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UPDATED

UNIFORMS, ACCESSORIES & MISCELLANEOUS EQUIPMENT (POLICE DEPARTMENT)

INVITATION TO BID

CITY OF LONG BEACH CITY MANAGER ATTN: CITY CLERK 333 West Ocean Boulevard, Plaza Level Long Beach, California 90802



CONTRACT NO.

This Invitation to Bid, together with THE NOTICE INVITING BIDS, the entire Bid (including Specifications), or any items(s) thereof, the signature page, Instructions to Bidders, General Conditions, Special Conditions, Bid Section, Addendums, and when required, CONTRACTOR'S BOND shall become the Contract upon its acceptance by the City Manager or designee on behalf of the City of Long Beach, Contractor will be provided with a copy of the executed Contract. All materials or services provided by the Contractor shall comply with the City Charter, and all applicable Federal, State and City Laws.

2. SERVICES TO BE PROVIDED BY THE CONTRACTOR:

Contractor shall upon acceptance of this Bid by the City, furnish the goods and services herein specified according to the terms and conditions set forth herein.

3. AMOUNT TO BE PAID:

BID NUMBER PA-01408

TO:

1.

The City shall pay Contractor for the goods or services as described in the section entitled "PAYMENT" in the Instructions to Bidders.

4. CHOICE OF ALTERNATE PROVISIONS; OPTIONS; NOTIFICATION:

When alternative provisions are requested, or options are offered, Contractor will be notified as to which provision, or option, is being accepted at the same time that he is notified that he is the successful Bidder.

5. DECLARATION OF NON-COLLUSION:

The undersigned certifies or declares under penalty of perjury that this Bid is genuine and not sham or collusive, or made in the interest or on behalf of any person or entity not herein named; that the Bidder has not directly or indirectly induced or solicited any other Bidder to submit a sham bid, or any other person or entity to refrain from bidding, and that the Bidder has not in any manner sought by collusion to secure to himself any advantage over other Bidders.

BIDDER MUST COMPLETE AND SIGN BELOW:

(Signature of Corporate Officers or persons authorized to sign bids and contracts on behalf of the Contractor – refer to page 2 Instructions Concerning Signatures.)

EXECUTED AT: Long Beach, CA C	ON THE	14th	DAY OF	November	, 20	11 .
CITY STATE				MONTH		
COMPANY NAME: Galls, an ARAMARK Company, LLC			_ TIN: _	(FEDERAL TAX IDE	NTIFICATION NUMB	ER)
STREET ADDRESS: 2789 Long Beach Boulevard CITY:		Long Be	ach	STATE:	<u>CA</u> ZIP:	90806
PHONE:(562) 424-4646	_ FAX:		(562) 424-4654			
S/	<u> </u>	Presiden	t			
(SIGNATURE) Larry Dismukes		dismuke	s-larry@galls.com	(TITLE)		
(PRINT NAME)			(1	EMAIL ADDRESS)		
S/						
(SIGNATURE)				(TITLE)		
(PRINT NAME)			(1	EMAIL ADDRESS)		
ALL SIGNATURES MUST BE NOTARIZED FOR ALL CO NO OUT-OF-STATE BID WILL BE CONSIDERED UN NOTARIES ÁRE NOT REQU	NLESS A	NOTARIA	L ACKNOWLED			
IN WITNESS WHEREOF the City of Long Beach has caused this contract to be ex of the date stated below.	ecuted as i	required by		ED AS TO FORM	-22	_ 20 12.
THE CITY OF LONG BEACH						
BY Director of Pimaficial Management	Da	te		MA	Deputy	9998/1999-00-1-20 ⁻⁰

Rev 06/26/07

BID NUMBER PA-01408

The City of Long Beach is committed to provide maximum opportunities for Disadvantaged, Minority, Women, Long Beach and Other Business Enterprises (DBEs, MBEs, WBEs, LBBEs and OBEs) to compete successfully in supplying our needs for products and services.

The following information is submitted regarding the Bidder:
Legal Form of Bidder:
Corporation State of
Partnership 🛛 State of
General 🗆 Limited 🗆
Joint Venture
Individual DBA
Limited Liability Company X State of Delaware
Composition of Ownership (more than 51% of ownership of the organization): OPTIONAL Ethnic (Check one):
🗆 Black 🛛 Asian 🔅 Other Non-white
🗆 Hispanic 🛛 🗆 American Indian 🔅 🗋 Caucasian
Non-ethnic Factors of Ownership (check all that apply):
Male Yes - Physically Challenged Under 65
Female I No – Physically Challenged Over 65
Is the firm certified as a Disadvantaged Business:
Has firm previously been certified as a minority-owned and/or woman-owned business enterprise by any other agency?
□ Yes 🛛 X No
Name of certifying agency:

INSTRUCTIONS CONCERNING SIGNATURES

Please use the proper notary form, which applies to your type of organization on all Bid documents, attachments and bonds requiring a signature by officers of your company.

NOTE: FAILURE TO COMPLY MAY RESULT IN DISQUALIFICATION OF YOUR BID.

INDIVIDUAL (Doing Business As)

- a. The only acceptable signature is the owner of the company. (Only one signature is required.)
- b. The owner's signature must be notarized if the company is located outside of the state of California.

PARTNERSHIP

- a. The only acceptable signature(s) is/are that of the general partner or partners.
- b. Signature(s) must be notarized if the partnership is located outside of the state of California.

CORPORATION

- a. Two (2) officers of the corporation must sign.
- b. Each signature must be notarized if the corporation is located outside of the state of California.

OR

- a. The signature of one officer or the signature of person other than an officer is acceptable if the Bid is accompanied by a certified corporate resolution granting authority to said person to execute <u>contracts</u> on behalf of the corporation.
- b. Signature(s) must be notarized if the corporation is located outside of the state of California.

LIMITED LIABILITY COMPANY

- a. The signature on the Bid must be a member or, if the Articles provide for a manager, must be the manager. (Only one signature is required.)
- b. Signature must be notarized if the company is located outside of the state of California.

THIS INFORMATION IS AVAILABLE IN AN ALTERNATIVE FORMAT BY CONTACTING 562-570-6362.

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UPDATED

BID NUMBER PA-01408 CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

County of Augette: On Nov 14, 2011 Before me, Manuel Faulleour, Nday under Compared ARRY Discovery Public Personally appeared ARRY Discovery Public Personally known to me - OR - proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument. WITNESS my hand and official seal. WITNESS my hand and official seal. MMBUY MULAUMA SIGNATURE OF NOTARY OPTIONAL Though the data below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent realiachment of the form. CAPACITY CLAIMED BY SIGNER DESCRIPTION OF ATTACHED DOCUMENT NDIVIDUAL CORPORATE OFFICER TITLE OF TYPE OF DOCUMENT PARTNER(S) LIMITED PARTNER(S) LIMITED ATTORNEY-IN-FACT RUSTEE(S) GUARDIAN/CONSERVATOR OTHER: DATE OF DOCUMENT SIGNER IS REPRESENTING: NAME OF PERSON(S) OR ENTITY(ES): SIGNER(S) OTHER THAN NAMED ABOVE	State of Kentucicy	
personally known to me - OR proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument. WITNESS my hand and official seal. WITNESS my hand and official seal. WITNESS my hand and official seal. OPTIONAL Though the data below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent reattachment of this form. CAPACITY CLAIMED BY SIGNER INDIVIDUAL COPTIONAL TITLE OF TYPE OF DOCUMENT INDIVIDUAL GORPORATE OFFICER TITURE(S) LIMITED GENERAL ATTORNEY-IN-FACT TRUSTEE(S) GUARDIAN/CONSERVATOR OTHER: DATE OF DOCUMENT SIGNER IS REPRESENTING: MMME OF PERSON(S) OR ENTITY(ES):	On <u>Nov 14, 2011</u> Before me,	•
person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument. WITNESS my hand and official seal. WITNESS my hand and official seal. WITNESS my hand and official seal. OPTIONAL Though the data below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent reattachment of this form. CAPACITY CLAIMED BY SIGNER DESCRIPTION OF ATTACHED DOCUMENT INDIVIDUAL CORPORATE OFFICER TITLE(S) PARTNER(S) LIMITED GENERAL ATTORNEY-IN-FACT TRUSTEE(S) GUARDIAN/CONSERVATOR OTHER: DATE OF DOCUMENT SIGNER IS REPRESENTING: NUMBER OF PAGES TITLE OF TOP DOCUMENT	Personally appearedLARM	24 DISMUKES NAME(S) OF SIGNER(S)
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NAME OF PERSON(S) OR ENTITY(IES):	SIGNER IS REPRESENTING.	-
		SIGNER(S) OTHER THAN NAMED ABOVE
	·	

INSTRUCTIONS TO BIDDERS

1. PREPARATION OF BID:

The preparation of the Bid, including visits to the Site prior to submittal of the Bid, shall be at the expense of Bidder. All prices and notations must be typewritten or written in ink. Any markings in pencil shall not form part of the Bid and shall be disregarded by the City. Any changes or corrections in the Bid must be initialed in ink by the person signing the Bid. Bidder shall state brand name or make of each item bid. If not bidding on item as described, the manufacturer's name and catalog number of the substitute must be given. Bidder shall also attach specifications and furnish other data to establish the suitability of the substitute. Bidder shall quote separately on each item. Bidder shall quote his lowest price and best delivery date as no changes are permitted after the bid opening. Cash discounts offered for payment within fourteen (14) days or less will not be considered when evaluating bids. No telephonic, telegraphic or fax Bids are acceptable.

NOTE: ALL PAGES OF THE INVITATION TO BID MUST BE RETURNED.

2. EXAMINATION OF BID:

Bidder is responsible for examining the Invitation to Bid and submitting its Bid complete and in conformance with these instructions.

3. CONDITIONS OF WORK:

Bidder shall carefully examine the Site to become fully informed regarding all existing and expected conditions and matters, which could affect performance, cost or time of the Work.

4. DISCREPANCIES IN BID DOCUMENTS:

If Bidder finds discrepancies in or omissions from the Invitation to Bid, if the intent of the Invitation is not clear, or if provisions of the Specifications restrict Bidder from bidding, he may request in writing that the deficiency(s) be modified. Such request must be received by the City Purchasing Agent at least five (5) working days before bid opening date. Bidders will be notified by Addendum of any approved changes in the Invitation to Bid.

5. ORAL STATEMENTS:

The City of Long Beach shall not be bound by oral statements made by any employee or agent concerning this Invitation to Bid. If Bidder requires specific information, Bidder must request it in writing and obtain a reply in writing from the City.

6. BRAND NAMES AND SPECIFICATIONS:

The detailed specifications and/or brand names stated are descriptive only and indicate quality, design and construction of items required. Offers will be considered to supply articles substantially the same as those described herein but with minor variations. Bidders must describe variations in the Bid. Substitute items must be equal in quality, utility and performance. The phrase "or approved equal" throughout the specifications means that the City in its sole and absolute discretion shall make the final determination whether or not the substitute items are equal.

7. AWARD:

Bid shall be subject to acceptance by the City for a period of three (3) months unless a lesser period is prescribed in the quotation by Bidder. The City reserves the right to award all items to one Bidder, or to award separate items or groups of items to various Bidders, or to increase or decrease the quantities of any item. Bidder may submit alternate prices or name a lump sum or discount conditional on two or more items being awarded to him. The City's purchases of goods and services are based on the City's actual needs and requirements. The City is obligated under this contract/purchase order to purchase and pay for only those goods and services that the City needs and requires, and that the City actually orders and receives. Any dollar amount identified as a "not to exceed:" amount in any City document is not a guaranteed payment amount to any contractor or service provider. Furthermore, the City may determine that its needs and requirements may be met by City labor or by a second contractor or service provider. An award is not a promise or guarantee of exclusivity.

Bidders are cautioned that comments and statements, whether oral or written, made by City employees regarding the validity of Bids, the waiver of deviations from Specifications, the possibility or probability of an award being made to a particular Bidder, and other similar matters are NOT binding on the City. Bidders should not order materials, obtain financing or take other actions based on such comments and statements. Only authorization of a Contract by the City Council or issuance of a Purchase Order is conclusive and binding on the City with respect to this Bid and its resulting Contract or Purchase Order. However, prior to authorization by the City Council or issuance of the Purchase Order, Bidders may rely on: (1) approval of an "equal" or "substitute" item which will be issued in writing, and (2) written notice of intent to award by the City Council, which is often issued prior to the authorization by the City Council so that a Bidder can order materials that have a long lead time.

8. PAYMENT:

Payment terms are NET/30 unless Bidder otherwise quotes. All Cash Discounts shall be taken and computed from the date of delivery or completion and acceptance of the material, or from date of receipt of invoice, whichever occurs last. Invoices must be submitted as specified at the time of shipping authorization. Partial payments may be made by the City on delivery & acceptance of goods and on receipt of Contractor's invoice.

In the event the Contract to be awarded hereunder, including specifications and other documents incorporated therein by reference, provides for the withholding of moneys by the City to ensure performance of such Contract, Contractor may deposit with the City, as a substitute for said withheld moneys, securities listed in Section 16430 of the California Government Code or bank or savings and loan certificates of deposit, or both, equivalent to the amount withheld, provided Contractor requests permission to make such substitution and bears all expenses in connection therewith.

9. SAFETY APPROVAL:

Where required by City Regulations, any items delivered must carry Underwriters Laboratories Approval or City of Long Beach City Safety Officer approval. Failure to so comply will be cause to reject Bid. Also, any equipment must conform with the Safety Orders of the California Division of Industrial Safety and OSHA regulations.

INSTRUCTIONS TO BIDDERS

10. PUBLIC WORK AND PREVAILING WAGES:

In the performance of public work under any Contract, Contractor shall comply with the provisions of Standard Specifications for Public Works Construction, latest edition, and City of Long Beach Amendments thereto. Where labor is required for public work as part of this Contract, Contractor shall pay no less than the prevailing wages set by the Director of the Department of industrial Relations of the State of California. A copy of the wage schedule can be obtained from the City Engineer.

The Director of Public Works of the City by and on behalf of the City Council has obtained from the Director of the Department of Industrial Relations of the State of California the general prevailing rate of per diem wages and the general prevailing rate of holiday and overtime work in the locality in which the public work is to be performed for each craft, classifications or type of workers needed to execute the Contract, and the same is on file with the City Engineer, 9th floor, City Hall, 333 W. Ocean Boulevard, Long Beach, California 90802. It shall be mandatory upon the Contractor to whom the Contract is awarded, and his Subcontractors to pay not less than the said prevailing rate of wages to all workers employed by Contractor or said Subcontractors in the execution of the Contract.

11. RIGHT TO REJECT:

The City reserves the right to reject at any time any or all Bids, or parts thereof, and to waive any variances, technicalities and informalities which do not impair the quality, utility, durability or performance of the items.

12. SAMPLES:

Samples of items when requested or required must be furnished to the City free of expense to the City and, if not destroyed by tests, will upon request be returned at Bidder's expense.

13. PRICES:

Prices shall be in accordance with those extended to other governmental agencies. In case of error in extension of prices, unit price will govern. All prices must be firm for the Contract term unless the City specifically provides for adjustment.

14. CITY'S POLICY FOR MINORITY AND WOMEN-OWNED BUSINESSES:

The City of Long Beach is committed to providing maximum opportunities for Disadvantaged, Minority, Women, Long Beach and Other Business Enterprises (DBEs, MBEs, WBEs, LBEs, and OBEs) to compete successfully in supplying our needs for products and services.

Please visit <u>http://www.longbeach.qov/diversity</u> for more information on the City's Diversity Outreach Program.

SUBCONTRACTORS

To assist the City in maintaining records of its Minority and Women Outreach Program, Bidder is requested to provide the following information. Answers are optional, and failure to answer will not disqualify Bid. If additional space is required, Bidder shall attach a separate sheet.

The following Minority- or Woman-owned subcontractors are to be utilized to provide equipment, material, supplies and/or services for this Contract requirement:

Company Name: _____

Address:

Commodity/Service Provided:

Circle appropriate designation: MBE WBE

Ethnic Factors Black Hispanic Asian	of ((Owne))	rship: (more than 51%) American Indian Other Non-white Caucasian	())	
Certified by: Valid thru:	· 	,		(,	
Dollar value	ofina	articir	pation: \$			

15. BID SUBMITTAL AND WITHDRAWAL OF BIDS:

Each Bid must be delivered to the location and received on or before the due date and time stated herein. Bids will not be accepted after the date and time stated herein. Bids may be withdrawn without prejudice providing the written request is received by the City Clerk no later than the time set for opening Bids. Withdrawals will be returned to Bidder unopened. Failure to respond to three (3) Invitations to Bid without reason may constitute cause to remove Bidder's name from the bidding list.

> SUBMIT TO: CITY OF LONG BEACH CITY CLERK 333 W OCEAN BLVD/PLAZA LEVEL LONG BEACH CA 90802

BID DUE DATE: November 3, 2011 TIME: 11:00 am

IF BIDDER HAS ANY QUESTIONS REGARDING THIS INVITATION TO BID PLEASE CONTACT THE FOLLOWING CITY PERSONNEL.

A. COMMERCIAL (TERMS AND CONDITIONS, ETC)

REGINA BENAVIDES	(562) 570-6164
BUYER	TELEPHONE NUMBER

B. TECHNICAL (SPECIFICATIONS, DRAWINGS, ETC.)

BILLY QUACH	(562) 570-5890
KAREN OWENS	(562) 570-7310
DEPARTMENT CONTACT	TELEPHONE NUMBER

16. BID OPENING PROCEDURES:

All Bids will be publicly opened and read at the date and time specified in Instructions to Bidders, item 15.

It is our policy **not** to release price information on these Bids until the department has reviewed them and award has been approved by the City Council and the City Attorney. At that time, the information becomes public. You are welcome to review the results at that time by calling the buyer that handled that Bid and setting up an appointment. Due to the large volume of Bids received, Bid results will **not** be given out by phone and information will not be faxed.

After the Purchasing Division has analyzed the Bids, the name of the <u>apparent</u> low Bidder will be posted on the Internet for a period of one (1) month, together with the rankings of the top three Bidders. These rankings will not contain price information.

CAUTION: Only the City Council has authority to make an award, and a contract is not in effect until the City Council makes an award and contract documents (including insurance and bonds) are signed, submitted and approved.

Bid protest procedures may be obtained from the Buyer. Protests must be submitted within seven (7) calendar days after the date of

the Bid opening.

17. INTER-AGENCY PARTICIPATION:

IF OTHER AGENCIES EXPRESS AN INTEREST IN PARTICIPATING IN THIS BID, WOULD YOU SUPPLY THE SAME ITEMS.

YES X NO

(If yes, any agency electing to participate in this Bid will order its own requirements without regard to the City of Long Beach. The City of Long Beach assumes no liability or payment guarantee on any units sold to participating agencies.)

18. AMERICANS WITH DISABILITIES ACT:

Contractor shall have and be allocated the sole responsibility to comply with the Americans with Disabilities Act of 1990 ("ADA") with respect to performance hereunder and contractor shall defend, indemnify and hold the City, its officials and employees harmless from and against any and all claims of failure to comply with or violation of the ADA as said claim relates to this Contract.

- 1. Acceptance of the offer contained in this Contract is expressly limited to the terms and conditions of such offer as herein stated.
- 2. No charges for taxes, transportation, boxing, packaging, crating or returnable containers will be allowed and paid by the City unless separately stated hereon. All sales, use, excise or similar taxes to be paid by the City must be itemized separately hereon and on invoices. The City is exempt from payment of Federal Excise Tax under Certificate No. 95-73 0502K and none shall be charged to the City.
- 3. The City's obligation to pay the sum herein stated for any one fiscal year shall be contingent upon the City Council of the City appropriating the necessary funds for such payment by the City in each fiscal year during the term of this Contract. For the purposes of this section a fiscal year commences on October 1 of the year and continues through September 30 of the following year. In the event that the City Council of the City fails to appropriate the necessary funds for any fiscal year, then, and in that event, the Contract will terminate at no additional cost or obligation to the City.
- 4. Contractor shall deliver the materials, equipment, supplies or services, or cause the work to be performed, within the time and in the manner specified in the Contract. Times and dates stated herein are of the essence. If at any time Contractor has reason to believe that deliveries will not be made as scheduled, written notice setting forth the cause of the anticipated delay shall be given immediately to the City. Deliveries must be prepaid. C.O.D. shipments will not be accepted.
- 5. The City reserves the right at any time to make changes in drawings and specifications, in methods of shipment and packaging and in place of delivery as to any articles covered by this Contract. In such event there will be made an equitable adjustment in price and time of performance mutually satisfactory to Contractor and the City; but any claim by Contractor for such an adjustment must be made within thirty (30) days of such change.
- 6. Contractor warrants that the goods, machinery or equipment delivered or the work performed hereunder shall conform to the specifications, drawings, samples or other description specified by the City and shall be fit and sufficient for the purpose intended, merchantable, of good material and workmanship, in good working order and free from defect or faulty workmanship for a period of ninety (90) days. When defective goods, machinery, or equipment or faulty workmanship is discovered which requires repair or replacement pursuant to this warranty, Contractor shall provide all labor, materials, parts and equipment to correct such defect at no expense to the City.
- 7. Contractor shall defend, indemnify and hold the City, its officials and employees harmless from any and all loss, damage, liability, demands, claims, causes of action, costs and expenses (including reasonable attorney' fees) for injuries to persons (including death) or damage or destruction of property connected with or arising from the negligent acts or omissions of Contractor, its officers, agents and employees in the performance of this Contract.
- 8. The City reserves the right to terminate this Contract at any time in whole or in part even though Contractor is not in default hereunder. In such event there will be made an equitable adjustment of the terms that is mutually satisfactory to the City and Contractor. Upon receipt of any notice of such termination, Contractor shall, unless such notice otherwise directs, immediately discontinue all work on the Contract and deliver, if and as directed, to the City all completed and partially completed articles, work in process and materials purchased or acquired for performance of the Contract. The provisions of this section shall not limit or affect the right of the City to terminate this Contract immediately upon written notice of breach.
- 9. The City reserves the right to cancel this Contract or any part thereof and reject delivery of goods if delivery is not undertaken and completed when specified and in accordance with specifications. Contractor shall be charged for any direct losses, but not any consequential damages, sustained by the City by reason of such delay or failure, excepting losses caused by a delay for reasons beyond Contractor's reasonable control. Direct losses shall include any costs to the city in excess of the Contract price of obtaining goods from other sources similar to those cancelled or rejected hereunder.
- 10. The City shall pay to Contractor the price(s) specified in the Contract on delivery of the materials, equipment, supplies or services and acceptance thereof by the City Manager or his designee, or upon completion of the work to be performed and accepted thereof, as specified in the Contract. Defective articles or articles not in accordance with the City's specifications shall be held for Contractor's instructions at Contractor's risk, and if Contractor so directs will be returned at Contractor's expense.
- 11. No return or exchange of material, equipment or supplies shall be permitted without written approval of the City Purchasing Agent.
- 12. All royalties for patents, or changes for the use of patents, which may be involved in any article to be furnished under this Contract shall be included in the Contract price.
- 13. In cases where a price subject to escalation has been agreed upon, the price escalation shall be shown as a separate item on the invoice. Unless an escalator clause has been shown as a specific part of this Contract Contractor shall not be entitled to reimbursement for costs incurred due to escalation.

- 14. All materials, supplies and equipment provided under this Contract shall be in full compliance with the Safety Orders and Regulations of the Division of Industrial Safety of the State of California, Title 8, California Code of Regulations (CAL/OSHA) and all applicable OSHA regulations as well as all other applicable California Code of Regulations. Contractor shall indemnify and hold the City, its officials, and employees harmless for, of and from any and all loss, including but not limited to fines, penalties and corrective measures, the City may sustain by reason of Contractor's failure to comply with said laws, rules and regulations in connection with the performance of this Contract.
- 15. Contractor shall keep confidential and not disclose to others or use in any way to the detriment of the City confidential business or technical information that the City may disclose in conjunction with this Contract or Contractor may learn as a result of performing this Contract.
- 16. This Contract shall not be assigned in whole or in part, nor any duties delegated without the City's prior written approval.
- 17. The remedies herein reserved shall be cumulative and additional to any other remedies at law or in equity. The waiver of any breach of this Contract shall not be held to be a waiver of any other or subsequent breach. The City's failure to object to provisions contained in any communication from Contractor shall not be deemed an acceptance of such provisions or a waiver of the provisions of this Contract.
- 18. This Contract shall not be amended or modified, except by written agreement signed by the parties and expressly referring to this Contract.
- 19. Contractor shall indemnify, hold harmless and defend the City, its officials and employees from any damage, claim, loss, cost, liability, cause of action or expense, including reasonable attorney's fees, whether or not reduced to judgment, arising from any infringement or claimed infringement of any patent, trademark or copyright, or misappropriation of confidential information or trade secrets of any third party and based on the manufacture, sale or use of goods, machinery or equipment supplied hereunder.
- 20. Contractor shall furnish further itemization and breakdown of the Contract price when requested by the City.
- 21. Contractor, in the performance of any work or the furnishing of any labor under this Contract, shall be considered as an independent contractor. Contractor, his agents and employees shall not be considered as employees of the City.
- 22. Contractor and subcontractor(s) shall not discriminate against any person in the performance of this Contract and shall comply with applicable federal, state and city equal employment opportunity laws, ordinances, rules and regulations. Contractor and subcontractor(s) shall not discriminate against any employee or applicant for employment or against any subcontractor on the basis of race, color, religion, national origin, sex, sexual orientation, AIDS, HIV status, age, disability, or handicap, subject to federal and state laws, rules and regulations.
- 23. Contractor shall comply with all applicable federal, state and local laws pertaining to the subject matter hereof.
- 24. Contractor shall submit samples of all documents that Contractor may require the City to execute to complete this transaction. By accepting these samples as part of the bid or by awarding the Contract to a Contractor who has submitted said samples, the City does not agree to the terms stated in said samples. This Invitation to Bid and Contractor's bid shall take priority over said samples and this Invitation and Contractor's bid shall become the Contract between the City and the Contractor.
- 25. All quantities stated herein are only ESTIMATES. The City reserves the right to increase or decrease these estimated quantities based on its actual needs and funds available.
- 26. The City reserves the right to exercise, at its option, an increase in expenditures by ten (10) percent annually, but the City does not guarantee such an increase.
- 27. Contractor shall cooperate with the City in all matters relating to taxation and the collection of taxes, particularly with respect to the self-accrual of use tax. Contractor shall cooperate as follows: (i) for all leases and purchases of materials, equipment, supplies or other tangible personal property totaling over \$100,000 shipped from outside California, a qualified Contractor shall complete and submit to the appropriate governmental entity the form in Appendix "A" attached hereto; and (ii) for construction contracts and subcontracts totaling \$5,000,000 or more, Contractor shall obtain a sub-permit from the California Board of Equalization for the Work site. "Qualified" means that the Contractor purchased at least \$500,000 in tangible personal property that was subject to sales or use tax in the previous calendar year.

In completing the form and obtaining the permit(s), Contractor shall use the address of the Work site as its business address and may use any address for its mailing address. Copies of the form and permit(s) shall also be delivered to the Purchasing Agent. The form must be submitted and the permit(s) obtained as soon as Contractor receives a notice of award. Contractor shall not order any materials or equipment over \$100,000 from vendors outside California until the form is submitted and the permit(s) obtained as soon as Contractor receives a notice of award. Contractor shall not order any materials or equipment over \$100,000 from vendors outside California until the form is submitted and the permit(s) obtained and, if Contractor does so, it shall be a material breach of the Agreement. In addition, Contractor shall make all purchases from its Long Beach sales office and the Long Beach sales office of its vendors if those vendors have a Long Beach office and all purchases made by Contractor under this Agreement which are subject to use tax of \$500,000 or more shall be allocated to the City of Long Beach. Contractor shall require the same form and permit(s) from its subcontractors.

Contractor shall not be entitled to and by signing this Contract waives any claim or damages for delay against City if Contractor does not timely submit these forms to the appropriate governmental entity. Contractor may contact Eugene Fong at 562-570-5023 for assistance with the form.

28. The California Integrated Waste Management Act (Public Resources Code, Sec. 40000 et seq.) requires governmental entities to achieve fifty (50) percent diversion of waste. In conjunction with the City's Integrated Resources Bureau, the City is currently developing an Environmentally Preferable Product (EPP) procurement plan. These guidelines enable the City Purchasing Agent to greatly expand procurement programs by moving beyond a singular consideration of "recycled-content". EPP procurement facilitates the purchase of products that qualify within a broad range of "environmentally preferable" criteria, such as: minimal packaging; energy savings; non-toxic; manufactured from sustainably-harvested materials. Contractor shall monitor products that fall within the EPP guidelines and document all criteria that qualifies the product as an EPP. Documentation from the manufacturer will be acceptable and may be required during the term of the Contract.

29. NOTICE TO BIDDERS REGARDING THE PUBLIC RECORDS ACT:

Responses to this Invitation to Bid become the exclusive property of the City of Long Beach. All Bids submitted in response to this Invitation to Bid are a matter of public record and shall be regarded as public records. Exceptions will be only those elements in each Bid that are defined by the Bidder as business or trade secrets and are marked as "Trade Secrets", "Confidential" or "Proprietary".

The City shall not be liable or responsible in any way for disclosure of any records not marked as "Trade Secrets", "Confidential" or "Proprietary". The City shall not be liable or responsible in any way for disclosure of any records so marked if disclosure is deemed to be required by law or by a court order.

- 30. THE FOLLOWING ADDITIONAL CONDITIONS APPLY ONLY IN CASES WHERE CONTRACTOR IS TO PERFORM WORK ON CITY PROPERTY:
 - A. If at any time during the progress of the Work, Contractor shall allow any indebtedness to accrue for labor, equipment or materials, or which may become a claim against the City, Contractor shall immediately upon request from the City pay such claim or indebtedness or cause such lien to be dissolved and discharged by giving a bond or otherwise and, in case of his failure so to do, the City may withhold any money due Contractor until such claim or indebtedness is paid or may apply such money toward the discharge thereof; or in such event the City may, at its option, declare this Contract to be terminated, take possession and control of the Work, and complete the same or cause the same to be completed according to the specifications. Contractor shall pay to the City the difference between the Contract price and the actual cost to the City in completing or causing the Work to be completed.
 - B. Contractor shall carry on the Work at its own risk until the same is fully completed and accepted and shall, in case of any accident, destruction or injury to the Work or materials before its final completion and acceptance, repair or replace the Work or materials so injured, damaged and destroyed, at his own expense and to the satisfaction of the City. When materials and equipment are furnished by others for installation or erection by Contractor, Contractor shall receive, unload, store and handle same at the Site and become responsible therefore as though such materials and equipment were being furnished by Contractor under the Contract.
 - C. Contractor shall procure and maintain at Contractor's expense for the duration of the Contract the following insurance against claims for injuries to persons or damage to property which may arise from or in connection with the performance of the Contract by Contractor, its agents, representatives, employees or subcontractors:
 - (1) Comprehensive General Liability: \$1,000,000 combined single limit for each occurrence or \$2,000,000 General Aggregate for bodily injury, personal injury and property damage, including products and completed operations coverage.

<u>The City, its officials, employees and agents shall be named as additional insureds as respects</u>: liability arising out of activities performed by or on behalf of Contractor; products and completed operations of Contractor; and premises owned, leased or used by Contractor.

- (2) Automobile Liability: \$500,000 combined single limit per accident for bodily injury and property damage covering owned, non-owned and hired vehicles.
- (3) Workers' Compensation as required by the California Labor Code and Employers Liability limits of \$1,000,000 per accident.

Any self-insurance program and self-insured retention must be separately approved in writing by the City.

Each insurance policy shall be endorsed to state that coverage shall not be cancelled by either party or reduced in coverage except after thirty (30) days prior written notice to the City.

Contractor shall maintain at its expense, until completion of performance and acceptance by City, from an insurer:

- a. Admitted (licensed) in the State of California with a current financial responsibility rating of A (Excellent) or better and a current financial size category (FSC) of V (capital surplus and conditional surplus funds of greater than \$10 million) or greater rating as reported by A.M. Best Company or equivalent, unless waived in writing by City's Risk Manager, or
- b. Non-admitted in the State of California with a current financial responsibility rating of A (Excellent) or better and a current financial size category (FSC) of VIII (capital surplus and conditional surplus funds of greater than \$100 million) or greater rating as reported by A.M. Best Company or equivalent, unless waived in writing by City's Risk Manager.

All coverages for Subcontractors shall be subject to the requirements stated herein and shall be maintained at no expense to the City.

Contractor shall furnish the City with certificates of insurance and original endorsements providing coverage as required above. The certificates and endorsements for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf.

Before any of Contractor's or Subcontractor's employees shall do any Work on the City's property, Contractor shall furnish the City with the required certificates evidencing that such insurance is being maintained. Such certificates shall specify the date when such insurance expires. Such insurance shall be maintained until after the Work under the Contract has been completed and accepted.

Such insurance as required herein or in any other documents to be considered a part hereof shall not be deemed to limit Contractor's liability under this Contract.

- D. Contractor shall defend, indemnify and hold harmless the City, its officials and employees from and against any and all liability for claims for bodily injury and property damage arising out of negligent acts, omissions or errors of any employee of Contractor at the Site.
- E. Contractor shall list the name and location of the place of business of each Subcontractor who will perform work, labor or services for Contractor, or who specially fabricates and installs a portion of the Work or improvement in an amount in excess of one-half of one percent of Contractor's total contract cost. The Subcontractor list shall be submitted with Contractor's Bid.

CONTRACT PERIOD

The Contract term shall be twelve (12) months from the date of award unless the City determines, in its sole discretion, that a later commencement date is necessary, in which case the City will notify the Contractor of such date upon award of the Contract.

FUTURE AMENDMENTS

The City reserves the right to change any portion of the work required, or amend such other terms and conditions that may become necessary. Any such revisions shall be accomplished by a written amendment to the contract and executed by the Contractor and the City.

It is agreed that if the City intends to renew this Contract, the City shall so notify the Contractor 90 days prior to the expiration date. If the Contractor proposes a price increase for a contract renewal, the Contractor shall be required to submit any price increases to the City Purchasing Agent for approval at least 60 days prior to expiration of the Contract. Said notice shall show item number, price, the Contract number, and purchase order number. The City reserves the right to accept or reject any price increase, and to cancel the renewal notice if price increases are not acceptable.

PRICE INCREASE:

- A. Shall not exceed 6 % during the first renewal period.
- B. Shall not exceed 6 % during the second renewal period.

No price increases will be allowed during the initial twelve-month contract period.

ADDENDUM

Bidders shall check the purchasing web page at <u>www.lbpurchasing.org</u> or contact the assigned buyer three (3) days prior to the bid closing date to inquire about and include any addenda incorporated into this bid. Failure to include any addenda with the bid will cause the bid to be rejected.

MANDATORY PRE-BID CONFERENCE

A Pre-Bid Conference shall be held for the purpose of answering questions. The meeting has been scheduled for **Wednesday**, **October 12**, **2011**, **at 9:00 am**. Said conference shall be held at the Long Beach Council Chambers, located at Long Beach City Hall, Lobby Level, 333 W. Ocean Blvd., Long Beach, CA 90802. <u>Failure to attend</u> the Pre-Bid Conference will disgualify the vendor from the bidding process.

BASIS OF AWARD

The City reserves the right to award portions of this bid to one or more Contractors.

Without limiting the power and authority with which it is vested, the City shall be the sole authority on determining the lowest responsible bidder, taking into consideration the experience of the bidder, references, operations, quality, fitness, capacity, and adaptability in respect to the requirements of these specifications for the services proposed by any bidder hereunder.

Award may be made to different Contractors for the categories listed below, or on an "all or none" basis to one Contractor. Bidder must provide a quote on all items within each section, or the bid for that section will be deemed not responsive.

Section F (Body Armor) may be bid independently of Sections A-E. [What does this mean? That a vendor can submit a bid only for Body Armor?]

SECTION A – Basic Uniform Issue SECTION B – Shoes and Boots SECTION C – Leather Goods and Accessories SECTION D – Miscellaneous Equipment SECTION E – Alterations / Repairs SECTION F – Body Armor

The award will be based on the unit prices given.

BOND PROVISIONS

N/A

SUPPLEMENTAL INFORMATION

Bidder must present evidence indicative of its ability to provide and sustain the specified material to the satisfaction of the City. Failure to include any of the following information requested below may cause bid to be deemed non-responsive.

- 1. **Client References:** Bidder shall furnish on a separate sheet of paper a list of five (5) current customers, including company name, street address, telephone number and contact person, for whom Bidder has provided similar items. The City intends to contact these customers to determine reliability, Bidder's performance, service and other information.
- 2. **Contact:** Bidder shall provide emergency and non-emergency contact persons for both during regular business hours and after business hours on a 24-hour basis.

3. **Facility Location:** Bidder shall provide the address of its store or distribution center, which must be located in Long Beach or within two miles of the city limits.

Bidder for Section F (Body Armor) may be located up to 40 miles away if vendor will be providing <u>on-site</u> fitting and delivery services at Police Department facilities.

Address of the nearest distribution center or store:

Store/Store Support Center (Distribution Center): 2789 Long Beach Blvd. Long Beach, CA 90806

4. **Subcontractor for Repairs and Alterations:** Bidder shall make available the services of a subcontractor for uniform and accessory repair and/or miscellaneous alterations, if necessary. Employees will be able to leave and pick up all repaired/altered items at Bidder's place of business.

Please provide subcontractor's name, address, phone and their contact person:

Galls Uniform Center 1249 W. Katella Ave. Orange, CA 92867

Contact Phone: (714) 633-3880 Contact Name: Mike Sirianni

- 5. **Illustrative and Technical Data:** Bidder shall submit illustrative and technical data on items to be furnished. If quoting an alternate, a data sheet must be submitted with bid. FAILURE TO PROVIDE SUCH DATA MAY DISQUALIFY BID.
- 6. **Catalogs and Miscellaneous Purchases:** Bidder shall submit one copy of its general or master catalog with bid. The Police Department shall be authorized to purchase miscellaneous items up to a maximum of \$1,000 per order. The catalog shall be used to purchase items that are not specifically listed in the bid.

Upon award of the Contract, the Contractor shall supply additional catalogs to various City departments as requested. Please specify percentage discount allowed the City: 5-20 %.

Catalog Dated: Galls Fall 2011 (Enclose Copy)

7. **On-Line Ordering and Tracking:** Bidder shall, at no additional charge, design an on-line ordering system to better facilitate individual employee and bulk purchasing, and better tracking of purchases and purchase data, to be provided to the Police Department. System shall allow for customized tracking by

employee name and/or employee ID #, billing index code, division, product number, purchase order # and date range. System shall also allow for e-mail notification to employee when order is complete. Online system shall be operational within 90 days of award of contract. A demonstration of sample and/or proposed system will be requested as part of the bid process.

- 8. **Reporting:** Bidder shall provide complete purchase data reports to the City on a monthly, quarterly, and yearly basis with the ability to generate reports on demand. Report options shall include but not be limited to: the names and/or employee #s of individuals obtaining uniform items, quantities, manufacturer model and/or item numbers, pricing, cost totals, billing index codes, and other reasonable purchasing data reports as requested. This shall be provided at no additional charge. Copies of complete purchasing data from the commencement of the contract will be provided to the City if the contract is terminated. Sample reports and/or a live demo will be requested as a part of the bid process.
- 9. **Samples: Bidder** may be required to provide samples of uniforms and related accessories upon request by the City, for use as "Control Samples" throughout the duration of the Contract. The samples must be labeled with bidder's name, brand name and product number and must meet specification requirements. Materials and garments shall be subject to approval and acceptance by the City. FAILURE TO SUBMIT REQUESTED BID SAMPLES WILL DISQUALIFY BID.

Samples will be available for pick-up by Bidder 30 calendar days after bid due date, unless otherwise notified. Samples not picked up within 60 calendar days after bid due date will be discarded. The City shall not be held responsible for damage of samples due to testing or otherwise.

LICENSE

Bidder must have City of Long Beach Business License and must obtain all required permits.

Long Beach Business License Number: Account: BU20335310 (1474)

*Required upon notification of award.

Signature:

SCOPE OF SERVICE (Uniforms, Accessories, and Miscellaneous Equipment)

The City of Long Beach is seeking a supplier of uniforms, accessories and miscellaneous equipment. The selected Contractor shall provide uniforms, accessories and miscellaneous equipment for Police personnel.

The Contractor's bid for uniforms and accessories shall include the measurement, tailoring, alteration, fitting, sewing on of emblems and pressing by qualified personnel prior to delivery. The Contractor will conform its tailoring, fitting and alterations to standards provided by the Police Department.

All items listed in Bid Section shall be delivered and fitted on an "as needed" basis, pursuant to a written request from authorized personnel of the City of Long Beach. The City does not guarantee that all items listed herein will be ordered during the contract period.

All garments and accessories to be furnished hereunder shall be new and unused and fabricated from new materials, and meet the Long Beach Police Department's Uniform and Accessories Specifications and Requirements, as set forth below.

LONG BEACH POLICE DEPARTMENT'S UNIFORM AND ACCESSORIES SPECIFICATIONS AND REQUIREMENTS

- A. The Contractor shall provide trained personnel, when required, for measuring and fitting of uniforms at the Police Academy, 7290 E. Carson Blvd., Long Beach; Public Safety Building, 400 West Broadway, Long Beach, and/or other department locations in the City of Long Beach. A minimum inventory shall be maintained for each type of shirt and trouser in an assortment of sizes, plus a reasonable quantity of replacement items making up a complete uniform including leather goods, accessories and other equipment listed.
- B. Determination of the above qualifications and requirements shall be made by the Chief of Police, City Purchasing Agent or their designees. Their decision shall be final.
- C. [The Contractor shall provide quote(s) on specific brand name items and product numbers as referenced in the bid. Once the Contract has been awarded, any item substituted as an "approved equal" for a specified brand shall require prior written approval from the Police Department. The Contractor shall bear all expenses and costs related to delivery of unauthorized and unapproved items shipped, delivered, or received by the City. Substitution of an "approved equal" or any other unauthorized uniform or equipment item by the Contractor without specific approval from an authorized City Agent shall be grounds for immediate cancellation of the contract.

- D. Upon the approval of the Chief of Police or his designee, the Police Department may add new items during the contract period to address issues such as changing operational needs, updated safety standards, and/or replacement of discontinued items. The Chief of Police, or his designee, shall provide new product specifications to the City Purchasing agent on a quarterly basis to be included in a contract amendment.
- E. For items listed in the "Summary of Bid Items" that require samples, such as patches, badges, emblems, and insignias, the Contractor shall provide quote(s) on industry standard design according to the specified description. All emblems shall be supplied by the Contractor. The City shall supply the Contractor with necessary artwork.

Attachment A contains photocopied sample emblems.

- F. Where any discrepancies exist between these specifications and the "Long Beach Police Department's Uniform and Accessories Specifications and Requirements," the specified brands stated in the bid shall be the City's standard for quality, function and durability.
- G. Questions regarding the Long Beach Police Department Uniform, Accessories and Miscellaneous Equipment Specifications and Requirements shall be directed to:

Commander Billy Quach	(562) 570-5890
Administrator Karen Owens	(562) 570-7310

H. Questions regarding bid requirements and other items in the bid shall be directed to:

Regina Benavides

(562) 570-6164

MEASUREMENT AND TAILORING OF UNIFORM GARMENTS

The Contractor shall measure each individual and issue a set of uniforms specifically for that individual, providing the proper size and adequate fit for each garment and accessory.. Initial purchase of Uniforms and accessories shall include the measurement, tailoring, alteration, fitting, sewing on of emblems and pressing by qualified personnel prior to delivery. No additional payment will be made for these services.

ALTERATION AND REPAIR SERVICE

After the initial purchase and fitting of uniforms and other clothing items, alterations or repairs may be required. The Contractor must provide alteration and repair services to previously purchased uniforms throughout the duration of the Contract. The Contractor must provide and submit with the bid a price list with all costs associated with alterations and repairs of uniforms and other clothing garments.

EMERGENCY AND NEW HIRE GARMENT REQUIREMENTS

The Contractor shall provide uniforms for new City employee(s) within 14 days after the Contractor receives notification to do so.

The Contractor shall provide emergency garments on a temporary basis to City employees if required. (Example: New employee waiting for new uniform to be ordered or special size not in stock.)

Will the Contractor supply emergency garments at "No Charge"?

YES ____ NO _____

If no, provide cost(s) to supply garments \$__N/A_____

WARRANTY

The Contractor shall guarantee the clothing, accessories and equipment against defective workmanship and materials for a minimum period of twelve (12) months after the date of acceptance by the City. Should any failure occur within the guarantee period, the Contractor shall replace, without cost to the City, any clothing, accessories, or equipment that is defective or repair the same, at the Contractor's own cost and expense.

DELIVERY/SHIPPING

DELIVERY

Delivery shall include all delivery and unloading charges to the various Departments of the City. Delivery is desired in accordance with the specifications. The City reserves the right to make award based on delivery time quoted. Delivery shall be made within five (5) working days after receipt of order for uniforms, accessories and miscellaneous equipment normally stocked. If the primary vendor fails to provide regularly stocked items within the above timeline, the secondary vendor may be utilized for procurement of the items requested. Special Order uniform items (excluding body armor) shall be provided within 30 days of request and written/e-mail notice must be provided to the Police Department for tracking purposes. Delivery for Special Order items exceeding 30 days may be grounds for utilization of secondary vendor.

WILL CALL

The Contractor shall be available during normal business hours, Monday through Friday, for delivery and will call. During the term of the Contract, purchases may be considered an emergency and, therefore, "Will Call" provisions and Overnight/Next Day Delivery must be provided by the Contractor. Due to the 24/7 work schedule within the Police Department, the Department may periodically request pre-arranged dates/times outside of normal business hours for "After Hours" fitting and service,

What are your normal business hours? ______a.m. - _____5:00 _____p.m.

"Will Call" items shall be available for pick-up within four (4) hours after order.

Do you have these "Will Call" capabilities? YES X NO

Will you provide "Overnight" or "Next Day" delivery? YES X NO

Additional charge for "Overnight" or "Next Day" delivery: \$ Standard Fed Ex

Will you provide pre-arranged "after hours" service, if requested? YES X NO

Additional charge for "After Hours" service: \$ 0.00

ADEQUATE STOCK

The Contractor shall maintain adequate stock of uniforms, accessories and miscellaneous equipment to accommodate City employee's needs, including emergencies, new hires and fill-in orders, as needed by the City, throughout the length of the Contract. Failure to maintain adequate stock will be deemed a breach and may result in termination of the Contract.

The City may inspect the Contractor's facilities to determine if sufficient inventory of all required uniforms and accessories are maintained in order to meet the City's required

delivery schedule of five (5) working days. City's evaluation of the Contractor's site and inventory, after inspection, will be a factor in determination of award.

MINIMUM ORDERS

No "minimum orders" are permitted. Bids indicating a minimum order will be rejected.

ALTERNATES OR EXCEPTIONS

Whenever material or equipment is specified using a brand name or the name of a particular supplier, the specifications are intended to establish the type, function, and quality required. **If quoting an "equal" item, Bidder shall submit all data supporting its claim that material or equipment is an "equal" by Tuesday, October 18, 2011 at 11:00 am.** Failure to provide the supporting data may disqualify bid. The list of approved equals will be posted as an addendum by Tuesday, October 25, 2011, at 3:30 pm. Any bids that include items not listed on the bid specifications or on the approved equal list will not be accepted.

The phrase "or approved equal" means that the City Purchasing Agent or his designee shall make the determination, in his sole discretion, whether or not material or equipment offered as an "equal" is the same in form, function, performance, reliability, quality, and features as the brand name or product from a particular supplier.

Bidders Acknowledge and agree that use of an approved equal creates a risk that the material or equipment may not actually meet the functional and performance requirements when used under field conditions. Bidders further acknowledge and agree that the City's approval of an "approved equal" product does not relieve the Contractor from its duty to meet the functional and performance requirements in the Specifications so that the Contractor may ultimately be required to replace the "approved equal" product with the material or equipment that was originally specified by brand name or by the name of a particular supplier, at no additional cost to the City, if the City makes a request for replacement. By submitting a bid, Bidder accepts these risks and the liability associated with these risks, and waives all claims against the City for costs related to supplying replacements.

MISCELLANEOUS ITEMS

Miscellaneous items as listed in Bidder's catalog may be procured in an amount not to exceed \$1000 per order. No additional items shall be purchased without the authorization of the City.

CITY DEPARTMENTS' PURCHASE AUTHORIZATION

The items herein listed in the "Summary of Bid Items" make up the majority of uniforms for Police personnel needed by the City.

Upon proper identification as Long Beach Police personnel, the Contractor shall sell replacement clothing or equipment at the City's Contract prices. The Contractor shall furnish only the Contract items specified and shall not substitute different, or a lesser quality of materials than was originally bid. Violation of this term may result in cancellation of the contract for cause.

The only exception to the above condition will be if the employee is seeking to purchase a uniform or equipment item of equal or greater value that, although not specified in the contract, has been approved as a substitute item. The employee shall be allowed to personally pay the difference in cost (if greater) between the specified and the substitute item. The contractor will track and report all substitute item purchases, making that information available to the City on a periodic basis as a part of their regular reporting.

Other than uniforms, insignias, badges, emblems and patches relating to the departments making a purchase, the Police Department may purchase any and all items listed in the Bid according to the department's needs. Contractor may not sell Police Department uniforms to any other department or any other group or individual. Proper identification and authorization must be presented by Police personnel to the Contractor at the time of order placement, pick-up and delivery.

BLANKET PURCHASE ORDER (BPO)/AUTHORIZED PERSONNEL

A Blanket Purchase Order (BPO) will be sent to the Contractor by the City Purchasing Agent. City personnel authorized to make releases (purchase orders) against the BPO will be indicated on the BPO. Shipment and/or services shall be made against the BPO release number. Releases shall be allowed only if the appropriate BPO number is indicated on the BPO release issued by authorized personnel in the Department. The Contractor must reference BPO release number and not the BPO number on all invoices.

PAYMENT FOR SERVICES

The Contractor shall **submit original invoices to the City of Long Beach, Accounts Payable, 333 W. Ocean Blvd., 6th Floor, Long Beach, CA 90802**, and one copy to the representative of the Police Department making the purchase. Each invoice shall include department, employee name and garment identity numbers. The Contractor shall not invoice for goods, materials, or supplies before merchandise has been shipped or delivered. Payment will not be authorized until merchandise has been received.

LIQUIDATED DAMAGES

Time is of the essence. If delivery is not completed by the time stated previously for delivery, the Contractor acknowledges and agrees that such delay would seriously affect the public welfare and the operation of the City and that damages for such delay would be impracticable or extremely difficult to determine. The parties agree that the sum of \$100 per day for each day of delay for each unit shall be fixed as liquidated damages (and not as a penalty or forfeiture for breach). Liquidated damages shall apply where delivery is delayed beyond the time stated and where delivery of materials to replace materials deemed substandard or nonconforming by the City is delayed beyond the time specified for such replacement.

If the Contractor is prevented or delayed in the work required to be done hereunder by changes in the work or by any default, act, or omission of the City, or by strikes, fire, act of God, or by the inability to obtain materials, equipment, or labor due to Federal Government restrictions, then the time of completion shall be extended for such period as may be agreed between the City and the Contractor. The City may, at the time of acceptance of the work, waive liquidated damages which may have accrued for failure to complete on time due to any of the above reasons after hearing evidence to the reasons for such delay and making a finding as to the cause of same.

DEFAULT BY THE CONTRACTOR / TERMINATION

Notwithstanding anything to the contrary in the Purchase Order, the City may terminate this Contract without liability for damages when, in the City's sole opinion, the Contractor is not diligently performing or otherwise not complying in good faith with the Contract, has become insolvent, has assigned or subcontracted any part of the work without the consent of the City, or has otherwise defaulted in performance of the Contract, and has not otherwise cured such default after a period of ten (10) days notice given by the City to do so.

CONTRACT ENFORCEMENT

The Long Beach Police Department intends to award a Primary and Secondary vendor for this contract. The Primary vendor will be contacted for all uniform order requests for the duration of the contract term. If the Primary vendor is not able to supply the requested order for any given reason, the Secondary vendor will be contacted to complete the order request. The Long Beach Police Department does not guarantee that the full amount awarded to the Primary and Secondary vendor will be expended.

The Contractor or its authorized representative shall meet periodically, at the discretion and convenience of the City, with an authorized representative of the City to address any problems or other issues. All scheduled and regular service functions shall be completed prior to this meeting.

The City reserves the right to perform inspections at any time for the purpose of monitoring service performance. The Contractor shall cooperate with the City representative(s) in the review and monitoring of the Contractor's performance, records and procedures.

At the request of the City, the Contractor, or its appropriate representative, shall attend meetings as deemed necessary by the City, for the purposes of orientation, information, amendments to the Contract and description of City policies and procedures.

In the event the City commences legal proceedings for the enforcement of the Contract, and is the prevailing party, the City shall be entitled to an award of attorney's fees and costs incurred in the action.

LAWS AND REGULATIONS

The Contractor shall conduct all aspects of its operation in compliance with all local, state and federal laws and regulations.

The Contractor shall immediately inform the City of any investigation, citation or legal action by any state or federal agency related to the Contractor's obligations under this Contract, and shall defend, indemnify and hold the City, its officials and employees harmless from all liability, claim, cause of action, loss, fines, penalties, corrective measures, costs, and expenses (including attorney's fees) the City may sustain by reason of the Contractor's failure to comply with any state or federal law, regulation or rule.

SUBCONTRACTING

No performance of this Contract or any portion thereof may be assigned or subcontracted by the Contractor without the express written consent of the City. Any attempt by the Contractor to assign or subcontract any performance of the terms of this Contract without said consent shall be null and void and shall constitute a default under this Contract. In the event of such a default, the City may immediately terminate this Contract without liability for damages.

If the City consents to assignment or subcontracting, each term and condition of this Contract shall extend to and be binding on and inure to the benefit of the assignees, successors and administrators of the respective parties.

If the City consents to subcontracting, the Contractor shall include in all subcontracts the following provision: "This Contract is a subcontract under the terms of a prime Contract with the City of Long Beach. All provisions of that prime Contract shall apply to this subcontract."

The Contractor shall indemnify, defend, and hold harmless the City and its employees from any and all liability arising or resulting from the employment of any subcontractors and their employees in the same manner as for the Contractor's own employees.

CONFLICT OF INTEREST

The Contractor represents and warrants that no City employee whose position in the City enables him/her to influence the award of the Contract or any competing Contract, and no spouse or economic dependent of such employee is or shall be employed in any capacity by the Contractor herein, or does or shall have any direct or indirect financial interest in this Contract.

VALIDITY

The invalidity, unenforceable or illegality of any provision of the Contract shall not render the other provisions invalid, unenforceable, or illegal.

CONTRACT AGREEMENT COST SECTION

BID TO FURNISH AND DELIVER UNIFORMS AND RELATED ACCESSORIES FOR THE CITY OF LONG BEACH POLICE DEPARTMENTS.

WE ARE PLEASED TO SUBMIT OUR BID IN ACCORDANCE WITH THE CITY OF LONG BEACH INVITATION TO BID, SPECIFICATIONS AND TERMS AND CONDITIONS TO FURNISH AND DELIVER THE FOLLOWING EQUIPMENT, MATERIAL, SUPPLIES OR SERVICES FOB DESTINATION CITY OF LONG BEACH. SALES TAX: UNIT AND EXTENSION PRICES STATED HEREIN SHALL NOT INCLUDE SALES TAX.

SUMMARY OF BID ITEMS

SECTION A - BASIC UNIFORM APPAREL				
I. UNIFORM SHIRTS (Burlington Raeford Mill must be used for all wool items)				
en en en fan de fan Fan de fan de	Manufacturer & Style No.	Unit Price		
POLICE OFFICER				
Flying Cross #320W9196Z, men's long sleeve, with zipper, , 100% wool (17 oz), Burlington Raeford Mill LAPD navy (8818)	Flying Cross #320W9196Z	\$ 80.25		
Flying Cross #670R9196Z, men's short sleeve, with zipper, 100% wool (17 oz), Burlington Raeford Mill LAPD navy (8818)	Flying Cross #670R9196Z	\$ 72.05		
Flying Cross #220W9196Z, women's long sleeve, with zipper, 100% wool (17 oz), Burlington Raeford Mill LAPD navy (8818)	Flying Cross #220W9196Z	\$ 70.95		
Flying Cross #270R9196SZ, women's short sleeve, with zipper, 100% wool (17 oz) Burlington Raeford Mill LAPD navy (8818)	Flying Cross #270R9196SZ	\$ 65.15		
Flying Cross #UD70R9586Z, men's short sleeve, with zipper, 100% wool (10 oz/summer weight) Burlington Raeford Mill LAPD blue/#30	Flying Cross #UD70R9586Z	\$ 50.05		
Flying Cross #UD170R9586Z, women's short sleeve, with zipper, 100% wool (10 oz/summer weight) Burlington Raeford Mill LAPD blue/#30	Flying Cross #UD170R9586Z	\$ 40.45		
Flying Cross #38W7886ZB, men's conventional collar, long sleeve, with zipper, 100% textured polyester, navy blue (86),	Flying Cross #38W7886ZB	\$ 30.65		
Flying Cross #238W7886ZB, women's conventional collar, long sleeve, with zipper, 100% textured polyester, navy blue (86),	Flying Cross #238W7886ZB	\$ 30.65		

SECTION A (continued)	Manufacturer & Style #	Unit Price
Flying Cross #88R7886-2Z, men's conventional collar, short sleeve, with zipper, 100% textured polyester, navy blue (86),	Flying Cross #88R7886-2Z	\$ 27.35
Flying Cross #288R7886-2Z, women's conventional collar, short sleeve, with zipper100% textured polyester, navy blue (86)	Flying Cross #288R7886-2Z	\$ 27.35
Blauer #5273L-2, men's long sleeve Super Shirt, with zipper, 100% wool (16.5 oz), Burlington Raeford Mill – LAPD navy (8818)	Blauer #5273L-2	\$ 81.95
Blauer #5273L-2W, women's long sleeve Super Shirt, with zipper, 100% wool (16.5 oz), Burlington Raeford Mill – LAPD navy (8818)	Blauer #5273L-2W	\$ 69.65
Blauer #5273S-2, men's short sleeve Super Shirt, with zipper, 100 % wool (16.5 oz), Burlington Raeford Mill – LAPD navy (8818)	Blauer #52738-2	\$ 73.05
Blauer #5273S-2W, women's short sleeve Super Shirt, with zipper, 100 % wool (16.5 oz), Burlington Raeford Mill – LAPD navy (8818)	Blauer #5273S-2W	\$ 61.95
DISPATCHERS/RECRUITS/STORE KEEPER		
Lion #1232, long sleeve, 65/35 Poly/Cotton with Badge Tab, Navy blue, SM-2XL,	Lion #1232	\$ 22.95
Lion #1532, short sleeve, 65/35 Poly/Cotton with Badge Tab, Navy blue, SM-2XL,	Lion #1532	\$ 24.95
SPECIAL SERVICES OFFICER		
Flying Cross #38W7804Z, men's conventional collar, long sleeve, with zipper, 00% textured polyester, tan,	Flying Cross #38W7804Z	\$ 37.05
Flying Cross #126R7804Z, women's conventional collar, long sleeve, with zipper, 100% textured polyester, tan,	Flying Cross #126R7804Z	\$ 31.35
Flying Cross #88R7804Z men's conventional collar, short sleeve, with zipper, 100% textured polyester, tan	Flying Cross #88R7804Z	\$ 33.05
Flying Cross #178R7804Z women's conventional collar, short sleeve, with zipper, women's, 100% textured polyester, tan	Flying Cross #178R7804Z	\$ 27.95
Flying Cross #324N5603Z men's long sleeve, with zipper, 35% cotton, 65% Dacron polyester, tan	Flying Cross #324N5603Z	\$ 24.45
Flying Cross #224N5603Z women's, long sleeve, with zipper, 35% cotton, 65% Dacron polyester, tan	Flying Cross #24N5603Z	\$ 24.45
Flying Cross #674S5603Z men's short sleeve, with zipper, 35% cotton, 65% Dacron polyester, tan	Flying Cross #674S5603Z	\$ 22.25
Flying Cross #274S5603Z women's, short sleeve, with zipper, cotton, polyester, tan	Flying Cross #274S5603Z	\$ 22.25
Flying Cross #69R6604Z men's short sleeve, with zipper, tropical weave (permanent		
crease), tan, polyester/rayon	Flying Cross #69R6604Z	\$ 33.25
Flying Cross #153R6604Z women's short sleeve, with zipper, tropical weave (permanent		
crease), tan, polyester/rayon	Flying Cross #153R6604Z	\$ 33.25

SECTION A (continued)	Manufacturer & Style #	Unit Price
Flying Cross #19W6604Z men's long sleeve, with zipper, tropical weave (permanent	Flying Cross #19W6604Z	\$ 36.35
crease), tan, polyester/rayon Flying Cross #103W6604Z women's long sleeve, with zipper, tropical weave (permanent		······································
crease), tan, polyester/rayon	Flying Cross #103W6604Z	\$ 36.35
Elbeco #4532, men's shirt, long sleeve, 65/35 Polyester/Cotton Twill, neck sizes 14-17.5,		
tan	Elbeco #4532	\$ 21.75
Elbeco #4532-OS, men's shirt, long sleeve, 65/35 Polyester/Cotton Twill, neck sizes 18-		
20. tan	Elbeco #4532-OS	\$ 24.25
Elbeco #4533, women's shirt, long sleeve, 65/35 Polyester/Cotton Twill, chest sizes 28-	711 // 520	\$ 18.35
46, tan	Elbeco #4533	\$ 18.35
Elbeco #4533-OS, women's shirt, long sleeve, 65/35 Polyester/Cotton Twill, chest size	Elbeco #4533-OS	\$ 21.55
48, tan	Elbeco #4530	\$ 17.45
Elbeco #4530, men's shirt, short sleeve, 65/35 Polyester/Cotton Twill, sizes S-XL, tan	Elbeco #4550	\$ 17.45
Elbeco #4530-OS, men's shirt, short sleeve, 65/35 Polyester/Cotton Twill, sizes 2XL-4XL,	Elbeco #4530-OS	\$ 19.45
tan Tan	E10ec0 #4350-03	ψ 17.45
Elbeco #4531, women's shirt, short sleeve, 65/35 Polyester/Cotton Twill, chest sizes 28-	Elbeco #4531	\$ 14.75
46, tan	Elbeco #4551	\$ 14.75
Elbeco #4531-OS, women's shirt, short sleeve, 65/35 Polyester/Cotton Twill, chest sizes	Ellerer #4521 OS	\$ 17.25
28-46, tan	Elbeco #4531-OS	ψ 17.23
POLICE SERVICES SPECIALIST/CADET		
Flying Cross #95R6625Z tropical weave, men's, permanent crease, short sleeve, with		
zipper, 65% polyester, 35% rayon, light blue	Flying Cross #95R6625Z	\$ 32.75
Flying Cross #45W6625Z, tropical weave, men's, permanent crease, long sleeve, with		
zipper, 65% polyester, 35% rayon, light blue	Flying Cross #45W6625Z	\$ 36.65
Flying Cross #152R6625Z, tropical weave, women's, permanent crease, short sleeve,		
with zipper, 65% polyester, 35% rayon, light blue	Flying Cross #152R6625Z	\$ 32.75
Flying Cross #102W6625Z, tropical weave, women's, permanent crease, long sleeve,		
with zipper, 65% polyester, 35% rayon, light blue	Flying Cross #102W6625Z	\$ 36.65
Flying Cross #33W7845Z, men's, long sleeve, with zipper 100 % polyester, light blue	Flying Cross #33W7845Z	\$ 30.65
Flying 126R7845Z, women's long sleeve, 100 % polyester, with zipper, light blue	Flying Cross #126R7845Z	\$ 30.65
Flying Cross #85R7845Z, men's, Short sleeve, 100 % polyester, with zipper, light blue	Flying Cross #85R7845Z	\$ 27.75
Flying Cross #176R7845Z, women's, short sleeve, 100% polyester, with zipper, light blue	Flying Cross #176R7845Z	\$ 27.75

SECTION A (continued)	Manufacturer & Style #	Unit Price
VOLUNTEERS (SPP PROGRAM)		
Flying Cross #95R6600Z, tropical weave, men's, permanent crease, short sleeve, with zipper, 65% polyester, 35% rayon, white	Flying Cross #95R6600Z	\$ 32.45
Flying Cross #45W6600Z, tropical weave, men's, permanent crease, long sleeve, with zipper, 65% polyester, 35% rayon, white	Flying Cross #45W6600Z	\$ 36.55
lying Cross #152R6600Z, tropical weave, women's, permanent crease, short sleeve, with zipper, 65% polyester, 35% rayon, white	Flying Cross #152R6600Z	\$ 32.45
Flying Cross #102W6600Z, tropical weave, women's, permanent crease, long sleeve, with zipper, 65% polyester, 35% rayon, white	Flying Cross #102W6600Z	\$ 36.55
ALTERNATIVE UNIFORM SHIRTS		
Elbeco #703JLB Response Tactical Duty Shirt, long sleeve, Nomex, black (Homeland Security Unit)	Elbeco #703JLB	\$ 93.15
5.11, #72002-019 Rip-stop, Cross-stitch design, long sleeve, BDU, black (for SWAT and Boat Patrol)	5.11 #72002-019	\$ 34.25
5.11, #72002-190 Rip-stop, Cross-stitch design, long sleeve, BDU, green (for SWAT)	5.11 #72002-190	\$ 34.25
5.11 #71175-162 TacLite Pro Shirt, 65% polyester/35% cotton, tan (proposed – Jail)	5.11 #71175-162	\$ 34.25
5.11, #72002-175 Rip-stop, Cross-stitch design, long sleeve, BDU, camouflage (for SWAT snipers only)	5.11 #72002-175	\$ 31.45
Propper #F545238 -001, Rip-stop, Cross-stitch design, long sleeve, BDU black (for SWAT and Boat Patrol)	Propper #F545238001	\$ 19.95
Propper #F545238-055, Rip-stop, Cross-stitch design, long sleeve, BDU, green (for SWAT)	Propper #F545238055	\$ 19.95
Blauer 6013LS-2 Class BDU Shirt, 65% polyester/35% cotton rip-stop, unisex, Black (11)	Blauer #6013LS-2	\$ 43.85
Blauer 6013LS-2 Class BDU Shirt, 65% polyester/35% cotton rip-stop, unisex, OD Green (28)	Blauer #6013LS-2	\$ 43.85
Blauer 6013LS-2 Class BDU Shirt, 65% polyester/35% cotton rip-stop, unisex, Navy (04),	Blauer #6013LS-2	\$ 43.85
Blauer 6013LS-2 Class BDU Shirt, 65% polyester/35% cotton rip-stop, unisex, Multi-Cam (39),	Blauer #6013LS-2	\$ 58.75
Tru Spec #1298, 24/7 TRU Long Sleeve Shirt, 65% polyester/35% cotton, Multicam (SWAT)	TruSpec #1298	\$ 34.25
Tru Spec #1288, 24/7 TRU Long Sleeve Shirt, 65% polyester/35% cotton, black (SWAT)	TruSpec #1288	\$ 27.75

SECTION A (continued)	Manufacturer & Style #		Unit Price
POLO SHIRTS			
(Black)		-	
Elbeco UF/X #K5141, men's Tactical Polo, long sleeve, Sizes SM-XL 100% Poly, black	Elbeco #K5141	\$	23.75
Elbeco UF/X #K5141-OS, men's Tactical Polo, long sleeve, Sizes 2XL-3XL, 100% Poly,			
black	Elbeco #K5141-OS	\$	27.25
Elbeco UF/X #K5181LC, women's Tactical Polo, long sleeve, Sizes SM-XL 100% Poly,			
	Elbeco #K5181LC	\$	22.65
Elbeco UF/X #K5181LC-OS, women'sTactical Polo, long sleeve, Sizes 2XL-4XL 100%			···
Poly, black	Elbeco #K5181LC-OS	\$	27.25
Elbeco UF/X #K5131, men's Tactical Polo, short sleeve, Sizes SM-XL, 100% Poly, black	Elbeco #K5131	\$	25.65
Elbeco UF/X #K5131-OS, men's Tactical Polo, short sleeve, Sizes 2XL-3XL, 100% Poly,			
black	Elbeco #K5131-OS	\$	27.75
Elbeco UF/X #K5171LC, women's Tactical Polo, short sleeve, Sizes SM-XL, 100% Poly,			
black	Elbeco #K5171LC	\$	20.65
Elbeco UF/X #K5171LC-OS women's Tactical Polo, short sleeve, Sizes 2XL-4XL, 100%			
Poly, black	Elbeco #K5171LC-OS	\$	24.75
(Grey)			
Elbeco UF/X #K5148, men" Tactical Polo, long sleeve, Sizes SM-XL 100% Poly, grey			
(Crime Lab/Property/Civilian employees)	Elbeco #K5148	\$	25.45
Elbeco UF/X #K 5148-OS men's Tactical Polo, long sleeve, Sizes 2XL-3XL, 100% Poly,			
Grey (Crime Lab/Property/Civilian employees)	Elbeco #K5148-OS	\$	30.55
Elbeco UF/X #K5188LC, women's Tactical Polo, long sleeve, Sizes SM-XL 100% Poly,		<u>^</u>	~~ ~~
grey	Elbeco #K5188LC	\$	23.75
Elbeco UF/X #K5188LC-OS, women's Tactical Polo, long sleeve, Sizes 2XL-4XL 100%		0	29.45
Poly, grey	Elbeco #K5188LC-OS	\$	28.45
Elbeco UF/X #K5138, men's Tactical Polo, short sleeve, Sizes SM-XL, 100% Poly, grey		¢	22.05
(Crime Lab/Property/Civilian employees)	Elbeco #K5138	\$	23.95
Elbeco UF/X #K5138-OS, men's Tactical Polo, short sleeve, Sizes 2XL-3XL, 100% Poly,		¢	27.75
grey (Crime Lab/Property/Civilian employees)	Elbeco #K5138-OS	\$	27.75
Elbeco UF/X #K5178LC, women's Tactical Polo, short sleeve, Sizes SM-XL, 100% Poly,		\$	21.55
grey (Crime Lab/Property/Civilian employees)	Elbeco #K5178LC	3	21.33
Elbeco UF/X #K5178LC-OS women's Tactical Polo, short sleeve, Sizes 2XL-4XL, 100%	TH UK51791.C.00	¢	25.85
Poly, grey (Crime Lab/Property/Civilian employees)	Elbeco #K5178LC-OS	\$	23.83

SECTION A (continued)	Manufacturer & Style #	Unit Price
(White)		
Elbeco UF/X #K5140, men's Tactical Polo, long sleeve, Sizes SM-XL 100% Poly, white, (PSS/Volunteeers/SPP)	Elbeco #K5140	\$ 25.75
Elbeco UF/X #K5140-OS, men's Tactical Polo, long sleeve, Sizes 2XL-3XL, 100% Poly, white, (PSS)	Elbeco #K5140-OS	\$ 30.85
Elbeco UF/X #K5180LC, women's Tactical Polo, long sleeve, Sizes SM-XL 100% Poly, white, (PSS)	Elbeco #K5180LC	\$ 23.15
Elbeco UF/X #K5180LC-OS, women's Tactical Polo, long sleeve, Sizes 2XL-4XL 100% Poly, white, (PSS)	Elbeco #K5180LC-OS	\$ 27.85
Elbeco UF/X #K5130, men's Tactical Polo, short sleeve, Sizes SM-XL, 100% Poly, white, (PSS)	Elbeco #K5130	\$ 23.95
Elbeco UF/X #K5130-OS, men's Tactical Polo, short sleeve, Sizes 2XL-3XL, 100% Poly, white, (PSS/Volunteeers/SPP)	Elbeco #K5130-OS	\$ 28.75
Elbeco UF/X #K5170LC, women's Tactical Polo, short sleeve, Sizes SM-XL, 100% Poly, white, (PSS/Volunteeers/SPP)	Elbeco #K5170LC	\$ 21.05
Elbeco UF/X #K5170LC-OS women's Tactical Polo, short sleeve, Sizes 2XL-3XL, 100% Poly, white, (PSS)	Elbeco #K5170LC-OS	\$ 25.25
5.11 Professional Polo # 41060-010 S/S Shirt, sizes S-XL , white, 100% cotton pique fabric, pen slot on sleeves	5.11 #41060-010	\$ 23.85
5.11 Professional Polo # 41060-010-OS S/S Shirt, sizes 2XL- 3XL, white, 100% cotton pique, pen slot on sleeves	5.11 #41060-010-OS	\$ 27.35
5.11 Professional Polo # 61166-010 S/S Shirt, sizes S-XL, women's, white, 100% cotton pique fabric, pen slot on sleeves	5.11 #61166-010	\$ 21.45
(Tan)		
5.11 Professional Polo # 41060-160 S/S Shirt, sizes S-XL, Silver Tan, 100% cotton pique fabric, pen slot on sleeves	5.11 #41060-160	\$ 25.35
5.11 Professional Polo # 41060-160-OS S/S Shirt, sizes 2XL- 3XL, Silver Tan, 100% cotton pique, pen slot on sleeves	5.11 #41060-160-OS	\$ 27.05
5.11 Professional Polo # 61166-160 S/S Shirt, sizes S-XL, women's Silver Tan, 100% cotton pique fabric, pen slot on sleeves	5.11 #61166-160	\$ 21.45
5.11 Performance Polo # 71049-160 S/S Shirt, sizes S-XL, Silver Tan, 100% cotton pique fabric, mic clip pockets on shoulders, pen slot on sleeves	5.11 #71049-160	\$ 24.65

SECTION A (continued)	Manufacturer & Style #		Unit Price
5.11 Performance Polo # 71049-160-OS S/S Shirt, sizes 2XL- 3XL, Silver Tan, 100% cotton pique, mic clip pockets on shoulders, pen slot on sleeves	5.11 #71049-160-OS	\$	28.25
5.11 Performance Polo # 61165-160 S/S Shirt, sizes S-XL, women's Silver Tan, 100% cotton pique fabric, mic clip pockets on shoulders, pen slot on sleeves	5.11 #61165-160	\$	24.65
SCHOOL GUARDS			
Redkap #SP24LG, shirt, light green, summer, 65% polyester/35% cotton, short sleeve	Redkap #SP24LG	\$	7.65
Redkap #SP14LG, shirt, light green, summer, 65% polyester/35% cotton, long sleeve	Redkap #SP14LG	\$	9.35
II. PANTS (Burlington Raeford Mill must be used for all wool items)			
Flying Cross #32289, men's, navy blue, 100% wool, 17 oz., w/ sap pocket	Flying Cross #32289	\$	50.05
Flying Cross #35289, women's, navy blue, 100% wool, 17 oz., w/ sap pocket	Flying Cross #35289	\$	37.75
Flying Cross #38289, men's, 100% polyester, w/ sap pocket, navy blue,	Flying Cross #38289	\$	29.35
Flying Cross #38233, women's 100% polyester, navy blue	Flying Cross #38233	\$	26.25
Flying Cross #32289, trousers with stripes (Honor Guard only),	Bidding Marlow White #69-521 on Addendum 5 per A	ddendu	m 3
Blauer #5373-2T 6 pocket trousers, 100% wool (16.5 oz) men's, navy –04	Blauer #5373-2T	\$	75.45
Blauer #5373-2TW 6 pocket trousers, 100% wool (16.5 oz) women's, navy – 04	Blauer #5373-2TW	\$	64.05
Blauer #6012LS-2 Class BDU Trouser, 65% polyester/35% cotton rip-stop, black (11)	Blauer #6012LS-2	\$	43.85
Blauer #6012LS-2 Class BDU Trouser, 65% polyester/35% cotton rip-stop, navy (04)	Blauer #6012LS-2	\$	43.85
Blauer #6012LS-2 Class BDU Trouser, 65% polyester/35% cotton rip-stop, OD Green (28)	Blauer #6012LS-2	\$	43.85
Blauer #6012LS-2 Class BDU Trouser, 65% polyester/35% cotton rip-stop, Silver Tan (45)	Blauer #6012LS-2	\$	43.85
Blauer #6012LS-2 Class BDU Trouser, 65% polyester/35% cotton rip-stop, Multi-Cam (39)	Blauer #6012LS-2	\$	60.45
Lion #130, pants, Navy blue, Poly/Cotton Blend (Dispatchers & store keeper)	Lion #130	\$	28.25
Elbeco #703PLB Response Tactical Duty Trousers, Nomex, black, with two SAP pockets (Homeland Security)	Elbeco #703PLB	\$	93.15
Tru Spec #1265, TRU long sleeve shirt, 50% Cordura/50% Nylon Cotton Ripstop, multicam (SWAT)	TruSpec #1265	\$	46.65

SECTION A (continued)	Manufacturer & Style #	Unit Price
5.11 Taclite TDU pant, #74280, men's, 65% polyester/35% cotton Rip Stop (black - 019, olive – 190, tan – 162) (Crime Lab - black)	5.11 #74280-XXX	\$ 33.45
5.11 Taclite TDU pant, #64359 women's, 65% polyester/35% cotton Rip Stop (black - 019, navy - 724) (Crime Lab -black)	5.11 #64359-XXX	\$ 27.65
5.11 TDU pant #74003-019, Cross-stitch design, 65% polyester/35% Cotton Rip-Stop, adjustable waistband, draw-string at bottom of pant leg, black (SWAT and Boat Patrol)	5.11 #74003-019	\$ 32.15
5.11 TDU pant #74003-190, Cross-stitch design, 65% polyester/35% Cotton Rip-Stop black, adjustable waistband, draw-string at bottom of pant leg, green (SWAT)	5.11 #74003-190	\$ 32.15
5.11 TDU pant #74003-175, Cross-stitch design, 65% polyester/35% Cotton Rip-Stop, adjustable waistband, draw-string at bottom of pant leg, camouflage (SWAT)	5.11 #74003-175	\$ 29.55
Tru Spec #3167, H20 ECWS pants, black (SWAT)	TruSpec #3167	\$ 39.05
Tru Spec #1299, 24/7 TRU pant, 65% polyester/35% cotton, mulitcam (SWAT)	TruSpec #1299	\$ 34.25
Tru Spec #1289, 24/7 TRU pant, 65% polyester, 35% cotton, black (SWAT)	TruSpec #1289	\$ 27.75
Tru Spec #1266, TRU pant, 50% Cordura/50% Nylon Cotton Ripstop, multicam (SWAT)	TruSpec #1266	\$ 46.65
5.11 Taclite Pro pant, #74273-019, men's, 65% polyester/35% cotton Rip Stop, black	5.11 #74273-019	\$ 34.25
5.11 Taclite Pro pant, #74273-190, men's, 65% polyester/35% cotton Rip Stop, green	5.11 #74273-190	\$ 34.25
5.11 Taclite Pro pant, #74273-162, men's, 65% polyester/35% cotton Rip Stop, tan	5.11 #74273-162	\$ 34.25
5.11 Taclite Pro pant, #64360-019 women's, 65% polyester/35% cotton Rip Stop, black	5.11 #64360-019	\$ 34.25
5.11 Taclite Pro pant, #64360-190 women's, 65% polyester/35% cotton Rip Stop, green	5.11 #64360-190	\$ 34.25
5.11 Taclite Pro pant, #64360-162 women's, 65% polyester/35% cotton Rip Stop, tan	5.11 #64360-162	\$ 34.25
TruSpec #1062 24/7 Men's Ripstop pant, 65% polyester/35% cotton, black (Evidence Control)	TruSpec #1062	\$ 24.45
TruSpec #1063 24/7 Men's Ripstop pant, 65% polyester/35% cotton, coyote (AOTC)	TruSpec #1063	\$ 24.45
TruSpec #1064 24/7 Men's Ripstop pant, 65% polyester/35% cotton, OD Green	TruSpec #1064	\$ 24.45
TruSpec #1061 24/7 Men's Ripstop pant, 65% polyester/35% cotton, navy	TruSpc #1061	\$ 24.45

SECTION A (continued)	Manufacturer & Style #	Unit Price
TruSpec #1096 24/7 Women's Ripstop pant, 65% polyester/35% cotton, black (Evidence Control)	TruSpec #1096	\$ 24.45
TruSpec #1095 24/7 Women's Ripstop pant, 65% polyester/35% cotton, khaki	TruSpec #1095	\$ 24.45
TruSpec #1097 24/7 Women's Ripstop pant, 65% polyester/35% cotton, navy	TruSpec #1097	\$ 24.45
Special Services Officers/Crossing Guards		
Elbeco # E8149, Forest green, 45% worsted wool /55% polyester pant, 6 pocket, mens w/ sap pocket	Elbeco #E8149	\$ 43.05
Elbeco # E8150, Forest green, 45% worsted wool /55% polyester pant, 6 pocket, women's w/ sap pocket	Elbeco #E8150	\$ 43.05
Flying Cross #32218. Forest green, 45% wool, 55% Dacron polyester, men's w/ sap pocket	Flying Cross #32218	\$ 36.95
Flying Cross #35218. Forest green, 45% wool, 55% Dacron polyester, women's , w/ sap pocket	Flying Cross #35218	\$ 35.25
Flying Cross #32265, Forest green, 100% textured polyester, 6 Pocket, men's	Flying Cross #32265	\$ 34.05
Flying Cross #35265, Forest green, 100% polyester, Women's	Flying Cross #35265	\$ 33.35
Dickies #874 OG, Traditional Twill Pant, Olive Green (crossing guards only)	Dickies #874OG	\$ 17.55
III. BREECHES		· · · · · · · · · · · · · · · · · · ·
Flying Cross #34236 (w/ sap pocket), motor breeches, 100% wool, navy blue,	Flying Cross #34236	\$ 193.65
Flying Cross # LBPDMOBRE, motor breeches, 100% Polyester, navy blue,	Flying Cross #LBPDMOBRE	\$ 138.55
Blauer Motor Breeches, color 04 LAPD Navy	Blauer #8906MB-3	\$ 121.15
Bid Blauer polyester breeches. If LBPD wants wool, it is #8906MB-2 at \$161.25		
IV. SHORTS, BIKE SHORTS & BIKE PANTS		
Mocean #2050B, Bike pant w/belt loops, black, (for Bike Patrol only),	Mocean #2050B	\$ 74.05
Mocean #1050B, Police bike shorts, black (for Bike Patrol only)	Mocean #1051	\$ 46.85
Mocean #1054, Police bike shorts, black (for Bike Patrol only)	Mocean #1054	\$ 36.75
Mocean #1059L, Police bike shorts, black (for Bike Patrol only) (extra long)	Mocean #1059L	\$ 39.25
Mocean #1150, Bike shorts, black (for Bike patrol only)	Mocean #1150	\$ 43.65

SECTION A (continued)	Manufacturer & Style #	Unit Price
Mocean #2150, Bike Pants, black (for Bike Patrol only)	Mocean #2150	\$ 60.35
Mocean #2054, Bike Pants, black (for Bike Patrol only)	Mocean #2054	\$ 53.05
Mocean #1551, Underskin-Chamois, unisex (for Bike patrol only)	Mocean #1551	\$ 27.25
5.11 TacLite Pro Short #73287-019, men's Ripstop, 65% polyester,35% cotton, cargo short, black	5.11 #73287-019	\$ 31.05
5.11 TacLite Pro Short #63071-019, women's Ripstop, 65% polyester,35% cotton, cargo short, black	5.11 #63071-019	\$ 28.25
5.11 Tactical #73285-190 Olive drab green 100% men's cotton canvas shorts	5.11 #73285-190	\$ 28.25
5.11 TacLite Pro Short # 63071-190, women's Ripstop, 65% polyester,35% cotton, cargo short green	5.11 #63071-190	\$ 28.25
5.11 Tactical #73285-190 Olive drab green 100% men's cotton canvas shorts	5.11 #73285-190	\$ 28.25
5.11 Tactical #63306-190 Olive drab green 100% women's cotton canvas shorts	5.11 #63306-190	\$ 28.25
V. JUMPSUITS	ting the second s	
Nomex Flight Suit, #F511546347, sage green (Air Support)	Propper #F511546347	\$ 119.95
Topps #1108, Deluxe coveralls w/silk screen shoulder patches, badge & "Police" on back, embroidered name,	Topps #1108	\$ 57.05
VI. SWEATERS		
Broadway #502B, Sweater, 100% acrylic, navy blue and forest green	Broadway #502B	\$ 47.35
VII. HATS		
Keystone #8PT, uniform 8-point, navy blue,	Keystone #8PTCAP	\$ 30.55
Keystone #8PT w/ Style "A" visor, Command Officer, navy blue	Keystone #8PTCAP A	\$ 77.65
Vanguard #M/0321, Metal cap band, gold	Vanguard #M/0321	\$ 4.05
Alboum #1401, Campaign hat, navy blue with acorns	Alboum #1401	\$ 60.55
Keystone #8PT, 8-point, forest green	Keystone #8PTCAP	\$ 36.85
Vanguard RCV, Rain cap 8 pt cover with visor,	Vanguard #RCV	\$ 2.85
Alboum #1407, Plastic campaign hat cover	Alboum #1407	\$ 3.95
Otto #27-210-004, Wool Baseball Hat, w/ adjustable back, navy (Special Events)	Otto #27-210-004	\$ 3.55
Otto #27-210-017, Wool Baseball Hat, w/ adjustable back, OD green (Marine Patrol)	Otto #27-210-017	\$ 3.55

VIII. JACKETS Cardinal #201A, Windbreaker, Lined, nylon, black (Price shall include the word "POLICE" Cardinal #201A \$ 14.35 Cardinal #201A, Windbreaker, Lined, nylon, yellow (Crossing Guards) Cardinal #201A \$ 12.25 Cardinal #201A, Windbreaker, Unlined, Back nylon, (Price shall include the word "POLICE" Cardinal #320 \$ 10.55 Cardinal #3201A, Windbreaker, Unlined, Back nylon, (Price shall include the word "POLICE" silk-screened in white on the back of the jacket). Cardinal #320 \$ 8.35 Liberty #560M NV, Windbreaker, Unlined, Navy, or approved equal Cardinal #320 \$ 8.35 Cardinal #320 NV \$ 12.23 Cardinal #320 \$ 8.35 Spiewak - Wathertech Jacket, Black (DNS Nylon, 100% Polyester with zip out liner, #Str3485 or approved equal Cardinal #320NV \$ 8.35 Spiewak - Wathertech Jacket, Black (DNS Nylon, 100% Polyester with zip out liner, #Str3465 \$ 199.95 \$ 180.85 Frontline #F1000 \$ 170.85 \$ 199.95 \$ 180.85 Frontline #F1000 Motor Jacket, Black (Motors) Tourmaster #8703-1005 \$ 209.95 \$ 199.95 State Cooper Jacket, Black (Motors) Tourmaster #8703-1005 \$ 199.95 \$ 199.95 State Cooper Jacket, Black (Motors) Tourmaster #8703-1005 \$ 209.95 \$ 180.85 Fortline #F100	SECTION A (continued)	Manufacturer & Style #	Unit Price
Cardinal #201A, Windbreaker, Lined, nylon, black (Price shall include the word "POLICE" Cardinal #201A \$ 14.35 Cardinal #201A, Windbreaker, Lined, nylon, yellow (Crossing Guards) Cardinal #201A \$ 12.25 Cardinal #201A, Windbreaker, Lined, nylon, yellow (Crossing Guards) Cardinal #320 \$ 10.55 Cardinal #320-NV, Windbreaker, Lined, nylon, yellow (Crossing Guards) Cardinal #320 \$ 8.33 Cardinal #320-NV, Windbreaker, Lined, nylon, yellow (Crossing Guards) Cardinal #320 \$ 8.33 Cardinal #320-NV, Windbreaker, Lined, nylon, yellow (Crossing Guards) Cardinal #320 \$ 8.33 Spiewak - Weathertech Jacket, Black, 100% Nylon, 100% Polyester with zip out liner, #520 TACSHELL, Waterproof, Windproof, Breathable, 3-layer Nylon Rip-Stop \$ 199.95 Blauer - 9820 TACSHELL, Waterproof, Windproof, Breathable, 3-layer Nylon Rip-Stop \$ 10.85 \$ 100.85 Frontline #F1000 Motor Jacket, #8703-1005, Black (Motors) Tourmaster #8703-1005 \$ 209.95 5.11 Tactical Series #48017 Olive Drab Green 5-in-1-jacket (men's & women's sizes), 5.11 #48017 \$ 157.85 Tact Squad DC037T, Public Safety Jacket w/Gotters, Forest Green, Tact Squad 4PC037T \$ 147.55 Tact Squad DC037T, Public Safety Jacket w/Gutter, black (SWAT only) Mocean #6051M \$ 95.65 Mocean #6051M Fleece Iter (for Bike patrol only) Mocean #6551M			
silk-screened in white on the back of the jacket). Cardinal #201A \$ 12.25 Cardinal #201A, Windbreaker, Lined, Nujon, yellow (Crossing Guards) Cardinal #201A \$ 10.55 Cardinal #201A, Windbreaker, Lined, Nujon, Yellow (Crossing Guards) Cardinal #320 \$ 10.55 Cardinal #101A, Windbreaker, Lined, Nay, or approved equal Cardinal #320 \$ 8.33 Liberty #560M NV, Windbreaker, Lined, Nay, or approved equal Cardinal #320 \$ 8.35 Spiewak – Weathertech Jacket, Black, 100% Nylon, 100% Polyester with zip out liner, #5H3465 or approved equal \$ 99.95 Blauer – 9820 TACSHELL, Waterproof, Windproof, Breathable, 3-layer Nylon Rip-Stop Blauer #9820/2 \$ 189.85 Frontline #F1000 Motor Jacket, Black, 100% nylon shell and lining, zip out liner, elbow, shoulder and back pads included (Motors) Tourmaster #8703-1005 \$ 109.95 First Stretch and guitted liner, black (Motors) Tourmaster #8703-1005 \$ 209.95 5.11 Tactical Series #48017 Olive Drab Green 5-in-1-jacket, (men's & women's sizes), 5.11 #48017 \$ 159.95 Flying Cross#79905GTX, Public Safety Jacket WG Ortex, Forest Green, Flying Cross#79905GTX \$ 187.35 Tact Squad DC03/T, jacket, forest green, long sleeve wfull liner, Tact Squad #DC03/T \$ 51.45 Mocean #6551M Fleece liner (for Bike patrol only) Mocean #6551M \$ 51.45 Mocean #6551M Fleece liner (for Bike patrol only) Mocean #6551M \$ 51.45 IX. RAIN GEAR Neese #447AT Rain jacket, yellow, Neese K447AJ \$ 21.05 Neese #447AT Rain jacket, yellow, Neese K447PT Rain pants, yellow, Neese #447AT Rain jacket, yellow, Neese #447PT Rain pants, yellow, Neese #447PT Bake, #DC60 \$ 21.95	Cardinal #201A, Windbreaker, Lined, nylon, black (Price shall include the word "POLICE"	Cardinal #201A	\$ 14.35
Cardinal #2014, Vindbreaker, Linled, Nyon, Yellow (Crossing Guards) Cardinal #320 \$ 10.55 Cardinal #1014, Windbreaker, Linled, Navy, or approved equal Cardinal #320 \$ 10.55 Cardinal #320-NV, Windbreaker, Linled, Navy, or approved equal Cardinal #320 \$ 8.33 Diberty #560M NV, Windbreaker, Lunined, Navy, or approved equal Cardinal #320 \$ 8.35 Spiewak - Weathertech Jacket, Black, 100%, NJON, 100% Polyester with 2ip out liner, #SH3465 or approved equal Spiewak - Weathertech Jacket, Black, 100%, NJON, 100% Polyester with 2ip out liner, #SH3465 \$ 199.95 Blauer - 9820Z \$ 19.85 S 199.95 Shell Fabric W/12%, Stretch and quilted liner, black Prontline #F1000 \$ 170.85 Frontline #F1000 Motor Jacket, Black, 100% nylon shell and lining, zip out liner, elbow, shoulder and back past included (Motors) Frontline #F1000 \$ 170.85 Tour Master 2.0 Flex Motor Jacket, #3703-1005, Black (Motors) Tourmaster #703-1005 \$ 200.95 5.11 Tactical Series #48017 \$ 159.95 Flying Cross#79905GTX \$ 187.35 Tact Squad DC0371, jacket, fores targene, long sleeve w/full liner, Mocean #6551M Fleece liner (for Bike patrol only) Mocean #6551M \$ 51.45 Mocean #6551M Fleece liner (for Bike patrol only) Mocean #6551M \$ 51.45 Neese #447AT Rain jacket, yellow, Neese #447AT \$ 18.05 Neese #447PT Rain pants, yellow, Neese #4	silk-screened in white on the back of the jacket).		· ·
"POLICE" silk-screened in white on the back of the jacket). Cardinal #320 \$ 10.33 Cardinal #101A, Windbreaker, Unlined, Navy, or approved equal Cardinal #320 \$ 8.35 Liberty #560M NV, Windbreaker, Unlined, Navy, or approved equal Cardinal #320NV \$ 8.35 Cardinal #320-NV, Windbreaker, Unlined, Navy, or approved equal Cardinal #320NV \$ 8.35 Spiewak - Weathertech Jacket, Black, 100% Nylon, 100% Polyester with zip out liner, #\$H3465 \$ 199.95 Blauer - 9820 TACSHELL, Waterproof, Windproof, Breathable, 3-layer Nylon Rip-Stop Blauer #9820Z \$ 189.85 Frontline #F1000 Motor Jacket, Black, 100% nylon shell and lining, zip out liner, elbow, shoulder and back pads included (Motors) Frontline #F1000 \$ 170.85 Tour Master 2.0 Flex Motor Jacket, Black, 100% nylon shell and lining, zip out liner, elbow, shoulder and back pads included (Motors) Frontline #F1000 \$ 170.85 Tour Master 2.0 Flex Motor Jacket, Metor Sacket, Chorest green, Iong sleeve w/full liner, Tact Squad #70C03/T \$ 189.95 \$ 11449017 \$ 189.95 Flying Cross#79905GTX, Public Safety Jacket w(Gortes, Forest Green, Forest Green, Front Step and PoC03/T, jacket, forest green, Iong sleeve w/full liner, Tact Squad #70C03/T \$ 11.45 Mocean #6050S, Bike jacket light (for Bike patrol only) Mocean #6050S \$ 95.65 Mocean #6051M Fleece liner (for Bike patrol only)	Cardinal #201A, Windbreaker, Lined, nylon, yellow (Crossing Guards)		J 12.25
"POLICE" sitk-accelered in Write on the Packet). Cardinal #320 \$ 8.35 Cardinal #101A, Windbreaker, Linned, Navy, or approved equal Liberty #560MNV \$ 12.35 Cardinal #320-NV, Windbreaker, Linned, Navy, or approved equal Cardinal #320NV \$ 8.35 Cardinal #320-NV, Windbreaker, Linned, Navy, or approved equal Cardinal #320NV \$ 8.35 Spiewak – Weathertech Jacket, Black, 100% Nylon, 100% Polyester with zip out liner, #Sth3465 or approved equal Spiewak #SH3465 \$ 199.95 Blauer – 9820Z \$ 189.85 \$ 189.85 \$ 199.95 Stellauer – 9820Z \$ 189.85 \$ 170.85 Fontline #F1000 \$ 170.85 \$ 209.95 Stellauer – 9820Z \$ 189.85 \$ 199.95 Flying Cross #79905GTX, Public Safety Jacket (Motors) \$ 100% not safety #48017 \$ 159.95 Flying Cross #79905GTX, Public Safety Jacket w/ Gortex, Forest Green, Neces #4703-1005 \$ 95.65 Mocean #6551M Fle	Cardinal #101A, Windbreaker, Unlined, Black nylon, (Price shall include the word	Condinal #220	\$ 10.55
Cardinal #101A, Windoreaker, Linend, Navy, or approved equal Liberty #560MNV \$ 12.25 Cardinal #320-NV, Windbreaker, Linend, Navy, or approved equal Cardinal #320NV \$ 8.35 Spiewak – Weathertech Jacket, Black, 100% Nylon, 100% Polyester with zip out liner, #SH3465 or approved equal Spiewak +SH3465 \$ 199.95 Blauer – 9820 TACSHELL, Waterproof, Windproof, Breathable, 3-layer Nylon Rip-Stop Blauer #9820Z \$ 189.85 Frontline #F1000 Motor Jacket, Black, 100% nylon shell and lining, zip out liner, elbow, shoulder and back pads included (Motors) Frontline #F1000 \$ 170.85 Tour Master 2.0 Flex Motor Jacket, #703-1005, Black (Motors) Tourmaster #8703-1005 \$ 209.95 5.11 Tactical Series #48017 Olive Drab Green 5-in-1-jacket, (men's & women's sizes), 5.11 Tactical Series #48017 Olive Drab Green, forest Green, Tact Squad DC03/T, jacket, forest green, long sleeve w/full liner, Mocean #6050S, Bike jacket light (for Bike patrol only) Mocean #6050S \$ 95.65 Mocean #6551M Fleece liner (for Bike patrol only) Mocean #6551M \$ 14.85 Neese #447AT Rain jacket, yellow Neese #447AT \$ 18.05 Neese #447PT Rain pants, yellow, X. SAFETY VESTS Neese #447PT \$ 18.05			
Liberty #ob0M NV, Windbreaker, Lined, Navy, Or approved equal Cardinal #320NV \$ 8.35 Spiewak – Weathertech Jacket, Black, 100% Nylon, 100% Polyester with zip out liner, #SH3465 or approved equal Spiewak + SH3465 \$ 199.95 Blauer #98207 ACS-HELL, Waterproof, Windproof, Breathable, 3-layer Nylon Rip-Stop Shell Fabric w/12% Stretch and quilted liner, black Blauer #9820Z \$ 189.85 Frontline #F1000 Motor Jacket, Black, 100% nylon shell and lining, zip out liner, elbow, shoulder and back pads included (Motors) Frontline #F1000 \$ 170.85 Tour Master 2.0 Flex Motor Jacket, #8703-1005, Black (Motors) Tourmaster #8703-1005 \$ 209.95 5.11 Tactical Series #48017 Olive Drab Green 5-in-1-jacket, (men's & women's sizes), 5.11 Tactical Series #48017 Olive Drab Green 5-in-1-jacket, (men's & women's sizes), 5.11 act squad DC03/T, jacket, forest green, long sleeve w/full liner, Tact Squad DC03/T, jacket, forest green, long sleeve w/full liner, Mocean #6050S, Bike jacket light (for Bike patrol only) Mocean #6050S \$ 9.565 Mocean #6551M Fleece liner (for Bike patrol only) Mocean #6551M \$ 21.05 Tru Spec #2012, H20 ECWS, parka with removable liner, black (SWAT only) Turespec #2012 \$ 74.85 Tru Spec #247PT Rain pants, yellow, Necese #447AJ \$ 18.05 Neese #447PT Rain pants, yellow, Necese #447PT \$ 18.05 X. SAFETY VESTS ANSI 207-2006 Compliance #DC60 Public Safety Vest, Yellow, all sizes, LBPD – left Tact Squad #DC60 \$ 21.95			
Cardinal #320-NV, Windbreaker, Unlined, NaVV, of approved equal Summariant Spiewak			
#SH3465 or approved equal Spiewak #SH3465 \$ 199.93 Blauer - 9820 TACSHELL, Waterproof, Windproof, Breathable, 3-Jayer Nylon Rip-Stop Blauer #9820Z \$ 189.85 Frontline #F1000 Motor Jacket, Black, 100% nylon shell and lining, zip out liner, elbow, shoulder and back pads included (Motors) Frontline #F1000 \$ 170.85 Tour Master 2.0 Flex Motor Jacket, Broot Jacket, #8703-1005, Black (Motors) Tourmaster #8703-1005 \$ 209.95 5.11 Tactical Series #48017 Olive Drab Green 5-in-1-jacket, (men's & women's sizes), 5.11 #48017 \$ 187.35 Tact Squad DC03/T, Public Safety Jacket Wi Gortex, Forest Green, Flying Cross#79905GTX \$ 187.35 Tact Squad #DC03/T, incket, forest green, long sleeve w/full liner, Tact Squad #DC03/T \$ 51.45 Mocean #6050S, Bike jacket light (for Bike patrol only) Mocean #6051M \$ 51.85 Tru Spec #2012, H20 ECWS, parka with removable liner, black (SWAT only) TruSpec #2012 \$ 74.85 IX. RAIN GEAR Neese #447AT Rain jacket, yellow Neese #447AT \$ 21.05 Neese #447PT Rain pants, yellow, Neese #447PT \$ 18.05 X. SAFETY VESTS X. Tact Squad #DC60 \$ 21.95 ANSI 207-2006 Compliance #DC60 Public Safety Vest, Yellow, all sizes, LBPD – left Tact Squad #DC60 \$ 21.95	Cardinal #320-NV, Windbreaker, Unlined, Navy, or approved equal		J 8.55
Shell Fabric w/12% Stretch and quilted liner, black Blauer #9820Z \$ 189.85 Frontline #F1000 Motor Jacket, Black, 100% nylon shell and lining, zip out liner, elbow, shoulder and back pads included (Motors) Frontline #F1000 \$ 170.85 Tour Master 2.0 Flex Motor Jacket, #8703-1005, Black (Motors) Tourmaster #8703-1005 \$ 209.95 5.11 Tactical Series #48017 Olive Drab Green 5-in-1-jacket, (men's & women's sizes), 5.11 #48017 \$ 187.35 Flying Cross#79905GTX, Public Safety Jacket w/ Gortex, Forest Green, Flying Cross #79905GTX \$ 187.35 Tact Squad DC03/T, jacket, forest green, long sleeve w/full liner, Tact Squad #DC03/T \$ 51.45 Mocean #6050S, Bike jacket light (for Bike patrol only) Mocean #6050S \$ 95.65 Mocean #6551M Fleece liner (for Bike patrol only) Mocean #6551M \$ 51.85 Tru Spec #2012, H20 ECWS, parka with removable liner, black (SWAT only) TruSpec #2012 \$ 74.85 IX. RAIN GEAR Neese #447AT Rain jacket, yellow, Neese #447AJ \$ 18.05 Neese #447PT Rain pants, yellow, Neese #447PT \$ 18.05 X. SAFETY VESTS Image: August and august an	#SH3465 or approved equal	Spiewak #SH3465	\$ 199.95
Frontline #F1000 Motor Jacket, Black, 100% nylon shell and lining, zip out liner, elbow, shoulder and back pads included (Motors) Frontline #F1000 \$ 170.85 Tour Master 2.0 Flex Motor Jacket, #8703-1005, Black (Motors) Tourmaster #8703-1005 \$ 209.95 5.11 Tactical Series #48017 Olive Drab Green 5-in-1-jacket, (men's & women's sizes), Flying Cross#79905GTX, Public Safety Jacket w/ Gortex, Forest Green, Flying Cross #79905GTX \$ 187.35 Tact Squad DC03/T, jacket, forest green, long sleeve w/full liner, Tact Squad #DC03/T \$ 51.45 Mocean #6050S, Bike jacket light (for Bike patrol only) Mocean #6050S \$ 95.65 Mocean #6551M Fleece liner (for Bike patrol only) Mocean #6551M \$ 51.85 Tru Spec #2012, H20 ECWS, parka with removable liner, black (SWAT only) Tru Spec #2012 \$ 74.85 Neese #447AT Rain jacket, yellow, Neese #447AJ \$ 18.05 X. SAFETY VESTS Neese #447PT \$ 18.05 ANSI 207-2006 Compliance #DC60 Public Safety Vest, Yellow, all sizes, LBPD – left Tact Squad #DC60 \$ 21.95		Blauer #9820Z	\$ 189.85
Tour Master 2.0 Flex Motor Jacket, #8703-1005, Black (Motors) Tournaster #8703-1005 \$ 209.95 5.11 Tactical Series #48017 Olive Drab Green 5-in-1-jacket, (men's & women's sizes), 5.11 #48017 \$ 159.95 Flying Cross#79905GTX, Public Safety Jacket w/ Gortex, Forest Green, Flying Cross #79905GTX \$ 187.95 Tact Squad DC03/T, jacket, forest green, long sleeve w/full liner, Tact Squad #DC03/T \$ 51.45 Mocean #6050S, Bike jacket light (for Bike patrol only) Mocean #6050S \$ 95.65 Mocean #6551M Fleece liner (for Bike patrol only) Mocean #6551M \$ 51.85 Tru Spec #2012, H20 ECWS, parka with removable liner, black (SWAT only) TruSpec #2012 \$ 74.85 IX. RAIN GEAR Neese #447AT Rain jacket, yellow \$ 21.05 Neese #447PT Rain pants, yellow, Neese #447PT \$ 18.05 X. SAFETY VESTS ANSI 207-2006 Compliance #DC60 Public Safety Vest, Yellow, all sizes, LBPD – left Tact Squad #DC60 \$ 21.95	Frontline #F1000 Motor Jacket, Black, 100% nylon shell and lining, zip out liner, elbow,	Frontline #F1000	\$ 170.85
5.11 Tactical Series #48017 Olive Drab Green 5-in-1-jacket, (men's & women's sizes), 5.11 #48017 \$ 159.95 Flying Cross#79905GTX, Public Safety Jacket w/ Gortex, Forest Green, Flying Cross #79905GTX \$ 187.35 Tact Squad DC03/T, jacket, forest green, long sleeve w/full liner, Tact Squad #DC03/T \$ 51.45 Mocean #6050S, Bike jacket light (for Bike patrol only) Mocean #6050S \$ 95.65 Mocean #6551M Fleece liner (for Bike patrol only) Mocean #6551M \$ 158.5 Tru Spec #2012, H20 ECWS, parka with removable liner, black (SWAT only) TruSpec #2012 \$ 74.85 IX. RAIN GEAR Neese #447AT Rain jacket, yellow Neese #447AT \$ 21.05 Neese #447PT Rain pants, yellow, Neese #447PT \$ 18.05 \$ 18.05 X. SAFETY VESTS ANSI 207-2006 Compliance #DC60 Public Safety Vest, Yellow, all sizes, LBPD – left Tact Squad #DC60 \$ 21.95	Tour Master 2 0 Flex Motor Jacket, #8703-1005, Black (Motors)	Tourmaster #8703-1005	\$ 209.95
Flying Cross#79905GTX, Public Safety Jacket w/ Gortex, Forest Green, Flying Cross #79905GTX \$ 187.35 Tact Squad DC03/T, jacket, forest green, long sleeve w/full liner, Tact Squad #DC03/T \$ 51.45 Mocean #6050S, Bike jacket light (for Bike patrol only) Mocean #6050S \$ 95.65 Mocean #6551M Fleece liner (for Bike patrol only) Mocean #6551M \$ 51.85 Tru Spec #2012, H20 ECWS, parka with removable liner, black (SWAT only) TruSpec #2012 \$ 74.85 IX. RAIN GEAR Image: State of the state of th		5.11 #48017	\$ 159.95
Tact Squad DC03/T. jacket, forest green, long sleeve w/full liner,Tact Squad #DC03/T\$ 51.45Mocean #6050S, Bike jacket light (for Bike patrol only)Mocean #6050S\$ 95.65Mocean #6551M Fleece liner (for Bike patrol only)Mocean #6551M\$ 51.85Tru Spec #2012, H20 ECWS, parka with removable liner, black (SWAT only)TruSpec #2012\$ 74.85IX. RAIN GEARImage: Rese #447AT Rain jacket, yellowNeese #447AT Rain jacket, yellow\$ 21.05Neese #447PT Rain pants, yellow,Neese #447PT\$ 18.05X. SAFETY VESTSImage: Rese #447DT Compliance #DC60 Public Safety Vest, Yellow, all sizes, LBPD – leftTact Squad #DC60\$ 21.95		Flying Cross #79905GTX	\$ 187.35
Mocean #6050S, Bike jacket light (for Bike patrol only) Mocean #6050S \$ 95.65 Mocean #6551M Fleece liner (for Bike patrol only) Mocean #6551M \$ 51.85 Tru Spec #2012, H20 ECWS, parka with removable liner, black (SWAT only) TruSpec #2012 \$ 74.85 IX. RAIN GEAR Image: Rese #447AT Rain jacket, yellow Neese #447AT Rain jacket, yellow \$ 21.05 Neese #447PT Rain pants, yellow, Neese #447PT \$ 18.05 IX. SAFETY VESTS Image: Rese #447DE Compliance #DC60 Public Safety Vest, Yellow, all sizes, LBPD – left Tact Squad #DC60 \$ 21.95		Tact Squad #DC03/T	\$ 51.45
Mocean #6551M Fleece liner (for Bike patrol only)Mocean #6551M\$ 51.85Tru Spec #2012, H20 ECWS, parka with removable liner, black (SWAT only)TruSpec #2012\$ 74.85Image: Image:	Mocean #6050S, Bike jacket light (for Bike patrol only)	Mocean #6050S	\$ 95.65
The Spec #2012, H20 Levid, parka with removable intel, black (orwittionly) Traper instra I IX. RAIN GEAR IIIII Spec #3012 IIIIII Spec #3012 Neese # 447AT Rain jacket, yellow Neese #447AJ \$ 21.05 Neese #447PT Rain pants, yellow, Neese #447PT \$ 18.05 X. SAFETY VESTS IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Mocean #6551M Fleece liner (for Bike patrol only)	Mocean #6551M	\$ 51.85
Neese # 447AT Rain jacket, yellow Neese #447AT Rain jacket, yellow, \$ 21.05 Neese #447PT Rain pants, yellow, Neese #447PT \$ 18.05 X. SAFETY VESTS Image: Safety Vest, Yellow, all sizes, LBPD – left Tact Squad #DC60 \$ 21.95 ANSI 207-2006 Compliance #DC60 Public Safety Vest, Yellow, all sizes, LBPD – left Tact Squad #DC60 \$ 21.95	Tru Spec #2012, H20 ECWS, parka with removable liner, black (SWAT only)	TruSpec #2012	\$ 74.85
Neese #447PT Rain pants, yellow, Neese #447PT \$ 18.05 X. SAFETY VESTS Image: Second seco	IX. RAIN GEAR		
X. SAFETY VESTS Image: Second and the second and t	Neese # 447AT Rain jacket, yellow	Neese #447AJ	\$ 21.05
ANSI 207-2006 Compliance #DC60 Public Safety Vest, Yellow, all sizes, LBPD – left Chest, Police – front & back, 21.95	Neese #447PT Rain pants, yellow,	Neese #447PT	\$ 18.05
chest, Police – front & back,	X. SAFETY VESTS		
	chest, Police – front & back,	Tact Squad #DC60	
	Horace Small #1760 Reflectorized safety vest, Horace Small #1760	Horace Small	\$ 22.55

SECTION A (continued)	Manufacturer & Style #	Unit Price
XI, GLOVES		
Vanguard WG2000S - White cloth, wrist length, (Recruits issue only)	Hatch #WG2000S	\$ 2.55
White gloves with Palm Grip, (Honor Guard Only), Sizes S, M, Lg, XL, Vanguard #5801300 – 5801600 or approved equal	Vanguard #5801300 - 5801600	\$ 3.45
Tact Gear - Neoprene Glove for Detention Officers ?? (for Motors?)	Tact Squad #TG100	\$ 7.25
5.11 Tactical Gloves #59305 – TAC-NFOE Extended Black, cowskin leather, nomex fabric, full length flight glove with tactical touch (Air Support Only) or approved equal	5.11 #59305 - DISCONTINUED	DISCONTINUED
Black leather, wrist length, Hatch #RFK 300, or approved equal (Motors only)	Hatch #RFK300	\$ 18.55
Hatch # FM2000, Gauntlet, black leather glove, water resistant,	Hatch #FM2000	\$ 20.95
Wiley X, Durtac glove, #G400, black leather	Wiley X #G400	\$ 48.15
XII. TIES		
Smoothie, necktie, black, clip on or velcro,	Smoothie/S Broome	\$ 3.35
Smoothie, bow tie, black,	Smoothie/S Broome	\$ 3.35
Vanguard Ascot, #SW528, white,	Vanguard	\$ 6.25
Vanguard, Tie bars, gold in color ¼" x 2",	Vanguard	\$ 2.45
XIII. NAME TAGS (CLIP-ON WITH LETTERING) & INSIGNIA		
Reeves #3300, 1 line, gold color metal bar, 3/8" x 2-1/4" with black or blue lettering	Reeves #3300LBU	\$ 3.99
Reeves #3300. 2 line, gold color metal bar, w/black letters	Reeves #3300LBU2	\$ 3.00
Reeves #3300, 1 line, silver metal bar, 3/8" x 2-1/4" w/black letters	Reeves #3300LBU3	\$ 3.00
Reeves #33001, Cloth name tape, black or forest green, w/embroidered letters	Reeves #33001	\$ 2.50
Vanguard, Commanding Officer insignia stars (pair)	Vanguard #7170200	\$ 5.05
Hero's Pride #4409, Lieutenants Bars, brass, small for shirts (pair)	Hero's Pride #4409	\$ 2.15
Hero's Pride #4424, Lieutenants Bars, brass, large for jackets (pair)	Hero's Pride #4424	\$ 2.30
SECTION A - Continued	Manufacturer & Style No.	Unit Price
Rothco #1801, Lieutenant Bars (subdued/black metal) (SWAT only)	Rothco #1801	\$ 1.55
Vanguard, Metal clip bands,	Vanguard #3088800	\$ 7.95
Cadet #269, Field Training Officer, gold pin,	Cadet #269	\$ 3.35
Mourning Bands – Black Elastic	Galls #LBU852	\$ 0.95
XIV. PATCHES, EMBROIDERY & SILK SCREEN (See attached photos)		
Patches/Embroidery		
Embroidered Badge	National LBU	\$ 7.45
Embroidered Badge – Full Color	National LBU	\$ 7.45
Embroidered Badge – Subdued	National LBU	\$ 7.45

Embroidered Badge – Investigator – Subdued	National LBU	\$ 7.45
Embroidered Badge – SPP Volunteer	National LBU	\$ 7.45
Shoulder Patch, National – LBPD Patch	National 080812	\$ 1.99
Chauldes Batch National Croop	National	\$ 1.99
Shoulder Patch, National – Green	National	\$ 1.99
Shoulder Patch, National – Subdued	National	\$ 1.99
Shoulder Patch, National – Explorer	National	\$ 1.99
Shoulder Patch, National – Cadet	National	\$ 1.99
Shoulder Patch, National – Search & Rescue (not shown in photos)	National	<u>\$ 1.59</u> \$ 2.59
Shoulder Patch, National – Crossing Guard		<u>\$ 2.39</u> \$ 1.00
Embroidered K-9 Emblem, Dog Head, Rawlings #4	Rawling LBU4	<u>\$ 1.00</u> \$ 0.50
Embroidered SWAT Eagle Patch	LBU CUSTOM	<u>\$ 0.50</u> \$ 5.00
Embroidered Service Stars, Custom	LBU CUSTOM	\$ 5.00
Embroidered Service Wreaths, Custom	LBU CUSTOM	
Embroidered Rank Insignia (Lts and above)	LBU CUSTOM	\$ 2.50
Chevrons – Sergeant (pair) – National	National	\$ 3.90
Chevrons – Corporal (pair) – National	National	\$ 3.90
Motor Officer Traffic Emblems (pair) – National	National	\$ 3.90
Non-Motor Officer Traffic Enforcement	National	\$ 2.00
Embroidered LBPD Medallion Patch	LBU CUSTOM	\$ 2.50
Air Support Unit – Pilot Name	LBU CUSTOM	\$ 2.50
Back patch – black with gold lettering, 3" x 8", no border (for various divisions)	National LBU	\$ 2.99
Silk Screen		
Silk screen, badge #LBU06 - Screen Print Inc. #721,	LBU06	\$ 2.85
Silk screen, police transfer, white or gold, #LBU1216, Screen Print Inc. #268	LBU1216	\$ 2.85
Silk screen, shoulder patch, police transfer, white or gold, #LBU1217, Screen Print Inc.		
#244	LBU1217	\$ 1.95
Silk screen – Senior Police Partner logo	LBU CUSTOM	\$ 2.85
	Section "A" Sub-Total	\$ 7,969.56*

*Section A Sub-Total includes Addendum 2 only. See Addendum 5 for additional items.

Thorogood #834-6100 Oxford, low quarter, black, unisex - Polysole or approved equal (new recruits – shoe option #1)	Removed from bid per Addendum 3	
Thorogood #534-6047, Oxford, plain toe, women's shoes,	Thorogood #534-6047	\$ 64.65
Thorogood #834-6246, Chukka Boot, unisex, black leather, (new recruits – boot option#1)	Thorogood #834-6246	\$ 84.15
Thorogood #834-6047, Oxford, plain toe, black, women's	Removed from bid per Addendum 3	
Thorogood #834-6130, Oxford shoe, padded, black, low quarter, unisex (new recruits – shoe option #2)	Thorogood #834-6130	\$ 70.65
Thorogood #834-6041, Oxford, padded, high quarter, unisex (new recruits – boot option #2)	Thorogood #834-6041	\$ 36.75
Thorogood #831-6031, Corfram, black, low quarter, unisex (Honor Guard, Command Staff & Lieutenants only)	Thorogood #831-6031	\$ 33.35
Thorogood #831-6114, Corfram, black, high quarter, unisex (Honor Guard, Command Staff & Lieutenants only)	Thorogood #831-6114	\$ 71.15
Dehner #190999, Motor officer, custom boots, black	Dehner #190999	\$ 367.45
All American Boot # AA-905, Motor officer, custom boots, black	All American #AA-905	\$ 234.95
Rocky #1950-1, 9" High top boot, mens, all leather, black	Rocky #1950-1	\$ 103.35
Rocky Portland #2080, 8" High top boots, unisex ,Black,	Rocky #2080	\$ 112.00
Rocky Portland #800-1, High top boots, women's, black	Rocky #800-1	\$ 106.95
Rocky Portland #5248, 8" High top boots, unisex, black	Removed from bid per Addendum 3	
5.11 #12004, 8" High top boots, leather, unisex, black	5.11 #12004	\$ 88.25
5.11 #11001, Black leather high top, (SWAT)	5.11 #11001	\$ 108.95
5.11 #12001,8" side zip, Leather high top, (Boat Detail, K-9)	5.11 #12001	\$ 67.45
5.11 #12002, Tactical Boot, ATAC, Black, 6" Leather ¼ boot	5.11 #12002	\$ 62.25
5.11 #1104 Coyote Tan, leather high top (AOTC)	5.11 #11004	\$ 108.95
Chippewa # 27422, Custom Boots, (Air Support)	Chippewa #27422	\$ 145.00
5.11 #12003, Leather high top, size zip, (has Steel Toe/Composite Toe) Air Support	5.11 #12003	\$ 91.35
Side Zipper w/Composite Toe Boot, Magnum Stealth II #5310, (Steel Toe) Air Support	Magnum #5310	\$ 86.15
	Section "B" Sub-Total	\$ 2,043.75

I. POLICE OFFICERS AND SPECIAL SERVICE OFFICERS	Manufacturer & Style No.	Unit Price
1. <u>Belts</u>		
Sam Brown, Tex Shoemaker #201	Tex Shoemaker #201	\$ 50.75
Sam Brown, Aker # BO3-BW	Aker #B03-BW	\$ 34.95
Sam Brown, 100% Clarino leather, high-gloss finish w/ shoulder strap, Marlow White Custom, #60-070 (Honor Guard)	Marlow White #60-070	\$ 94.00
Belt, Duty, lightweight, black, Bianchi #7960, Accu Mold Elite,	Bianchi #7960	\$ 42.65
5.11 Tactical Trainer Belt, #59409-019, black	5.11 #59409-019	\$ 22.25
5.11 Tactical Trainer Belt, #59409-190, green	5.11 #59409-190	\$ 22.25
5.11 Tactical Trainer Belt, #59409-175, camouflage	5.11 #59409-175	\$ 22.25
Dress belt, black basket weave, male or female, Chamber #6050-01	Chambers #6050-01	\$ 9.15
Dress belt, black, 1 ½ inch, plain leather, unisex, Chamber #6010-01	Chambers #6010-01	\$ 9.15
Belt, nylon for Bike Patrol, Bianchi #1992	Bianchi #7205	\$ 17.15
Bianchi Ranger Accumold Sam Browne, #7200, nylon	Bianchi #7200	\$ 30.25
2. <u>Cases</u>		
Handcuffs case, w/snaps or Velcro closures, Tex Shoemaker #204	Tex Shoemaker #204	\$ 24.35
Handcuffs case, w/snaps or Velcro closures, Aker A508-BW/A601-BW	Aker #508-BW/601-BW	\$ 22.45
Handcuff case, black basket weave, w/snaps or Velcro closures Safariland #90V	Safariland #90V	\$ 18.45
Handcuff case, black, w/snaps or Velcro closures Aker A500-BW	Aker #500-BW	\$ 20.45
Handcuff case, nylon gear, Bianchi Ranger Accu Mold #7300	Bianchi #7300	\$ 14.05
Handcuff case, one covered, single, Bianchi Accu Mold Elite, Model #7900	Bianchi #7900	\$ 18.25
3. Holders		
Baton Holder, Tex Shoemaker #82DM	Tex Shoemaker #82DM	\$ 18.95
Baton Holder, Aker #A551M	Aker #551M	\$ 8.55
Baton Holder, Bianchi Ranger #6404, standard	6404 removed from bid per Addenda 3 & 5	
Badge holder, leather w/chain, Safariland #7352-2	Safariland #7352-2	\$ 6.15
Badge holder, leather w/chain, Aker #A597	Aker #597	\$ 9.05
Key holder and ring, Tex Shoemaker #88 ^{1H}	Tex Shoemaker #88	\$ 19.25

SECTION C - Continued	Manufacturer & Style No.	Unit Price
Key holder and ring, Aker # A560-BW, basket weave leather flap	Aker #560-BW	\$ 7.95
Key Holder (Jail) 9mm single case, Tex Shoemaker #215A	Tex Shoemaker #215A	\$ 33.05
Key Holder (Jail), 9mm single case, Aker #A511	Aker #511	\$ 15.95
Key Holder, w/ black basketweave 2 snap leather strap, Aker #A561	Aker #561	\$ 7.55
Key Holder, Silent, black basketweave, leather, Aker #564 (\$9.85)	Aker #564	\$ 13.75
Key holder, nylon, Ranger #6405 or approved equal	Bianchi #6405	\$ 4.35
Key Holder, Silent, Bianchi, Accu Mold Elite, Model #7916,	Bianchi #7916	\$ 13.85
Radio Holder, Bianchi-200S #18755, Accu Mold Elite, Multi-fit radio holder, black, B/W size small (\$32.85)	Removed from bid per Addendum 3	
Radio Holder, Aker #281, Black, Basket Weave, leather (\$24.85)	Triple K #281	\$ 36.25
Radio Holder, Safariland #762-5-4, Basketweave leather, swivel (\$30.85)	Safariland #762-5-4	\$ 28.95
Radio Holder, nylon, Bianchi, Accu Mold Model #7914S, universal,	Added to Addendum 5 - pricing listed on Addendum 5	
Radio Holder, nylon, Bianchi #18520 (fixed)/18521(swivel) (\$28.25) Bianchi 18521 \$21.55	Bianchi #18520	\$ 18.05
Mace holder, nylon gear Bianchi Ranger Acc Mold #7303, black	Bianchi #7307	\$ 12.25
Mace holder, Tex Shoemaker #92, black basket weave leather	Tex Shoemaker #92	\$ 22.85
Mace holder, Aker #A570-BW / A575-BW, black basket weave leather	Aker #570-BW/575-BW	\$ 18.95
Mace Holder, Bianchi Accu Mold Elite #7907, black	Bianchi #7907	\$ 19.45
Flashlight holder, Aker A540/A540SB, black basket weave	Aker #540/540SB	\$ 7.75
4. <u>Keepers</u>		·····
Double snap, Tex Shoemaker #86	Tex Shoemaker #86	\$ 3.15
Double snap, Aker A531-BW	Aker #531-BW	\$ 1.95
Belt Keepers, nylon gear Bianchi #6406	Bianchi #6406	\$ 8.55
Belt Keepers, 4-pk, Bianchi Accu Mold Elite, Model #7906,	Bianchi #7906	\$ 8.05
5. <u>Holsters</u>		
Safety holster, automatic and revolver, double snap, Safariland "Rogers" #070	Safariland #070	\$ 102.05
Holster, Safariland "The Hood", #6280 for regular holsters,	Safariland #6280	\$ 94.25
Holster, Safariland "The Hood", #6280 with light, for regular holsters	Safariland #6280 with light	\$ 102.95
Holster, Safariland, "The Hood", #6285 for 1 1/2 " Drop Holster,	Safariland #6285	\$ 94.25

SECTION C - Continued	Manufacturer & Style No.	Unit Price
Holster, Safariland, "The Hood", #6285 with light, for 1 ½ " Drop Holster,	Safariland #6285 with light	\$ 102.95
Holster, Safariland #6360 for regular holsters,	Safariland #6360	\$ 103.75
Holster, Safariland #6360 with light, for regular holsters,	Safariland #6360 with light	\$ 112.45
Holster, Safariland #6365 for 1 ½ drop holster,	Safariland #6365	\$ 103.75
Holster, Safariland #6365 with light, for 1 ½ drop holster,	Safariland #6365 with light	\$ 112.45
Holster, Clarino, 100% leather, high-gloss finish (specify firearm), Marlow White Custom, #60-075	Marlow White #60-075	\$ 49.95
Automatic and revolver, Safariland #200	Safariland #200	\$ 70.15
Duty belt, drop adapter black basket weave, Safariland #LBU325	Safariland #LBU325	\$ 40.05
Tactical Holster, SLS Safariland #6004 STX, black, tactical finish,	Safariland #6004	\$ 98.45
Tactical Holster, SLS Safariland #6004 STX with light, black, tactical finish,	Safariland #6004 with light	\$ 105.75
Tactical Holster, ALS/SLS, Safariland #6304 STX, black, tactical finish	Safariland #6304	\$ 112.75
Tactical Holster, ALS/SLS, Safariland #6304 with light, STX, black, tactical finish	Safariland #6304 with light	\$ 121.45
6. Magazine pouches		
Magazine pouch, 2 clip, double Safariland #77 (must fit all automatic clip sizes)	Safariland #77	\$ 24.15
Magazine pouch, 2 clip, double Aker A510-BW-2/A510-BW-3/A510-BW-4	Aker #510-BW-2	\$ 24.05
Magazine pouch, double, Bianchi, Accu Mold Elite, Model #7902,	Bianchi #7902	\$ 26.15
Magazine pouch, 4 clip, piggyback 215A4, (must fit all automatic clip sizes) Tex Shoemaker	Tex Shoemaker #215A4	\$ 40.50
Magazine pouch, 4 clip, piggyback (must fit all automatic clip sizes) Aker A510-BW- 2/A510-BW-3/A510-BW-4	Aker #510-BW-4	\$ 36.75
Magazine pouch, nylon gear, Bianchi Ranger Accu Mold #7302 & 7303 Bianchi #7302 \$21.75	5 Bianchi #7303	\$ 12.25
Magazine pouch, quad, Aker #A510D-BW, basket weave, black leather	Aker #510D-BW	\$ 36.75
Bianchi #7345 added to bid per Addendum 3 - not added to total as no section was established: \$19.95		
II. MISCELLANEOUS		
Baton, 26", black, 2 nd growth hickory, AETCO #113126	Aetco #113126	\$ 8.25
Baton, 29", black, 22 oz., 2 nd growth hickory, AETCO #113129	Aetco #113129	\$ 8.85
Baton (Riot), 42", Kohart #100B, black wood	Kohaut #100B	\$ 7.35
Grommet, AETCO, black rubber, 91R	Aetco #199060	\$ 1.90
	Acico #199000	v 2.00 v

Handcuffs, Smith & Wesson #103503*	Smith & Wesson #350103 \$	
Hobble Restraint, Safariland #H-100	Safariland #H-100	\$ 10.05
Whistles, police black plastic, Acme GM-27	Acme #GM-27	\$ 0.95
Loader, nylon gear, Bianchi Ranger Accumold Speedy #7301	Bianchi #7301	\$ 19.75
	Section "C" Sub-Total	\$ 2,667.85*

*Section C Sub-Total includes Addendum 2 only. See Addendum 5 for additional items.

	Manufacturer & Model Number	Unit Price
50 citation metal holder, CHP or approved equal	Somar #CHP-50	\$ 14.65
Gas Mask Millenium, #1636-8 or TE319	Millenium #1636-8	\$ 287.05
Gas Mask Filter for Millenium, #1663 or TE306	Millenium #1663	\$ 37.35
Gas Mask Filter CS/CN for Millenium, #TE201	Millenium #TE201	\$ 33.05
Bag, gas mask, model #228-B,	Millenium #228-B	\$ 9.75
Bag, Helmet	MaxPro #1200	\$ 7.35
Ballistic Helmet, Max Pro Police BEL BA-3A, Level IIIA, with Paulson #DK5-H 1.50, hard mount face shield	MaxPro #BEL BA-3A + Paulson DK5-H 1.50	\$ 199.99
Knife, Spyderco, C-14SBK (K-9 & Port Security)	Spyderco #C-14SBK	\$ 59.55
Helmet, Super - Seer Corporation (must be CAL OSHA & DOT approved for Police Motor Officers) Model Schoie or approved equal _{CAL OSHA} , <u>SNELL Approved - see attached</u>	Seer Schoie	\$ 361.05
5.11 Raid #52022, Safety Glasses, \$59.95 (Motors)	5.11 #52022	\$ 66.85
SWAT Equipment		
SWAT Gloves, Hatch – Operator Shorty, Tactical, #SOG-L50175, black or green	Hatch #SOG-L50 & SOG-L75	\$ 31.75
SWAT Gloves, Hatch – Operator, #SOG-600, black or green,	Hatch #SOG-600 & SOG-650	\$ 33.65
SWAT Knee Pads, Hatch – Hard, ASPI PN #45106 – black,	Hatch #KP250	\$ 11.25
SWAT Knee Pads, Hatch – Soft, ASPI PN #45110 0 – black,	Hatch #NK45	\$ 13.65
SWAT Knee Pads, Hatch Centurion – Hard, #KP250G	Hatch #KP250G	\$ 11.25
SWAT Knee & Elbow Pads, Hatch – Soft, #NK45	Hatch #NK45G	\$ 13.65
SWAT Elbow, Hatch - Hard, Tak #150	Hatch #XTAK150	\$ 9.25
Cell Extraction tactical gear		
Damascus FX-1 – FlexForce Crowd Control System w/ upper body & shoulder protection, forearm protector, thigh & groin protector, knee & shin guards & gear bag	Damascus #FX-1	\$ 299.25
Damascus CRT-100 Vector 1-Riot Control w/ Carbon-Tek Fiber Knuckles	Damascus #CRT-100	\$ 28.65
Damascus KH50L-B Lightweight Kevlar Hood 18" Length	Damascus #KH50L-B	\$ 8.95
Paulson BS-1-ND Body Shield, 20x36x0.125, 0.125 thickness	Paulson #BS-1-ND	\$ 68.65
Paulson BS-9-ND Body Shield, 24x48x0.250, 0.25 thickness	Paulson #BS-9-ND	\$ 117.35
Paulson CS-4-ND Capture Shield, 24x48x0.150, 0.15 thickness	Paulson #CS-4-ND	\$ 75.95
Paulson CS-8-ND Capture Shield, 20x36x0.150, 0.15 thickness	Paulson #CS-8-ND	\$ 70.75

SECTION D - Continued	Manufacturer & Model Number	Unit Price
ESS Profile Turbo Fan Goggles #740-0131	ESS #740-0131	\$ 115.05
Max Pro #CT-100 Police Correctional Helmet, Shield & Grid	MaxPro #CT-100	\$ 133.75
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		0.0.110.44
	Section "D" Sub-Total	\$ 2,119.44

		Unit Price
I. Alter Seat In or Out	LBU CUSTOM	\$ 0.00
2. Sew Pocket Closed on Trouser	LBU CUSTOM	\$ 0.00
3. Adjust Crotch	LBU CUSTOM	\$ 0.00
4. Alter Waist	LBU CUSTOM	\$ 0.00
5. Hem Trouser	LBU CUSTOM	\$0.00
6. Taper Trouser Leg	LBU CUSTOM	\$ 25.00
7. Add Zipper	LBU CUSTOM	\$ 0.00
8. Repair hole/rip in Trouser	LBU CUSTOM	\$ 0.00
9. Repair hole/rip in shirt	LBU CUSTOM	\$ 0.00
10. Taper Shirt	LBU CUSTOM	\$ 0.00
11. Shorten Sleeve	LBU CUSTOM	\$ 0.00
12. Shorten Shirt Tail	LBU CUSTOM	\$ 0.00
13. Add trail to Shirt	LBU CUSTOM	\$ 0.00
14. Add Velcro on Pocket Flaps	LBU CUSTOM	\$ 0.00
15. Remove /Sew on Patch	LBU CUSTOM	\$ 0.00
16. Install Braid	LBU CUSTOM	\$ 10.00
17. Haix Boots resoling (1-pair)	LBU CUSTOM	\$ 64.00
18. Add snaps under collar	LBU CUSTOM	\$ 2.00
19. Add snap on placket	LBU CUSTOM	\$ 2.00
Embroidery		
a. Embroidered wreaths, Custom or approved equal	LBU CUSTOM	\$ 5.00
b. Embroidered stars, Custom or approved equal	LBU CUSTOM	\$ 5.00

SECTION F: CONCEABLE & TACTICAL BODY ARMOR

The following are specifications for concealable and tactical body armor for the City of Long Beach. The below listed body armor has already been tested and evaluated and selected as the standard for the Police Department:

Concealable Vests (Estimated purchase of 100-250 concealable vests per year.)

The primary concealable vest will be the American Body Armor Extreme Model XT01 Level II manufactured by Safariland Inc.

- The Level II vests are required to meet the National Institute of Justice Level II rating ballistic NIJ standards-0101.06.
- The vest carrier must be navy blue and contain a pocket for a front trauma plate.
- The ballistic panel, without carrier, cannot exceed 0.93 lb. per sq. ft. and a thickness of 0.208 inches.

Officers will have the option of upgrading, at their own expense, to the American Body Armor Extreme Model XT01 Level IIIA manufactured by Safariland Inc.

- The Level IIIA vests are required to meet the National Institute of Justice Level IIIA rating ballistic NIJ standards-0101.06 and fragmentation certification under DEA protocol 2009.
- The vest carrier must be navy blue and contain a pocket for a front trauma plate.
- The ballistic panel, without carrier, cannot exceed 0.93 lb. per sq. ft. and a thickness of 0.208 inches.

Tactical Vests (Estimated purchase of 0-50 tactical vests per year.)

The tactical vests will be Protech Tactial Model BA-3A00Z-BR01 Level IIIA manufactured by Safariland Inc.

- The tactical vests are required to meet the National Institute of Justice Level IIIA rating ballistic NIJ standards-0101.06 and fragmentation certification under DEA protocol 2009.
- The vest carrier and pouches must be a MOLLE attachment system.
- The ballistic panel, without carrier, cannot exceed 1.12 lb. per sq. ft. and a thickness of .381 inches.
- The vest carrier must be available in both front opening and side opening models.

Bidder must provide the requested product from a manufacturer that meets the requirements and provides the requested information outlined below::

- The manufacturer must be in business and manufacturing ballistic body armor, for at least 5 years
- If the panels are subcontracted to another vendor, disclosure of the subcontractor. The subcontractor will be subject to the same requirements as the primary manufacture
- Established a solid reputation in the law enforcement community
- References from other departments, if requested
- Disclosure by the manufacturing company if they ever had a bullet penetration of a ballistic panel, from a round it was required to stop under the NIJ Standards. If so, the manufacture must provide documentation of the incident, circumstances and the disposition of any litigation, upon request
- Proof of liability insurance
- Disclosure of any criminal or civil litigation involving defective body armor or fraud over materials used
- Disclosure of filing of chapter 11 while operating under any company name
- Disclosure of operating under a different company name, while manufacturing ballistic body armor
- Meet current NIJ standards-0101.06 standards and currently posted on the Compliance Products List (pending certification does not qualify)
- Perform a performance evaluation, at least every 2 years, during the contract. It would include evaluating a vest, 2 years or older, which is currently being used. The ballistic panel would be evaluated for degradation and performance over the 2 years and a replacement vest, of the same type, would be given to the department. The performance evaluation will be performed at the manufacturer's laboratory, under NIJ standards. A department representative will be present during the evaluation. All of these actions would be at the expense of the manufacturer

BALLISTIC FIELD PANEL SHOOT

The manufacturer will be required to perform a ballistic panel field shoot, at their own expense, at the Long Beach Police Department Range. During the ballistic panel field shoot, the following will be evaluated:

- Demonstrate, during a ballistic panel field shoot, How the ballistic panel performs against rounds commonly encountered, which are beyond the NIJ Standard-0101.06
- Multiple hits on one location (stacking rounds), with Winchester 9MM, SXT 127 gr. +P+
- Shooting on angle from 30 and 45 degrees, with Winchester 9MM, SXT 127 gr. +P+
- Evaluation of back face deformation
- Edge shots within 1 inch, with a Winchester 9MM, SXT 127 gr. +P+

- Tab shot within 1 inch, with a Winchester 9MM, SXT 127 gr. +P+
- Shooting the panel until failure, with a Winchester 9MM, SXT 127 gr. +P+

SPECIAL THREAT ROUNDS

The vest will be tested against special threat rounds. It will be the opinion of the city designee whether the vest is acceptable after reviewing the performance of the ballistic panel against the below listed rounds:

- Speer 357 SIG 125 gr. GDHP
- Speer 44 MAG 240 gr. GDHP (Level IIIA only)
- Winchester 9MM 127 gr. +P+
- FN 5.7x28 SS197 40 gr.
- FN5.7X28 SS195 27 gr. HP
- Tokarev 7.62x25 Sellier Bellot 85 gr. FMJ
- Tokarev 7.62x25 72 gr. Mild Steel Core
- Speer .50 cal Gold Dot 325 gr. JSP
- Winchester .30 carbine 110 gr. HP, fired from a handgun
- Aguila 9MM 65 gr. HP Steel core
- Speer .357 Magnum 125 gr. Gold Dot HP
- MagSafe .45ACP, 85 gr. JHP

The following is a list of equipment required for the ballistic field panel shoot:

- Supply shooting fixture and Roma Plastilina modeling clay
- Supply guns and ammunition, including pistols in caliber 9MM. .40SW, .357 magnum, .357 Sig., .45ACP., .44 magnum, 7.62x 25 Tokarov, 5.57 FN, .30 carbine and .50 caliber handgun. The manufacture may provide additional firearms and ammunition, at their discretion and expense.
- Manufacturer to provide ammunition for the above listed pistols, including Special Threat ammunition
- Manufacturer to provide ammunition currently being deployed by the City of Long Beach. The manufacturer must contact the Police Department prior to the ballistic panel field shoot for a current list.
- If a specific weapon can only be provided by law enforcement, it will be provided by the City of Long Beach, if
 possible

- The Police Department may provide rounds that are out of the scope of the above described rounds, to evaluate the ballistic panel performance
- Chronograph
- Measuring device for back face deformation, in millimeters
- Basic firearms safety equipment for manufacture personnel
- All items, except the items the City of Long Beach has agreed to provide, will be at the manufacturer's expense

Failure to meet any of these requirements will result in disqualification of the bid process.

The bidder is REQUIRED to submit all data/pictures/specifications supporting the material or equipment that is being requested with bid documents.

MEASUREMENT/FITTING PROCESS AND DELIVERY TIME

Upon award, the vendor will provide personnel to measure/fit each officer individually, at a designated facility in the City of Long Beach. The vendor must be located within 40 miles of the city limits.

If the vendor is outside the City of Long Beach, they must provide at least 3 days a month and after hours availability, for fitting, with appointment. A maximum of 7 days will be given to the vendor to set up appointments. The vest must be delivered to the city employee, by the vendor, for verification of fitting, within 60 days of the fitting. The fitting standards must meet or exceed those set forward by Safariland.

Please state estimated time of delivery: 15 - 60 days

The City reserves the right to use delivery time as a consideration for award of bid.

EQUIPMENT CONDITION

The item(s) shall be new and unused, current model, with standard factory fittings, trim and accessories unless otherwise noted. Items shall not have been used as demonstrator(s) or for any other prior service.

PRICE AGREEMENT CONDITIONS

Prices shall be in accordance with those extended to other governmental agencies. Prices quoted shall exclude State and City sales tax, and Federal excise tax.

	Manufacturer & Model Number	Unit Price
Safariland XT01 Men's Level II concealable vest, 0101.06 standard, with navy blue AJ carrier. The carrier will include a front soft trauma plate (STP) and adjustment straps for length and girth.	Safariland BA-2000S-XT01	\$ 540.25
Safariland XT01F Women's Level II concealable vest, 0101.06 standard, with navy blue AJ carrier. The carrier will include a front soft trauma plate (STP) and adjustment straps for length and girth.	Safariland BA-2000S-XT01F	\$ 540.25
Safariland XT01 Men's Level IIIA concealable vest, 0101.06 standard, with navy blue AJ carrier. The carrier will include a front soft trauma plate (STP) and adjustment straps for length and girth.	Safariland BA-3A00S-XT01	\$ 651.65
Safariland XT01F Women's Level IIIA concealable vest, 0101.06 standard, with navy blue AJ carrier. The carrier will include a front soft trauma plate (STP) and adjustment straps for length and girth.	Safariland BA-3A00S-XT01F	\$ 651.65
Replacement AJ carrier for above vests	Safariland ABA-UAJS	<u>\$ 55.75</u>
Protech Rapid Response, BR01 ballistics, side opening, Tactical Vest w/ collar, Level IIIA Ballistics 0101.06 Standard. The ballistic cover will be MOLLE	Protech P6-RBR3-ZYK with BR01 Level IIIA	\$ 1,425.85
Protech Rapid Response F-1, BR01 ballistics, front opening, Tactical Vest w/ collar, Level IIIA Ballistics 0101.06 Standard. The ballistic cover will be MOLLE	Protech P6-SBRZ-ZYK with BR01 Level IIIA	\$ 1,670.85
Protech Bicep (Upper Arm) Protectors (pair) Level IIIA 0101.06 Standard BR01	Protech P6-A-BCP-BR3-YK with BR01 Level	\$ 245.05
Protech Throat Protector Level IIIA 0101.06, BR01	Protech P6-A-THRT-BR3-YK with BR01 Level IIIA	\$ 75.95
Protech Groin Protector Level IIIA 0101.06, BR01	Protech P6-A-GRN-BR3-YK with BR01 Level	\$ 163.05
Protech Tactical pouches including X26 Taser Holster (sets of 6). Pouches will be MOLLE	Protech	\$ 121.55
Protech Tactical Small ID Patch, black with White Letters "POLICE"	Protech EMBLEM E1-POLICE	\$ 10.95
Protech Tactical Large ID Patch, black with White Letters "POLICE"	Protech EMBLEM E2-POLICE	\$ 16.45

Protech MOLLE Identity Holder, 2" x 6"	Protech 1092356	\$ 9.15
Protech MOLLE Identity Holder, 3" x 8.5"	Protech 1092352	\$ 9.15
Protech Plate, 10"x12", Class IIIPLUS	Protech 1011418	\$ 394.95
	Section "	'F" Sub-Total \$ 6,582.50

SUMMARY OF BID SECT	101	NS		, - 4	biff-	~	Adreston Joh	N.
Section A – Basic Uniform Issue Section B – Shoes and Boots	\$_ \$	8,430.26 2,043.75	- 191	,	Ules.	h)	460.30	
Section C – Leather Goods and Accessories	\$_	2,804.80	- 2,61	h.71 =	163.	-	136. R - 2	
Section D – Miscellaneous Equipment Section E – Alterations/Repairs	\$_ \$_	2,119.44 113.00	/					
Grand Total:	\$_	15,511.25						
Section F – Body Armor	\$ _	6,582.50	/					
Grand Total:	\$	6,582.50						

Delivery: 1-5 calendar days after receipt of order. (Delivery shall be made within five (5) calendar days after receipt of order. The ability to deliver sooner may be a factor in award.)

Warranty: <u>12</u> months on clothing, accessories, and equipment. (Requirement: 12 Months minimum after receipt of order.)

Payment Terms: 0% Net 30

Comments (if any):

"ATTACHMENT A" LBPD UNIFORM EMBLEMS & PATCHES



LBPD Embroidered Badge



LBPD Embroidered Badge Full Color



LBPD Embroidered Badge Subdued



LBPD Embroidered Badge Investigator Subdued



Embroidered Badge



LBPD Shoulder Patch



LBPD Shoulder Patch Green



LBPD Shoulder Patch Subdued



LB Crossing Guard Shoulder Patch



LBPD Explorer Shoulder Patch

Embroidered Canine Emblem

Page 1 of 2



LBPD Cadet Shoulder Patch



LBPD Swat Patch

"ATTACHMENT A" LBPD UNIFORM EMBLEMS & PATCHES





10 years

Embroidered Service Stars 5 years

Embroidered Service Stars



Embroidered Service Stars 15 years



Embroidered Service Stars 25 years



Embroidered Service Stars 30 years



Embroidered Service Wreath 20 years



Embroidered Service Wreath and Star 25 years



Sergeant Chevrons Patch



Corporal Chevrons Patch



Motorcycle Officer Patch



LBPD Fox Name Patch



Non-Motorcycle Traffic Enforcement Patch



Embroidered LBPD Medallion

ATTACHMENT B

SMALL BUSINESS ENTERPRISE PROGRAM

There will be a combined SBE/VSBE/LSBE goal of 5% on this contract.



CITY OF LONG BEACH

DEPARTMENT OF FINANCIAL MANAGEMENT Business Relations Bureau

SMALL BUSINESS ENTERPRISE (SBE) PROGRAM

PARTICIPATION INSTRUCTIONS

Rev. June 3, 2011

PROJECT:

June 3, 2011

Small Business Enterprise (SBE) Program + Participation Instructions

1 of 10

INSTRUCTIONS TO BIDDERS

SUMMARY

This Small Business Enterprise ("SBE") Program shall apply to all City Manager Departments, in accordance to Ordinance NO. ORD-11-0010, adopted May 3, 2011 and enacted on July 8, 2011 (Attachment A).

Each prospective bidder who is successful in a bid to <u>provide goods or</u> <u>services</u> to the City must comply with the City's SBE policy.

All prime bidders/proposers are required to submit a SBE/VSBE/LSBE Commitment Plan Form with their bid or proposal by the required due date to illustrate their intent to meet the SBE/VSBE/LSBE project goals.

If the prime bidder/proposer commitment plan does not illustrate intent to meet the combined SBE/VSBE/LSBE project goal, the bidder/proposer must submit a Good Faith Effort (GFE), and pass the GFE evaluation, for the bid/proposal to remain responsive.

The successful prime bidder/proposer will be required to submit a monthly SBE/VSBE/LSBE utilization report (MUR) (COLB FORM 3C or COLB FORM 3P). Staff will review and verify utilization and payments made to small businesses for compliance.

I. Small Business Enterprise (SBE) Certification

Only those Small Business Enterprises certified by City of Long Beach Business Relations Bureau shall be eligible for the fulfillment of the SBE participation goal. SBE listings may be obtained from the Department of Financial Management, Business Relations Bureau. If a Small Business Enterprise elects to compete for city business without being certified as such, they may do so, but any bid submitted will not be counted towards fulfillment of the SBE participation goal.

An SBE desiring certification with the City of Long Beach must complete the online certification process. The online certification process can be viewed and completed at the following link:

http://www.longbeach.gov/purchasing

Upon receipt, the Business Relations Bureau will review the application and determine SBE certification status. In addition, the vendor will be eligible to receive notices to bid on their selected commodities or services.

II. SBE Participation Goal

The overall participation goal in all procurement categories for Small Business Enterprise program participation will apply to all City Manager Departments.

The exception of goals established by the Manager of Business Relations Bureau on a contract-by-contract basis based on market availability and useful function within the contract.

The SBE Participation goal can be achieved in the following manner(s):

- a) **Non-SBE prime contractors/consultants** shall meet the combined SBE/VSBE/LSBE participation goal, or document and submit an acceptable good faith effort, for their bid or proposal to be deemed responsive.
- b) **SBE & LSBE prime contractors/consultants** are deemed to have met the SBE component of the combined SBE/LSBE participation goal, but shall meet the VSBE component of the goal, or document and submit an acceptable good faith effort, for their bid or proposal to be deemed responsive.
- c) **VSBE prime contractors/consultants** are deemed to have met both components of the combined SBE/VSBE participation goal, but shall meet the LSBE component of the goal, or document and submit an acceptable good faith effort, for their bid or proposal to be deemed responsive.

Small Business Enterprises – Eligibility Requirements

I. SBE, VSBE and LSBE Eligibility

- a) SBE eligibility is determined utilizing federal U.S. Small Business Administration (SBA) size standards either by the average gross annual revenue or by the number of employees, based on North American Industrial Classification System (NAICS) codes. The current table of size standards can be accessed on the SBA website www.sba.gov/about-sba-info/4562. Examples of maximum gross annual revenue averaged over the past three years to qualify as an SBE: general contractor \$33.5 million; specialty trade contractor \$14.0 million; engineering services \$4.5 million.
- b) **VSBE** eligibility is determined utilizing maximum allowable annual gross revenues consistent with those of the State of California's Department of

General Services' "micro-business" designation. The current guidelines for this designation can be accessed on the State of California's website at http://www.pd.dgs.ca.gov/smbus/default.htm.

c) Local Small Business Enterprise (LSBE) eligibility shall be determined by the criteria established in Municipal Code section 2.84.030, subdivisions (1) and (2), which states: The business has to have a current, valid business license from the City of Long Beach showing a place of business within City limits; and have a current, valid seller's permit showing a place of business within City limits. In addition to the SBE eligibility criteria described in section a, above.

SBE/VSBE/LSBE Good Faith Effort

Good Faith Effort Evaluation Criteria for Contracts

A proposer whose bid/proposal fails to meet the SBE, VSBE or LSBE participation goal shall be found responsive if an acceptable Good Faith Effort (GFE) is demonstrated. The GFE should be submitted in a letter or memo showing the following information and attaching the related documentation in the bid packet. The following criteria shall be used in evaluating a proposer's GFE:

1. **Attend Pre-Proposal Meeting:** The bidder/proposer submitted written evidence that he/she attended the pre-bid/proposal conference.

Tip: To receive credit for attending the pre-bid/proposal meeting, the attendee must be a person who will be directly involved with the project, i.e., owner, project manager, etc. A copy of the sign-in sheet must be submitted. If no preproposal meeting is held, the bidder/proposer will receive 10 points credit for this criterion.

 Subdivide the Work: The bidder/proposer prepared and followed a plan to subdivide the work into disciplines or work elements that could be economically performed by small businesses. It is the bidder's/proposer's responsibility to demonstrate that sufficient work was made available to SBEs, VSBEs and LSBEs to meet contract requirements (combined SBE/VSBE/LSBE goal established for that contract).

Tip: The work should be subdivided into categories or disciplines to allow for maximum SBE, VSBE and LSBE participation. For example:

Name of Project: Work Elements: <u>Pipeline Relocation Design</u> Civil engineering – 70% Geotechnical – 10% Structural engineering – 10%

Mechanical engineering –10%

3. **Advertise:** The bidder/proposer submitted written evidence of commercial advertising for small business subconsultants, subcontractors, vendors and/or suppliers at least 14 calendar days prior to the bid/proposal due date. A copy of the advertisement, showing the advertisement date(s), name of publication, type of work and amount of work being solicited, must be provided.

Tip: A copy of the advertisement must be provided, including the date(s) of advertisement and name of the publication.

- 4. **Use Public Databases:** The bid/proposer submitted written evidence of using the **City's SBE/VSBE/LSBE** database, small business, minority business, and women-owned business associations, and chambers of commerce to help solicit small businesses. In addition, databases from the agencies below are available.
 - Port of Long Beach www.polb.com/sbe
 - Metropolitan Water District http://www.mwdh2o.com/mwdh2o/pages/business/business01.html
 - Los Angeles Community College District http://www.buildlaccd.org/bidding_and_contracting/index.asp?pg=oao
- 5. **Provide Relevant Information to Small Businesses:** The bidder/proposer submitted written evidence that he/she has provided interested small businesses with information about the requirements of the contract, and how to obtain plans and specifications, at least 14 calendar days prior to the bid/proposal due date or as specified by City SBE staff.

Tip: Submitting the information included in the ad copy and also in direct written solicitations satisfies this requirement.

6. Directly Solicit Small Businesses: The bidder/proposer submitted written evidence of directly soliciting small business subconsultants. A copy of the written notices sent directly to SBEs, VSBEs and LSBEs must be provided. A direct solicitation should include the type of work, amount of work, and a brief specific description of the work being solicited.

Tip: Written evidence must include the following information: name of agency, name of project, company name, scope of work required, date of contact, method of contact (in-person, phone, fax, email), person contacted, result of contact (waiting for response, waiting for bid/proposal, left message, no answer, etc.).

7. **Conduct Follow-Up:** The bidder/proposer submitted written evidence of specific activities used to follow up initial solicitations in preparing the bid/proposal.

Tip: Follow-up activities must include documentation of repeat contact efforts if the first contact was unsuccessful.

8. **Offer Assistance:** The bidder/proposer demonstrated that he/she has offered to assist small businesses in obtaining bonding, insurance or equipment.

Tip: Negotiations include give-and-take by both parties with the intention of reaching a mutually satisfactory agreement. This includes responding in writing to bids/proposals from small businesses.

9. **Negotiate:** The bidder/proposer submitted written evidence that he/she has negotiated in good faith with interested small businesses. Documentation must include company name, contact person, method of contact, and specific items that were negotiated (scope of work, materials, equipment, insurance, bonding, personnel, timing of project, etc.)

Tip: Submitting the offer to assist with bonding/insurance/equipment included in the ad copy and also in direct written solicitations satisfies this requirement.

10. **Document bid/proposal (price) and negotiation results:** For any negotiations which were unsuccessful and/or bids/proposals received but not accepted, the bidder/proposer submitted the unsuccessful proposer's company name, telephone number, contact person, price proposed, and the reason for rejecting the bid/proposal. If price was the reason for rejecting the bid/proposal. If price was the reason for rejecting the bid/proposal, list the price bid by all the SBE/VSBE/LSBE and the low bidder for that element of work.

Note: For successful bids/proposals, Contractor must submit the name of the successful bidder/proposer(s) on COLB Form SBE-2C - SBE/VSBE/LSBE Commitment Plan for Construction Contracts or COLB Form SBE-2P for Professional Services Contracts. <u>Please refer to the ITB or RFP for submittal deadlines.</u>

Each of the 10 criteria will be assigned 10 points and will be graded with 0 or 10 points; there is no partial credit. The bidder/proposer must achieve a score of 70 out of a possible 100 points in order for the SBE Administrator to determine that the proposer has made an acceptable GFE.

6 of 10

SBE/VSBE/LSBE Commitment Plan/Utilization/Substitution

For SBE designated contracts or proposals, prime contractors must submit a completed SBE Commitment Plan Form (COLB FORM SBE-2C or COLB FORM SBE-2P) to the City of Long Beach, Business Relations Bureau listing information for each SBE to be used for contract goal satisfaction or a good faith effort explaining why the goal could not be reached. The Business Relations Bureau will approve the initial SBE commitment or good faith effort submitted by the prime contractor.

INSTRUCTIONS FOR COLB FORM SBE-2C: SBE/VSBE/LSBE COMMITMENT PLAN FOR CONSTRUCTION CONTRACTS

SECTIONS 1 AND 2 ARE TO BE COMPLETED BY THE PRIME CONTRACTOR.

INSTRUCTIONS FOR SECTION 2:

- 1. List all SBE/VSBE/LSBE subcontractors, vendors, suppliers, and other businesses that will render materials or services under this contract amendment. Only list SBEs/VSBEs/LSBEs.
- 2. If the prime contractor is an SBE/VSBE/LSBE, list the prime first.
- 3. For a firm to be counted toward meeting the SBE/VSBE/LSBE goals, the firm must be SBE certified on the City's online vendor database (*BidsOnLine*) accessible from the SBE/VSBE/LSBE Program page of the City's website (www.longbeach.gov/purchasing/sbe.asp).
- 4. The City does NOT issue VSBE certifications; VSBE eligibility will be reviewed and determined upon submittal of the Commitment Plan.
- 5. The prime contractor must verify the current eligibility status of each SBE/VSBE/LSBE, prior to listing the firm(s) on the Commitment Plan, by:
 - a. locating the SBE/VSBE/LSBE on the City's website at (www.longbeach.gov/purchasing/sbe.asp).
 - b. contacting the City's SBE Program staff to verify SBE/VSBE/LSBE status.
- 6. Lower tier SBE/VSBE/LSBE subcontractors and SBE/VSBE/LSBE vendors/suppliers rendering materials or services to lower tier subcontractors must also be listed to receive participation credit. **See examples listed in the table in Section 2.**

- 7. The City reserves the right to request proof of payment from the prime contractor/subcontractor to the lower tier sub/vendor/supplier prior to contract close-out.
- 8. All SBEs/VSBEs/LSBEs, regardless of tier, MUST be SBE certified for the materials/services that they will be rendering for the contract.
- 9. All SBEs/VSBEs/LSBEs, regardless of tier, MUST provide materials/services directly applicable to the contract.
- 10. When listing the total dollar value of each SBE/VSBE/LSBE subcontract, materials or services provided, the prime contractor shall subtract payments made for any indirect or non-applicable materials/ services.
- 11. Use multiple copies of this form if necessary.

INSTRUCTIONS FOR COLB FORM SBE-2P: SBE/VSBE/LSBE COMMITMENT PLAN FOR PROFESSIONAL SERVICES CONTRACTS

SECTIONS 1 AND 2 ARE TO BE COMPLETED BY THE PRIME CONTRACTOR.

INSTRUCTIONS FOR SECTION 2:

- 1. List all SBE/VSBE/LSBE subcontractors, vendors, suppliers, and other businesses that will render materials or services under this contract amendment. Only list SBEs/VSBEs/LSBEs.
- 2. If the prime contractor is an SBE/VSBE/LSBE, list the prime first.
- 3. For a firm to be counted toward meeting the SBE/VSBE/LSBE goals, the firm must be SBE certified on the City's online vendor database (*BidsOnLine*) accessible from the SBE/VSBE/LSBE Program page of the City's website (www.longbeach.gov/purchasing/sbe.asp).
- 4. The City does NOT issue VSBE certifications; VSBE eligibility will be reviewed and determined upon submittal of the Commitment Plan.
- 5. The prime contractor must verify the current eligibility status of each SBE/VSBE/LSBE, prior to listing the firm(s) on the Commitment Plan, by:
 - a. locating the SBE/VSBE/LSBE on the City's website at (www.longbeach.gov/purchasing/sbe.asp).
 - b. contacting the City's SBE Program staff to verify SBE/VSBE/LSBE status.

- 6. Lower tier SBE/VSBE/LSBE subcontractors and SBE/VSBE/LSBE vendors/suppliers rendering materials or services to lower tier subcontractors must also be listed to receive participation credit. **See examples listed in the table in Section 2.**
- 7. The City reserves the right to request proof of payment from the prime contractor/subcontractor to the lower tier sub/vendor/supplier prior to contract close-out.
- 8. All SBEs/VSBEs/LSBEs, regardless of tier, MUST be SBE certified for the materials/services that they will be rendering for the contract.
- 9. All SBEs/VSBEs/LSBEs, regardless of tier, MUST provide materials/services directly applicable to the contract.
- 10. When listing the total dollar value of each SBE/VSBE/LSBE subcontract, materials or services provided, the prime contractor shall subtract payments made for any indirect or non-applicable materials/ services.
- 11. Use multiple copies of the form if necessary.

During the term of the contract, the prime contractor shall be required to utilize all subcontractors listed on the commitment plan in the amount and percentage specified on the form, unless the City approves a change in the scope of work that would eliminate or reduce the utilization of a SBE, VSBE, or LSBE.

The prime Contractor/Consultant shall report the dollar value of payments to small businesses on a monthly basis and at project close-out. This data will be verified. Construction contractors shall submit a completed SBENSBE/LSBE Monthly Utilization Report for Construction Contracts (COLB FORM SBE 3C), and consultants shall submit a completed SBENSBE/LSBE Monthly Utilization Report for Professional Services Contracts (COLB FORM SBE 3P).

The Business Relations Bureau office is responsible for approving any revisions to the SBE commitment form approved by City of Long Beach.

If a prime Contractor substitutes an SBE/VSBE/LSBE vendor/supplier, the Contractor shall provide proof, to the satisfaction of SBE staff, that a good faith effort was made to replace that vendor's/supplier's participation percentage with another SBENSBE/LSBE firm, to meet the combined SBENSBE/LSBE participation percentage specified on the Contractor's SBENSBE/LSBE Commitment Plan. At project closeout, if the prime Contractor fails to meet the combined SBENSBE/LSBE participation percentage specified on its SBENSBE/LSBE Commitment Plan, or fails to provide proof that it made a good faith effort to do so, the Contractor may be considered to be in material breach of contract.

9 of 10

For a prime contractor to request a revision to its approved contract SBE commitment, it must submit a Substitution Replacement Form (COLB FORM SBE 4C or COLB FORM SBE 4P) to the City for approval. (Contact Business Relations Bureau at (562) 570-6200 or send an email at sbe@longbeach.gov for more information on this form.)

Upon receipt of this form, the City will implement the following procedure:

- 1. Contact the SBE subcontractor being terminated or replaced to verify information provided by the prime contractor.
- 2. Do not consider a more advantageous subcontract with another subcontractor as a valid reason for SBE subcontractor termination or replacement.
- 3. Ensure the substitution procedure outlined in the contract SBE Special Provision is followed prior to approving the termination or substitution of an approved SBE subcontractor.
- 4. Obtain a completed SBE Commitment Plan form from the prime contractor with original prime contractor and SBE subcontractor signatures, for any new or replacement SBE subcontractors to be added to the previously approved contract SBE commitment. Ensure the following information is included with the SBE Commitment Plan form:
 - items and quantity of work to be performed
 - materials being supplied
 - o dollar value of subcontract, materials or services
 - o total amount of SBE commitment
 - if the SBE is a material supplier, an explanation of the function performed
- 5. Notify the prime contractor and the applicable City project manager or staff of the approval or denial of the SBE commitment revision. Forward the COLB Substitution/Change Form, the appropriate letter, and any file documentation to the prime contractor and City project management staff.

CONTACT INFORMATION and ASSISTANCE

For questions or assistance, please contact the Business Relations Bureau:

Department of Financial Management Business Relations Bureau 333 W. Ocean Blvd., 7th Floor Long Beach, CA 90802 (562) 570-6200 Telephone (562) 570-5099 Fax Email: **sbe@longbeach.gov**

> For more information or to download SBE forms, please visit: www.longbeach.gov/purchasing/sbe.asp



COLB FORM SBE-2P: SBE/VSBE/LSBE COMMITMENT PLAN FOR PROFESSIONAL SERVICES CONTRACTS

SECTION 1

Project Name:	Uniforms, Accessories & Miscellaneous Equipment (Police Department)				11/28/11
Prime Consultant:	Galls, an ARAMARK Con	Prime Contract \$ Amount:	\$2	22,107.55	
Estimated \$ Value of	Prime's Participation:	\$22,107.55	Estimated % of Prime's Parti	cipation:	100%
Estimated \$ Value of	SBE Participation:	\$ 0.00	Estimated SBE % of Prime Co Amount:	ontract \$	0%
Estimated \$ Value of	f VSBE Participation:	\$ 0.00	Estimated VSBE % of Prime \$ Amount:	Contract	0%
Estimated \$ Value of	f LSBE Participation:	\$ 0.00	Estimated LSBE % of Prime (\$ Amount:	Contract	0%

SECTION 2 (please refer to instructions on page 2)

Business Name, City, State, Contact Person, Phone #	Indicate "SBE", "VSBE" or LSBE	Indicate if 1 st Tier Sub, Lower Tier Sub, Vendor or Supplier	Contract With	Brief Description of Work	\$ Value of Subcontract, Materials or Services	% of Total <u>Prime</u> Contract Value
Ex #1: ABC Land Surveyors Long Beach, CA Mr. Joe Smith, (562) 555-1212	LSBE	1st tier sub	XYZ Prime Consultant	Land surveying	\$100,000	20%
Ex #2: Tom's Survey Supplies Long Beach, CA Mr. Tom Jones, (562) 555-1313	VSBE	Supplier	ABC Land Surveyors	Surveying supplies	\$5,000	1%
Ex #3: Banana Blueprints Irvine, CA Mrs. Diane Tomas, (562) 555-1313	SBE	Supplier	XYZ Prime Consultant	Blueprint Supplies	\$10,000	2%
Not Applicable - Outreach Completed;	No Responses	Received				

(56	2) 424-4646 ext. 46	
Phone #		
11/28/11	castro-melissa@galls.com	
Date	Email	
	Phone #	11/28/11 castro-melissa@galls.com

INSTRUCTIONS FOR COLB FORM SBE-2P: SBE/VSBE/LSBE COMMITMENT PLAN FOR PROFESSIONAL SERVICES CONTRACTS

SECTIONS 1 AND 2 ARE TO BE COMPLETED BY THE PRIME CONTRACTOR.

INSTRUCTIONS FOR SECTION 2:

- 1. List all SBE/VSBE/LSBE subcontractors, vendors, suppliers, and other businesses that will render materials or services under this contract amendment. Only list SBEs/VSBEs/LSBEs.
- 2. If the prime contractor is an SBE/VSBE/LSBE, list the prime first.
- 3. For a firm to be counted toward meeting the SBE/VSBE/LSBE goals, the firm must be SBE certified on the City's online vendor database (*BidsOnLine*) accessible from the SBE/VSBE/LSBE Program page of the City's website (www.longbeach.gov/purchasing/sbe.asp).
- 4. The City does NOT issue VSBE certifications; VSBE eligibility will be reviewed and determined upon submittal of the Commitment Plan.
- 5. The prime contractor must verify the current eligibility status of each SBE/VSBE/LSBE, prior to listing the firm(s) on the Commitment Plan, by:
 - a. locating the SBE/VSBE/LSBE on the City's website at (www.longbeach.gov/purchasing/sbe.asp).
 - b. contacting the City's SBE Program staff to verify SBE/VSBE/LSBE status.
- 6. Lower tier SBE/VSBE/LSBE subcontractors and SBE/VSBE/LSBE vendors/suppliers rendering materials or services to lower tier subcontractors must also be listed to receive participation credit. See examples listed in the table in Section 2.
- 7. The City reserves the right to request proof of payment from the prime contractor/subcontractor to the lower tier sub/vendor/supplier prior to contract close-out.
- 8. All SBEs/VSBEs/LSBEs, regardless of tier, MUST be SBE certified for the materials/services that they will be rendering for the contract.
- 9. All SBEs/VSBEs/LSBEs, regardless of tier, MUST provide materials/services directly applicable to the contract.
- 10. When listing the total dollar value of each SBE/VSBE/LSBE subcontract, materials or services provided, the prime contractor shall subtract payments made for any indirect or non-applicable materials/ services.
- 11. Use multiple copies of this form if necessary.

ATTACHMENT C

EQUAL BENEFITS ORDINANCE

ORDINANCE NO. ORD-09-0036

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF LONG BEACH AMENDING THE LONG BEACH MUNICIPAL CODE BY ADDING CHAPTER 2.73 ESTABLISHING AN "EQUAL BENEFITS ORDINANCE" **REQUIRING CONTRACTORS ON CITY CONTRACTS TO** PROVIDE EMPLOYEE BENEFITS TO THEIR EMPLOYEES WITH DOMESTIC PARTNERS EQUIVALENT TO THOSE PROVIDED TO THEIR EMPLOYEES WITH SPOUSES

WHEREAS, employee benefits comprise a significant portion of total employee compensation; and

WHEREAS, discrimination in the provision of employee benefits between 14 employees with domestic partners and employees with spouses results in unequal pay 16 for equal work; and

WHEREAS, the City of Long Beach prohibits discrimination based on 17 marital status and/or sexual orientation; and 18

WHEREAS, contractors with the City of Long Beach are required to comply 19 20 with the City's nondiscrimination laws; and

WHEREAS, the City Council finds and determines that the public, health, 21 22 safety and welfare will be furthered by requiring that public funds be expended in such a 23 manner as to prohibit discrimination in the provision of employee benefits by City contractors between employees with spouses and employees with domestic partners, 24

and between domestic partners and spouses of such employees; 25

26 NOW, THEREFORE, the City Council of the City of Long Beach ordains as 27 follows:

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OFFICE OF THE CITY ATTORNEY ROBERT E. SHANNON, City Attorney 333 West Ocean Boulevard, 11th Floor Long Beach, CA 90802-4664 13 15

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1	Section 1. Chapter 2.73 is added to the Long Beach Municipal Code to
2	read as follows:
3	Chapter 2.73
4	EQUAL BENEFITS TO EMPLOYEES OF CITY CONTRACTORS
5	
6	2.73.010 Title and purpose.
7	This ordinance shall be known as the "Long Beach Equal Benefits
8	Ordinance". The purpose of this Chapter is to protect the public health,
9	safety and welfare by requiring that public funds be expended in such a
10	manner as to prohibit discrimination in the provision of employee benefits by
11	City contractors between employees with spouses and employees with
12	domestic partners, and/or between domestic partners and spouses of such
13	employees.
14	
15	2.73.020 Definitions.
16	A. "Contractor" shall mean any person or persons, firm,
17	partnership, corporation, or combination thereof, who enters into a contract
18	, with the City.
19	B. "Domestic partner" shall mean any person who has a currently
20	. registered domestic partnership with a governmental body pursuant to state
21	or local law authorizing such registration or with his or her employer or his or
22	her domestic partner's employer.
23	C. "Non-profit" shall mean a non-profit organization described in
24	Section 501(c)(3) of the Internal Revenue Code of 1954 which is exempt
25	from taxation under Section 501(c)(3) of that Code, or any nonprofit
26	educational organization qualified under Section 23701(d) of the Revenue
27	and Taxation Code.
28	///
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OFFICE OF THE CITY ATTORNEY ROBERT E. SHANNON, City Attorney 333 West Ocean Boulevard, 11th Floor Long Beach, CA 90802-4664 2.73.030 Contractors subject to requirements.

A. The following contractors are subject to this Chapter:

1. For-profit entities which enter into an agreement with the City for public works or improvements to be performed, or for goods or services to be purchased, for an amount of One Hundred Thousand Dollars (\$100,000) or more; and

2. For-profit entities which generate Three Hundred Fifty Thousand Dollars (\$350,000) or more in annual gross receipts and which occupy City property pursuant to a written agreement for the exclusive use or occupancy of said property for a term exceeding twenty-nine (29) days in any calendar year.

B. The requirements of this Chapter shall only apply to those portions of a contractor's operations that occur (i) within the City; (ll) on real property outside the City if the property is owned by the City or if the City has a right to occupy the property, and if the contractor's presence at that location is connected to a contract with the City; and (iii) elsewhere in the United States where work related to a City contract is being performed. The requirements of this Chapter shall not apply to subcontracts or subcontractors of any contract or contractor.

C. The City Manager or designee will provide a report to the City Council regarding the implementation of this ordinance no later than one year following the effective date of this Ordinance, and will consider among other items, whether the dollar thresholds set forth in subsections (A) and (B) should be modified.

2.73.040 Non-discrimination in provision of benefits.

A. No contractor subject to this Chapter pursuant to Section2.73.030 shall discriminate in the provision of bereavement leave, family

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medical leave, health benefits, membership or membership discounts, moving expenses, pensions and retirement benefits or travel benefits or in the provision of any benefits other than bereavement leave, family medical leave, health benefits, membership or membership discounts, moving expenses, pensions and retirement benefits or travel benefits between employees with domestic partners and employees with spouses, and/or between the domestic partners and spouses of such employees except as set forth in Subsections 2.73.040.A.1 and 2 below;

1. In the event that the contractor's actual cost of providing a particular benefit for the domestic partner of an employee exceeds that of providing it for the spouse of an employee, or the contractor's actual cost of providing a particular benefit for the spouse of an employee exceeds that of providing it for the domestic partner of an employee, the contractor shall not be deemed to discriminate in the provision of employee benefits if the contractor conditions providing such benefit upon the employee agreeing to pay the excess costs.

2. The contractor shall not be deemed to discriminate in the provision of employee benefits if, despite taking reasonable measure to do so, the contractor is unable to extend a particular employee benefit to domestic partners, so long as the contractor provides the employee with a cash equivalent.

B. Provided that a contractor does not discriminate in the provision of benefits between employees with spouses and employees with domestic partners, a contractor may:

1. Elect to provide benefits to individuals in addition to employees' spouses and employees' domestic partners;

2. Allow each employee to designate a legally domiciled member of the employee's household as being eligible for spousal

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equivalent benefits; or

3. Provide benefits neither to employees' spouses nor to employees' domestic partners.

C. A contractor will not be deemed to be discriminating in the provision of benefits where the implementation of policies ending discrimination in benefits is delayed following the first award of a City contract to a contractor after the effective date of this Chapter:

1. Until the first effective date after the first open enrollment process following the date the contract with the City is executed, provided that the contractor submits evidence that it is making reasonable efforts to end discrimination in benefits. This delay may not exceed two (2) years from the date the contract with the City is executed and only applies to benefits for which an open enrollment process in applicable.

2. Until administrative steps can be taken to incorporate nondiscrimination in benefits in the contractor's infrastructure. The timer allotted for these administrative steps shall apply only to those benefits for which administrative steps are necessary and may not exceed three (3) months. An extension of this time may be granted at the discretion of the City Manager upon the written request of a contractor, setting forth the reasons that additional time is required.

3. Until the expiration of a contractor's current collective bargaining agreement(s) where all of the following conditions have been met:

The provision of benefits is governed by one or a. more collective bargaining agreement(s); and

b. The contractor takes all reasonable measures to end discrimination in benefits by either requesting that the union(s) involved agree to reopen the agreement(s) in order for the contractor to take

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whatever steps are necessary to end discrimination in benefits or by ending discrimination in benefits without reopening the collective bargaining agreement(s); and

c. In the event that the contractor cannot end discrimination in benefits despite taking all reasonable measure to do so, the contractor provides a cash equivalent to eligible employees for whom benefits are not available. Unless otherwise authorized, in writing by the City Manager, this cash equivalent payment must begin at the time the union(s) refuse to allow the collective bargaining agreement(s) to be reopened, or in any case no longer than three (3) months from the date the contract with the City was executed. This cash equivalent payment shall not be required where it is prohibited by federal labor law.

D. Employers subject to this Chapter pursuant to Section 2.73.030 shall give written notification to each current and new employee of his or her potential rights under this Chapter in a form specified by the City. Such notice shall also be posted prominently in areas where it may be seen by all employees.

2.73.050 Required contract provisions.

Every contract subject to this Chapter shall contain provisions requiring it to comply with the provisions of this Chapter as they exist on the date when the contractor entered the contract with the City or when such contract is amended. Such contract provisions may include but need not be limited to the contractor's duty to promptly provide to the City documents and information verifying its compliance with the requirements of this Chapter and sanctions for noncompliance.

Waivers and exemptions. 2.73.060 1 The City may waive the requirements of this Chapter where 2 Α. 3 the City Manager makes one or more of the following findings: 1. Award of a contract or amendment is necessary to 4 respond to an emergency; 5 2. The contractor is a sole source; 6 3. The contractor is a non-profit entity as defined in 7 Section 2.73.020, above; 8 9 4. Non compliant contractors are capable of providing goods or services that respond to the City's requirements; 10 5. The contractor is a public entity; 11 ROBERT E. SHANNON, City Attorney 333 West Ocean Boulevard, 11th Floor Long Beach, CA 90802-4664 6. The requirements of this Chapter are inconsistent with 12 a grant, subvention or agreement with a public agency; 13 The City is purchasing through a cooperative or joint 14 7. 15 purchasing agreement; 16 8. The contract involves specialized legal services such that it would be in the best interests of the City to waive the requirements of 17 this Chapter, as determined by the City Attorney; 18 The contract involves investment of trust moneys or 19 9. agreements relating to the management of trust assets, City moneys 20 21 invested in U.S. government securities or under pre-existing investment agreements, or the investment of City moneys where no person, entity or 22 financial institution doing business with the City which is in compliance with 23 this Chapter is capable of performing the desired transactions or the City will 24 incur financial loss if the requirements of this Chapter are enforced; 25 After taking all reasonable measures to find an entity 26 10. that complies with this Chapter, the City may waive any or all requirements 27 28 of this Chapter for any contract or bid package advertised and made 7

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OFFICE OF THE CITY ATTORNEY

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OFFICE OF THE CITY ATTORNEY ROBERT E. SHANNON, City Attorney 333 West Ocean Boulevard, 11th Floor Long Beach, CA 90802-4664 available to the public, or any competitive or sealed bids received by the City as of the effective date of this Chapter under the following circumstances:

a. There are no qualified responsive bidders or
 prospective contractors who comply with this Chapter and the contract is for
 goods, a service or a project that is essential to the City or City residents; or
 b. The requirements of this Chapter would result in
 the City's entering into a contract with an entity that was set up, or is being
 used for the purpose of evading the intent of this Chapter.

B. The requirements of this Chapter shall not be applicable to contracts executed or amended prior to the effective date of this Chapter, or to bid packages advertised and made available to the public, or any competitive or sealed bids received by the City prior to the effective date of this Chapter, unless and until such contracts are amended after the effective date of this Chapter and would otherwise be subject to this Chapter.

C. The City Manager or designee may issue regulations from time to time implementing the provisions of this ordinance.

D. The City Manager shall report to the City Council annually on the status of waivers and exemptions.

2.73.070 Retaliation and discrimination prohibited.

A. No employer shall retaliate or discriminate against an employee in his or her terms and conditions of employment by reason of the person's status as an employee protected by the requirements of this Chapter.

B. No employer shall retaliate or discriminate against a person in
 his or her terms and conditions of employment by reason of the person
 reporting a violation of this Chapter or for prosecuting an action for

enforcement of this Chapter.

2.73.080 Employee complaints to City.

A. An employee who alleges violation of any provision of the requirements of this Chapter may report such acts to the City. The City Manager may establish a procedure for receiving and investigating such complaints and take appropriate enforcement action.

B. The City shall have the power to examine contractors' benefit programs covered by this Chapter.

C. Any complaints received shall be treated as confidential matters, to the extent permitted by law. Any complaints received and all investigation documents related thereto shall be deemed exempt from disclosure pursuant to California Government Code Sections 6254 and 6255.

2.73.090 Remedies.

A. Upon a finding by the City Manager that a contractor has violated the requirements of this Chapter, the City shall have the rights and remedies described in this Section, in addition to any rights and remedies provided at law or in equity.

1. The City Manager shall be authorized to terminate said contract and bar the contractor from bidding on future contracts with the City for three (3) years from the effective date of the contract termination.

2. In the City Manager's sole discretion, a contractor found to have willfully violated the requirements of this Chapter may be required to pay liquidated damages.

 The City may seek recovery of reasonable attorneys' fees and costs necessary for enforcement of this Chapter.

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B. Notwithstanding any provision of this Chapter or any other Chapter to the contrary, no criminal penalties shall attach for any violation of this Chapter.

C. No remedy set forth in this Chapter is intended to be exclusive or a prerequisite for asserting a cause of action to enforce any rights hereunder in a court of law. This Chapter shall not be construed to limit an employee's right to bring a common law cause of action for wrongful termination.

D. Nothing in this Chapter shall be interpreted to authorize a right of action against the City.

Section 2. The City Clerk shall certify to the passage of this ordinance by the City Council and cause it to be posted in three (3) conspicuous places in the City of Long Beach, and it shall take effect on the thirty-first (31st) day after it is approved by the Mayor.

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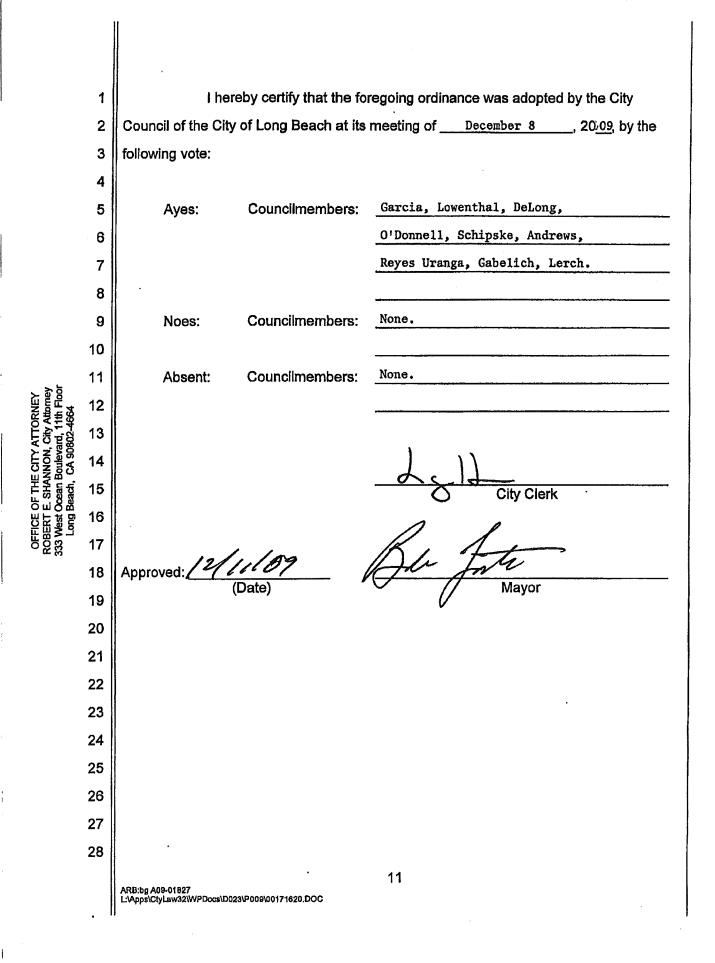
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EQUAL BENEFITS ORDINANCE DISCLOSURE

As a condition of being awarded a contract with the City of Long Beach ("City"), the selected Contractor/Vendor ("Contractor") may be required during the performance of the Contract, to comply with the City's nondiscrimination provisions of the Equal Benefits Ordinance ("EBO") set forth in the Long Beach Municipal Code section 2.73 et seq. The EBO requires that during the performance f the contract, the Contractor shall provide equal benefits to its employees with spouses and employees with domestic partners. Benefits include but are not limited to, health benefits, bereavement leave, family medical leave, member ship and membership discounts, moving expenses, retirement benefits and travel benefits. A cash equivalent payment is permitted if an employer has made all reasonable efforts to provide domestic partners with access to benefits but is unable to do so. A situation in which a cash equivalent payment might be used if where the employer has difficulty finding an insurance provider that is willing to provide domestic partner benefits.

The EBO is applicable to the following employers:

- For-profit employers that have a contract with the City for the purchase of goods, services, public works or improvements and other construction projects in the amount of \$100,000 or more
- For-profit entities that generate \$350,000 or more in annual gross receipts leasing City property pursuant to a written agreement for a term exceeding 29 days in any calendar year

Contractors who are subject to the EBO must certify to the City before execution of the contract that they are in compliance with the EBO by completing the EBO Certification Form, attached, or that they have been issued a waiver by the City. Contractors must also allow authorized City representatives access to records so the City can verify compliance with the EBO.

The EBO includes provisions that address difficulties associated with implementing procedures to comply with the EBO. Contractors can delay implementation of procedures to comply with the EBO in the following circumstances:

 By the first effective date after the first open enrollment process following the contract start date, not to exceed two years, if the Contractor/vendor submits evidence of taking reasonable measures to comply with the EBO; or
 At such time that the administrative steps can be taken to incorporate nondiscrimination in benefits in the Contractor/vendor's infrastructure, not to exceed three months; or

3) Upon expiration of the contractor's current collective bargaining agreement(s).

Compliance with the EBO

If a contractor has not received a waiver from complying with the EBO and the timeframe within which it can delay implementation has expired but it has failed to comply with the EBO, the Contractor may be deemed to be in material breach of the Contract. In the event of a material breach, the City may cancel, terminate or suspend the City agreement, in whole or in part. The City also may deem the Contractor an irresponsible bidder and disqualify the Contractor from contracting with the City for a period of three years. In addition, the City may assess liquidated damages against the Contractor which may be deducted from money otherwise due the Contractor. The City may also pursue any other remedies available at law or in equity.

By my signature below, I acknowledge that the Contractor understands that to the extent it is subject to the provisions of the Long Beach Municipal Code section 2.73, the Contractor shall comply with this provision.

Printed Name:_	Larry Dismukes	1		President
Signature:			Date:_	November 14, 2011
Business Entity	/ Name:	Galls, an ARAMARK Co	mpany, LLC	

EQUAL BENEFITS ORDINANCE CERTIFICATION OF COMPLIANCE

Section 1. CONTRACTOR/VENDOR INFORMATION

Name: Galls, an ARAMARK Company, LLC	Federal Tax ID No.			
Address: 2789 Long Beach Boulevard				
City: Long Beach	State: CA ZIP: 90806			
Contact Person: Gregory Hodge	Telephone: (859) 266-7227 ext. 1101			
Email: hodge-greg@galls.com	Fax: (800) 944-2557			

Section 2. COMPLIANCE QUESTIONS

- A. The EBO is inapplicable to this Contract because the Contractor/Vendor has no employees. ____Yes _X_No
- B. Does your company provide (or make available at the employees' expense) any employee benefits? <u>x</u> Yes <u>No</u> (If "yes," proceed to Question C. If "no," proceed to section 5, as the EBO does not apply to you.)
- C. Does your company provide (or make available at the employees' expense) any benefits to the spouse of an employee?

X Yes No

D. Does your company provide (or make available at the employees' expense) any benefits to the domestic partner of an employee?

<u>x</u> Yes <u>No</u> (If you answered "no" to both questions C and D, proceed to section 5, as the EBO is not applicable to this contract. If you answered "yes" to both Questions C and D, please continue to Question E. If you answered "yes" to Question C and "no" to Question D, please continue to section 3.)

E. Are the benefits that are available to the spouse of an employee identical to the benefits that are available to the domestic partner of an employee? X Yes No

(If "yes," proceed to section 4, as you are in compliance with the EBO. If "no," continue to section 3.)

Section 3. PROVISIONAL COMPLIANCE

A. Contractor/vendor is not in compliance with the EBO now but will comply by the following date:

By the first effective date after the first open enrollment process following the contract start date, not to exceed two years, if the Contractor/vendor submits evidence of taking reasonable measures to comply with the EBO; or

_____ At such time that the administrative steps can be taken to incorporate nondiscrimination in benefits in the Contractor/vendor's infrastructure, not to exceed three months; or

_____ Upon expiration of the contractor's current collective bargaining agreement(s).

B. If you have taken all reasonable measures to comply with the EBO but are unable to do so, do you agree to provide employees with a cash equivalent? (The cash equivalent is the amount of money your company pays for spousal benefits that are unavailable for domestic partners.)
 Yes No

Section 4. <u>REQUIRED DOCUMENTATION</u>

At time of issuance of purchase order or contract award, you may be required by the City to provide documentation (copy of employee handbook, eligibility statement from your plans, insurance provider statement, etc.) to verify that you do not discriminate in the provision of benefits.

Section 5. CERTIFICATION

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that I am authorized to bind this entity contractually. By signing this certification, I further agree to comply with all additional obligations of the Equal Benefits Ordinance that are set forth in the Long Beach Municipal Code and in the terms of the contract of purchase order with the City.

Execut	ed this <u>14th</u> day of <u>November</u>	, 20 <u>11</u> , at	Lexington	, <u>KY</u>
Name_	Larry Dismukes	Signature		\diamond
Title	President	Federal Tax I	D No	

ATTACHMENT D

W9

Form W=9 (Rev. October 2007) Department of the Transury Internal Revenue Service

	Name (as shown on your income tax return)		and the second
e 7.	Galls, an ARAMARK Company LLC		
page	Business name, if different from above		and a second
ĥ	n/a		
or type ructions	Check appropriate box: Individual/Sole proprietor Corporation Partnership Limited liability company. Enter the tax classification (D=disregarded entity, C=corporation, P=p Other (see instructors) ►	partnership) ► .C	Exempl payee
Print Ic Insti	Address (number, street, and apt. cr suite no.) PO Box 100376	Requester's name and a	address (optional)
P Specific	City, state, and ZIP code	1	
Š [Pasadena, CA 91189-0376		
See	List account number(s) here (optional)	· · ·	
Part	Taxpayer Identification Number (TIN)		

Enter your TIN in the appropriate box. The TIN provided must match the name given on Line 1 to avoid backup withholding. For individuals, this is your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

Note. If the account is in more than one name, see the chart on page 4 for guidelines on whose

Social se	curity number	
	or	
Employar	Identification n	umber

Part II Certification

number to enter.

Under penalties of perjury, I certify that:

- 1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and
- 2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
- 3. I am a U.S. citizen or other U.S. person (defined below).

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debl, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the Certification, but you must provide your correct TIN. See the instructions on page 4.

Sign	Signature of		anna (9 <u>0000000000000000000000</u>
Here		-	Date March 23, 2011	

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Purpose of Form

A person who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, real estate transactions, mortgage interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN to the person requesting it (the requester) and, when applicable, to:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),

2. Certify that you are not subject to backup withholding, or

3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income.

Note. If a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

An Individual who is a U.S. citizen or U.S. resident alien,
A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States,

An estate (other than a foreign estate), or

 A domestic trust (as defined in Regulations section 301.7701-7).

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax on any foreign partners' share of income from such business. Further, in certain cases where a Form W-9 has not been received, a partnership is required to presume that a partner is a foreign person, and pay the withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid withholding on your share of partnership income.

The person who gives Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States is in the following cases:

The U.S. owner of a disregarded entity and not the entity,

ATTACHMENT E

DEBARMENT CERTIFICATION



ATTACHMENT

Debarment, Suspension, Ineligibility Certification

(Please read attached Acceptance of Certification and Instructions for Certification before completing)

This certification is required by federal regulations implementing Executive Order

- 1. The potential recipient of Federal assistance funds certifies, by submission of proposal, that:
 - Neither it nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency;
 - Have not within three (3) year period preceding this bid/agreement/proposal had a civil judgment rendered against them for commission of fraud or been convicted of a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property.
 - Are not presently or previously indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State, or local) with commission of any of the offenses enumerated in the above paragraph of this certification; and
 - Have not within a three (3) year period preceding this bid/agreement/proposal had one or more public (Federal, State, or local) transactions terminated for cause of default.
- 2. Where the potential prospective recipient of Federal assistance funds is unable to certify to any of the statement in this certification, such prospective participant shall attach an explanation to the applicable bid/agreement/proposal.

Signature of Authorized Representative

President

Title of Authorized Representative

Galls, an ARAMARK Company, LLC

Business/Contractor/ Agency

11/14/11 Date

City of Long Beach Business Relations – Purchasing Division

Acceptance of Certification

- 1. This bid/agreement/proposal or like document has the potential to be a recipient of Federal funds. In order to be in compliance with Code of Federal Regulations, the City requires this completed form. By signing and submitting this document, the prospective bidder/proposer is providing the certification and acknowledgement as follows:
- 2. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549.
- 3. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective recipient of Federal assistance funds knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.
- 4. The potential recipient of Federal assistance funds agrees by submitting this bid/agreement/proposal or like document that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

Instructions for completing the form, *Attachment –Debarment Certification*

- 1. The City of Long Beach sometimes receives Federal funding on certain purchases/projects. To ensure that the City is in compliance with Federal regulations we require this form to be completed.
- 2. The City of Long Beach checks the <u>Excluded Parties List System</u> at <u>www.epls.gov</u> to make sure that vendors who are awarded City contracts and/or purchase orders are not debarred or suspended. Prospective contractors should perform a search on this website for your company and or persons associated with your business. The finding that "Your search returned no results" is an indicator of compliance.
- 3. If your business is in compliance with the conditions in the form, please have the appropriate person complete and sign this form and return with your bid/proposal/agreement.
- 4. If at anytime, your business or persons associated with your business become debarred or suspend, we require that you inform us of this change in status.
- 5. If there are any exceptions to the certification, please include an attachment. Exceptions will not necessarily result in denial of award, but will be considered in determining bidder responsibility. For any exception, indicate to whom it applies, initiating agency and dates of action.
- 6. Note: Providing false information may result in criminal prosecution or administrative sanctions.

If you have any questions on how to complete this form, please contact the City of Long Beach, Business Relations, Purchasing Division at 562-570-6200.

PA-00412 POLICE DEPARTMENT UNIFORMS, ACCESSORIES & MISCELLANEOUS EQUIPMENT WEDNESDAY OCTOBER 12, 2011 9:00 A.M. MANDATORY PRE-BID CONFERENCE

·		MANDATORY PRE-		······································
	Name	Company	Phone	Email Address
1	JIM REING	L.N. CURTIS	909 908060	Jreing Olncustiscon
2	Mike Lec	QUARTERMASTER	562 500 3837	
3	JAMOS DINCAN	a preservaster	562-30-17348	Jaduncan @ gmusiforms. com
4	John Brown lee	Quartermaster	562 417 3237	Ubrownlee @ gmunifusms.cow
5	RYAN REYNOLDS	BLAVER MFG	2086310479	RREYNOLDS @ BLAUER.COM
6	Dave House	Galls	562-522-2313	house - davide galls. con
7	Loy Jarger	64/15	56-2-43-0927	Jacopr-Loy C Galls. com
8	TERESA BECK	Elbero	916-833-8847	TBECK & EIBERU
9	Woodysmith	Flying Cooss	714-262-6965	wsmith@fechheimer.com
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Approximately 45% of the items are uniforms, 45% of the items are accessories, and 10% of the items are body armor.

Ad created on 10/18/2011 and placed on the following publications

http://www.dbegoodfaith.com

http://trade.dbegoodfaith.com

Focus Journal Ad

Published on www.dbegoodfaith.com, 10/18/2011 at 9:36AM

Estimator

Project Coordinator Melissa Castro

Contact Information 2789 Long Beach Blvd. Long Beach, CA 90806 Tel: 562-424-4646 Fax: 562-424-4654

Galls, an ARAMARK Co., LLC

is seeking qualified SBE,VSBE, LSBEs

Project Name

Uniforms, Accessories, & Miscellaneous Equipment (Police Department)

Awarding Agency City of Long Beach

Project Location

Long Beach, Los Angeles, CA

Bid Date & Time

11/03/2011 at 11:00 A.M

Bid/Contract

PA-01408

Project Details

We are looking for SBEs, VSBEs, and LSBEs to provide price quotes for assistance in providing Uniforms, Accessories, & Miscellaneous Equipment (Police Department) including body armor for the City of Long Beach. Approximately 45% of the items are uniforms, 45% of the items are accessories, and 10% of the items are body armor. We are also looking for price quotes for courier services to ship the items. This is in response to the City of Long Beach's Invitation to Bid #PA-01408 for Uniforms, Accessories, & Miscellaneous Equipment (Police Department).

We are an equal opportunity employer. The plans and specs are available for your review at our office. Bonds will not be required from qualified subcontractors.

Page 2 / 3

Trade Journ Published on www		\d e.dbegoodfaith.com, 10/18/201	I1 at 9:36AM
		Trade Journa	al Ad
Galls, an ARAMARK C	o., LLC	is Seeking Qualified	SBE,VSBE, LSBE
		Bid Due Date : 11/03/2011 at 11:00 Contact Estimate	
Project Name	:	Uniforms, Accessories, & Misce	Ilaneous Equipment (Police Department)
Agency Name	:	City of Long Beach	
Project City	:	Long Beach	
Project County	:	Los Angeles	
Project State	:	CA	
Project Details	:		
Accessories, & Miscel Approximately 45% of armor. We are also lo	laneou the ite oking fo	s Equipment (Police Department) inc ms are uniforms, 45% of the items a pr price quotes for courier services to	otes for assistance in providing Uniforms, cluding body armor for the City of Long Beach. re accessories, and 10% of the items are body o ship the items. This is in response to the City of ies, & Miscellaneous Equipment (Police
Contact Details	:	Melissa Castro	
		2789 Long Beach Blvd.	
		Long Beach, CA 90806	
		Tel: 562-424-4646	
		Fax: 562-424-4654	
We are an equal oppo be required from qual	ortunity ified su	employer. The plans and specs are bcontractors.	available for your review at our office. Bonds will not

Company Name	Address	City	State	Zip	Contact	Einoaidible MBEs	Phone	Fax	Business Type	NIGP	NAICS	
BIG Studio		Signal Hill	CA		MITCH KRON	mitch@bigstudio.com	562-989-2444	562-989-2447	OSB	20000-CLOTHING, APPAREL, LIMIEORMS A. 96600-PRINTING AND RELATED	323113-Commercial Screen Printing	
embroidme	4250 atlantic ave	long beach	CA	90807		longbeachwest@embroidme.com	562-997-0240	562-997-0239	WBE	91001-Acoustical Ceilings and	-	
embroidine	+250 adamic ave	са								08000-BADGES, EMBLEMS, NAME TAGS AND	SS99999-Air Outer Miscenarieous Manufacturing 621699-Air Outer Miscenarieous	
										08500-BAGS, BAGGING, TIES, AND EROSI	Schools and Instruction	
										20000-CLOTHING, APPAREL, UNIFORMS, A	Store Retailers (except Tobacco Stores)	
										91500-COMMUNICATIONS AND		
										25500-DECALS AND STAMPS		
		-								26500-DRAPERIES, CURTAINS,		
									34500-FIRST AID AND SAFETY ECHIPMENT 51000-LAUNDRY TEXTILES AND SUPPLIES			
										SUPPLIES		
										52000-LEATHER AND RELATED		
										55000-MARKERS, PLAQUES AND		
										55500-MARKING AND STENCILING		
										59000-NOTIONS AND RELATED SEMING ACC 64500-PAPER (FOR OFFICE AND		
										PRINT SH 73500-RAGS, SHOP TOWELS, AND		
										WIPING	315299*All Other Cut and Sew	
JALLOS SYSTEMS,	3201 N. Alameda St.	Compton	CA		G. BERNARD	gbbrown1906@aol.com	310-605-4910	310-605-4914	MBE	80000-SHOES AND BOOTS	Apparel Manufacturing	
INCORPORATED	Suite A				BROWN					34500-FIRST AID AND SAFETY EQUIPMENT	Manufacturing	
•											57800-MISCELLANEOUS PRODUCTS	Hospital Equipment and Supplies Merchant Wholesalers
											98300-RENTAL/LEASE CLOTHING 8 JANITORIAL EQUIP	Manufacturing
			-							20000-CLOTHING, APPAREL, UNIFORMS, A	Nondurable Goods Merchant Wholesalers	
Blue Goose Uniforms a Division of JCM and	5443 E. Washington Blvd.	Commerce	CA	90040-2105	RICHARD CRADY	richard@bluegooseuniforms.com	323-726-9040	323-726-8643	MBE,DBE	20000-CLOTHING, APPAREL, UNIFORMS, A	448150-Clothing Accessories Stores	
Tactical Force Gear	501 S. Spring Street,	Los Angeles	CA	90013		Jbiscailuz@tacticalforcegear.com	310-570-3727	480-247-4297		-	448150-Clothing Accessorles	
	201		1							20000-CLOTHING, APPAREL,	Stores	

From:	Mitch Kron [mitch@bigstudio.com]
-------	----------------------------------

Sent: Friday, October 21, 2011 12:40 PM

To: Castro, Melissa

Subject: Re: Bid #PA-01408 Uniforms, Accessories, & Miscellaneous Equipment (Police Department) for the City of Long Beach

Melissa,

We appreciate the opportunity to participate in this bid process for Long Beach Police Department uniforms, accessories & miscellaneous equipment. Unfortunately we will not be able to quote #PA-01408 because we do not supply these types of materials. Thank you again for your consideration.

Regards,

Mitch Kron / BIG Studio Inc. 1247 E Hill Street / Signal Hill, CA 90755 Phone 562 989-2444 x23 / Fax 562 989-2447 <u>mitch@bigstudio.com</u> www.bigstudio.com

----- Original Message -----From: <u>Castro, Melissa</u> To: <u>mitch@bigstudio.com</u> Sent: Thursday, October 20, 2011 4:06 PM Subject: Bid #PA-01408 Uniforms, Accessories, & Miscellaneous Equipment (Police Department) for the City of Long Beach

Hi Mitch,

Please see attached request for quote for Bid #PA-01408 for Uniforms, Accessories, & Miscellaneous Equipment (Police Department) for the City of Long Beach. Would you be able to respond?

Thank you,

Melissa Castro | Contracts Manager | Galls, Inc. 2789 Long Beach Boulevard | Long Beach, CA 90806 | 🕿: 562.424.4646 ext. 46 | Cell 🕿: 562.305.6176 | 🖃: 562-424-4654 | 🖂: castro-melissa@galls.com | www.galls.com

From: Castro, Melissa

Sent: Thursday, October 20, 2011 4:06 PM

To: 'mitch@bigstudio.com'

Subject: Bid #PA-01408 Uniforms, Accessories, & Miscellaneous Equipment (Police Department) for the City of Long Beach

Hi Mitch,

Please see attached request for quote for Bid #PA-01408 for Uniforms, Accessories, & Miscellaneous Equipment (Police Department) for the City of Long Beach. Would you be able to respond?

Thank you,

Melissa Castro | Contracts Manager | Galls, Inc.

2789 Long Beach Boulevard | Long Beach, CA 90806 | Science 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10 - 2015 10



October 20, 2011

BIG Studio 1247 E. Hill Street Signal Hill, CA 90755 Attn: Mitch Kron

Dear Mr. Kron:

We are looking for SBEs, VSBEs, and LSBEs to provide price quotes for assistance in providing Uniforms, Accessories, & Miscellaneous Equipment (Police Department) including body armor for the City of Long Beach. Approximately 45% of the items are uniforms, 45% of the items are accessories, and 10% of the items are body armor. We are also looking for price quotes for courier services to ship the items. This is in response to the City of Long Beach's Invitation to Bid #PA-01408 for Uniforms, Accessories, & Miscellaneous Equipment (Police Department). We are also looking for price quotes for courier services to ship the items. Accessories for courier services to ship the items. Would you kindly provide us with a price quote for any of the products or services listed above that you would be able to provide? This is in response to the City of Long Beach's Invitation to Bid #PA-01408 for Uniforms, Accessories, Accessories, & Miscellaneous Equipment (Police Department). If you are interested in providing a quote, please contact me via phone, fax or e-mail, and I will immediately send you the specifics via fax or e-mail.

Any assistance that can be provided would be appreciated. Please send to:

Galls, an ARAMARK Co., LLC Attn: Melissa Castro, Contracts Manager 2789 Long Beach Boulevard Long Beach, CA 90806 Phone: (562) 424-4646 ext. 46 Fax: (562) 424-4654 Email: castro-melissa@galls.com

Sincerely,

Melissa Castro Contracts Manager Galls, an ARAMARK Company, LLC

2700 Junipero Avenue | Signal Hill, California 90755 | 888.424.3938 | fax: 562.424.4649

From: EmbroidMe [embroidme562@gmail.com]

Sent: Tuesday, November 01, 2011 10:47 AM

To: Castro, Melissa

Subject: Re: Request for quote for Bid #PA-01408 for Uniforms, Accessories, & Miscellaneous Equipment

Ok

Thanks

On Mon, Oct 31, 2011 at 2:21 PM, Castro, Melissa < Castro-Melissa@galls.com > wrote:

Sooner is better, but no later than Wednesday, November 9. Thank you!

Thank you,

Melissa Castro | Contracts Manager | Galls, Inc.

2789 Long Beach Boulevard | Long Beach, CA 90806 | 2: 562.424.4646 ext. 46 | Cell 2: 562.305.6176 | 2: 562-424-4654 | X: castro-melissa@galls.com | www.galls.com

-----Original Message----- **From:** EmbroidMe [mailto:<u>embroidme562@gmail.com]</u> **Sent:** Monday, October 31, 2011 2:03 PM **To:** Castro, Melissa **Subject:** Re: Request for quote for Bid #PA-01408 for Uniforms, Accessories, & Miscellaneous Equipment

Hi

When do you need the quote?

On Mon, Oct 31, 2011 at 3:42 PM, Castro, Melissa <<u>Castro-Melissa@galls.com</u>> wrote:

Hi Martie,

Here is the letter I sent previously along with the product list. Please let me know if you will be able to provide a quote.

Thank you,

Melissa Castro | Contracts Manager | Galls, Inc.

2789 Long Beach Boulevard | Long Beach, CA 90806 | [@]: <u>562.424.4646</u> **ext. 46 | Cell [@]**: <u>562.305.6176 | </u>**[@]**: <u>562-424-4654 | **[©]**: <u>castro-melissa@galls.com | www.galls.com</u></u>

--EmbroidMe 4250 Atlantic Ave. Long Beach, CA. 90807 embroidme562@gmail.com Phone (562)997-0240 Fax (562)997-0239

EmbroidMe 4250 Atlantic Ave. Long Beach, CA. 90807 embroidme562@gmail.com Phone (562)997-0240 Fax (562)997-0239

From: Castro, Melissa

Sent: Monday, October 31, 2011 2:22 PM

To: 'EmbroidMe'

Subject: RE: Request for quote for Bid #PA-01408 for Uniforms, Accessories, & Miscellaneous Equipment

Sooner is better, but no later than Wednesday, November 9. Thank you!

Thank you,

Melissa Castro | Contracts Manager | Galls, Inc. 2789 Long Beach Boulevard | Long Beach, CA 90806 | S: 562.424.4646 ext. 46 | Cell S: 562.305.6176 | S: 562-424-4654 | S: castro-melissa@galls.com | www.galls.com -----Original Message-----

From: EmbroidMe [mailto:embroidme562@gmail.com] Sent: Monday, October 31, 2011 2:03 PM To: Castro, Melissa Subject: Re: Request for quote for Bid #PA-01408 for Uniforms, Accessories, & Miscellaneous Equipment

Hi

When do you need the quote?

On Mon, Oct 31, 2011 at 3:42 PM, Castro, Melissa <<u>Castro-Melissa@galls.com</u>> wrote: Hi Martie,

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Thank you,

 Melissa Castro | Contracts Manager | Galls, Inc.

 2789 Long Beach Boulevard | Long Beach, CA 90806 | ☎: 562.424.4646 ext. 46 | Cell ☎: 562.305.6176

 | 글: 562-424-4654 | ⊠: castro-melissa@galls.com | www.galls.com

EmbroidMe 4250 Atlantic Ave. Long Beach, CA. 90807 embroidme562@gmail.com Phone (562)997-0240 Fax (562)997-0239

From: Castro, Melissa

Sent: Thursday, October 20, 2011 4:07 PM

To: 'longbeachwest@embroidme.com'

Subject: Request for quote for Bid #PA-01408 for Uniforms, Accessories, & Miscellaneous Equipment (Police Department) for the City of Long Beach

Please see attached request for quote for Bid #PA-01408 for Uniforms, Accessories, & Miscellaneous Equipment (Police Department) for the City of Long Beach. Would you be able to respond?

Thank you,

Melissa Castro | Contracts Manager | Galls, Inc.

2789 Long Beach Boulevard | Long Beach, CA 90806 | 3: 562.424.4646 ext. 46 | Cell 3: 562.305.6176 | 2: 562-424-4654 | 2: castro-melissa@galls.com | www.galls.com

From: EmbroidMe [embroidme562@gmail.com]

Sent: Monday, October 31, 2011 2:03 PM

To: Castro, Melissa

Subject: Re: Request for quote for Bid #PA-01408 for Uniforms, Accessories, & Miscellaneous Equipment

Hi

When do you need the quote?

On Mon, Oct 31, 2011 at 3:42 PM, Castro, Melissa <<u>Castro-Melissa@galls.com</u>> wrote:

Hi Martie,

Here is the letter I sent previously along with the product list. Please let me know if you will be able to provide a quote.

Thank you,

Melissa Castro | Contracts Manager | Galls, Inc.

2789 Long Beach Boulevard | Long Beach, CA 90806 | State 2562.424.4646 ext. 46 | Cell State 2562.305.6176 | State 2562.424.4654 | State 2562.424 |

EmbroidMe 4250 Atlantic Ave. Long Beach, CA. 90807 embroidme562@gmail.com Phone (562)997-0240 Fax (562)997-0239

From: Castro, Melissa

Sent: Monday, October 31, 2011 1:42 PM

To: 'embroidme562@gmail.com'

Subject: Request for quote for Bid #PA-01408 for Uniforms, Accessories, & Miscellaneous Equipment

Hi Martie,

Here is the letter I sent previously along with the product list. Please let me know if you will be able to provide a quote.

Thank you,

Melissa Castro | Contracts Manager | Galls, Inc.

2789 Long Beach Boulevard | Long Beach, CA 90806 | 🖀: 562.424.4646 ext. 46 | Cell 🕿: 562.305.6176 | 😑: 562-424-4654 | 🖂: castro-melissa@galls.com | www.galls.com



October 20, 2011

EmbroidMe 4250 Atlantic Avenue Long Beach, CA 90807

To Whom It May Concern:

We are looking for SBEs, VSBEs, and LSBEs to provide price quotes for assistance in providing Uniforms, Accessories, & Miscellaneous Equipment (Police Department) including body armor for the City of Long Beach. Approximately 45% of the items are uniforms, 45% of the items are accessories, and 10% of the items are body armor. We are also looking for price quotes for courier services to ship the items. This is in response to the City of Long Beach's Invitation to Bid #PA-01408 for Uniforms, Accessories, & Miscellaneous Equipment (Police Department). We are also looking for price quotes for courier services to ship the items are price quotes for courier services to ship the items. Would you kindly provide us with a price quote for any of the products or services listed above that you would be able to provide? This is in response to the City of Long Beach's Invitation to Bid #PA-01408 for Uniforms, Accessories, & Accessories, & Miscellaneous Equipment (Police Department). If you are interested in providing a quote, please contact me via phone, fax or e-mail, and I will immediately send you the specifics via fax or e-mail.

Any assistance that can be provided would be appreciated. Please send to:

Galls, an ARAMARK Co., LLC Attn: Melissa Castro, Contracts Manager 2789 Long Beach Boulevard Long Beach, CA 90806 Phone: (562) 424-4646 ext. 46 Fax: (562) 424-4654 Email: castro-melissa@galls.com

Sincerely,

Melissa Castro Contracts Manager Galls, an ARAMARK Company, LLC

Page 1 of 1

Castro, Melissa

From: Castro, Melissa

Sent: Tuesday, November 15, 2011 10:40 AM

To: 'gbbrown1906@aol.com'

Subject: FW: Product Listing

Hi Bernard,

Please see below and attached the request I just talked to you about on the phone. Would you kindly respond as soon as possible?

Thank you,

Melissa Castro | Contracts Manager | Galls, Inc. 2789 Long Beach Boulevard | Long Beach, CA 90806 | 🖀: 562.424.4646 ext. 46 | Cell 🕿: 562.305.6176 | 🖙: 562-424-4654 | 🖂: castro-melissa@galls.com | www.galls.com -----Original Message-----From: Castro, Melissa Sent: Thursday, October 20, 2011 4:32 PM To: 'gbbrown1906@aol.com' Subject: Product Listing

Hi Mr. Brown,

Thank you for your quick response. Please see attached the product listing from the bid.

Thank you,

Melissa Castro | Contracts Manager | Galls, Inc.

2789 Long Beach Boulevard | Long Beach, CA 90806 | 🖀: 562.424.4646 ext. 46 | Cell 🕿: 562.305.6176 | 🖃: 562-424-4654 | 🖂: castro-melissa@galls.com | www.galls.com

From: Castro, Melissa

Sent: Thursday, October 20, 2011 4:32 PM

To: 'gbbrown1906@aol.com'

Subject: Product Listing

Hi Mr. Brown,

Thank you for your quick response. Please see attached the product listing from the bid.

Thank you,

Melissa Castro | Contracts Manager | Galls, Inc. 2789 Long Beach Boulevard | Long Beach, CA 90806 | Science 2562.424.4646 ext. 46 | Cell Science 2562.305.6176 | Science 2562-424-4654 | Science 2008 - S

From: Castro, Melissa

Sent: Thursday, October 20, 2011 4:08 PM

To: 'gbbrown1906@aol.com'

Subject: Request for quote for Bid #PA-01408 for Uniforms, Accessories, & Miscellaneous Equipment (Police Department) for the City of Long Beach

Hi Mr. Brown,

Please see attached request for quote for Bid #PA-01408 for Uniforms, Accessories, & Miscellaneous Equipment (Police Department) for the City of Long Beach. Would you be able to respond?

Thank you,

Melissa Castro | Contracts Manager | Galls, Inc.

2789 Long Beach Boulevard | Long Beach, CA 90806 | @: 562.424.4646 ext. 46 | Cell @: 562.305.6176 | @: 562-424-4654 | 🖂: castro-melissa@galls.com | www.galls.com



October 20, 2011

Jallos Systems, Inc. 3201 N. Alameda St. Suite A Compton, CA 90222 Attention: G. Bernard Brown

Dear Mr. Brown:

We are looking for SBEs, VSBEs, and LSBEs to provide price quotes for assistance in providing Uniforms, Accessories, & Miscellaneous Equipment (Police Department) including body armor for the City of Long Beach. Approximately 45% of the items are uniforms, 45% of the items are accessories, and 10% of the items are body armor. We are also looking for price quotes for courier services to ship the items. This is in response to the City of Long Beach's Invitation to Bid #PA-01408 for Uniforms, Accessories, & Miscellaneous Equipment (Police Department). We are also looking for price quotes for courier services to ship the items are also looking for price quotes for courier services to ship the items. Would you kindly provide us with a price quote for any of the products or services listed above that you would be able to provide? This is in response to the City of Long Beach's Invitation to Bid #PA-01408 for Uniforms, Accessories, & Accessories, & Miscellaneous Equipment (Police Department). If you are interested in providing a quote, please contact me via phone, fax or e-mail, and I will immediately send you the specifics via fax or e-mail.

Any assistance that can be provided would be appreciated. Please send to:

Galls, an ARAMARK Co., LLC Attn: Melissa Castro, Contracts Manager 2789 Long Beach Boulevard Long Beach, CA 90806 Phone: (562) 424-4646 ext. 46 Fax: (562) 424-4654 Email: castro-melissa@galls.com

Sincerely,

Melissa Castro Contracts Manager Galls, an ARAMARK Company, LLC

2700 Junipero Avenue | Signal Hill, California 90755 | 888.424.3938 | fax: 562.424.4649

From: Castro, Melissa

Sent: Friday, October 21, 2011 1:22 PM

To: 'richard@bluegooseuniforms.com'

Subject: RE: Request for quote for Bid #PA-01408 for Uniforms, Accessories, & Miscellaneous Equipment (Police Department) for the City of Long Beach

Hi Richard,

Please see attached.

Thank you,

Melissa Castro | Contracts Manager | Galls, Inc. 2789 Long Beach Boulevard | Long Beach, CA 90806 | 🕿: 562.424.4646 ext. 46 | Cell 🕿: 562.305.6176 | 🔤: 562-424-4654 | 🖂: castro-melissa@galls.com | www.galls.com

-----Original Message-----

From: richard@bluegooseuniforms.com [mailto:richard@bluegooseuniforms.com]
Sent: Friday, October 21, 2011 12:38 PM
To: Castro, Melissa
Subject: RE: Request for quote for Bid #PA-01408 for Uniforms, Accessories, & Miscellaneous Equipment (Police Department) for the City of Long Beach

Hi Melissa:

Ok. Please send the product list. Thanks.

Richard Crady Blue Goose Uniforms Uniform Connection JCM & Associates, Inc. 800-543-3732 http://www.bluegooseuniforms.com

From: Castro, Melissa [mailto:Castro-Melissa@galls.com]
Sent: Friday, October 21, 2011 12:25 PM
To: richard@bluegooseuniforms.com
Subject: RE: Request for quote for Bid #PA-01408 for Uniforms, Accessories, & Miscellaneous Equipment (Police Department) for the City of Long Beach

Hi Richard,

We are bidding on the project – I am asking if you would be willing to provide quotes to us. Would you like to see the product list?

Thank you,

Melissa Castro | Contracts Manager | Galls, Inc. 2789 Long Beach Boulevard | Long Beach, CA 90806 | 🖀: 562.424.4646 ext. 46 | Cell 🕿: 562.305.6176 | 🖅: 562-424-4654 | 🖂: castro-melissa@galls.com | www.galls.com

-----Original Message-----

From: richard@bluegooseuniforms.com [mailto:richard@bluegooseuniforms.com] Sent: Friday, October 21, 2011 12:26 PM To: Castro, Melissa

Subject: RE: Request for quote for Bid #PA-01408 for Uniforms, Accessories, & Miscellaneous Equipment (Police Department) for the City of Long Beach

Hi Melissa:

Not sure exactly how we could work together on this. But, we could consider bidding on the project, if that is the intent of the letter. Thanks.

Richard Crady Blue Goose Uniforms Uniform Connection JCM & Associates, Inc. 800-543-3732 http://www.bluegooseuniforms.com

From: Castro, Melissa [mailto:Castro-Melissa@galls.com]
Sent: Thursday, October 20, 2011 4:09 PM
To: richard@bluegooseuniforms.com
Subject: Request for quote for Bid #PA-01408 for Uniforms, Accessories, & Miscellaneous Equipment (Police Department) for the City of Long Beach

Hi Mr. Crady,

Please see attached request for quote for Bid #PA-01408 for Uniforms, Accessories, & Miscellaneous Equipment (Police Department) for the City of Long Beach. Would you be able to respond?

Thank you,

Melissa Castro | Contracts Manager | Galls, Inc. 2789 Long Beach Boulevard | Long Beach, CA 90806 | 🕿: 562.424.4646 ext. 46 | Cell 🕿: 562.305.6176 | 🖃: 562-424-4654 | 🖂: castro-melissa@galls.com | www.galls.com

From: richard@bluegooseuniforms.com

Sent: Friday, October 21, 2011 12:38 PM

To: Castro, Melissa

Subject: RE: Request for quote for Bid #PA-01408 for Uniforms, Accessories, & Miscellaneous Equipment (Police Department) for the City of Long Beach

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From: Castro, Melissa [mailto:Castro-Melissa@galls.com] **Sent:** Friday, October 21, 2011 12:25 PM

To: richard@bluegooseuniforms.com

Subject: RE: Request for quote for Bid #PA-01408 for Uniforms, Accessories, & Miscellaneous Equipment (Police Department) for the City of Long Beach

Hi Richard,

We are bidding on the project – I am asking if you would be willing to provide quotes to us. Would you like to see the product list?

Thank you,

Melissa Castro | Contracts Manager | Galls, Inc. 2789 Long Beach Boulevard | Long Beach, CA 90806 | 🕿: 562.424.4646 ext. 46 | Cell 🕿: 562.305.6176 | 😑: 562-424-4654 | 🖂: castro-melissa@galls.com | www.galls.com

-----Original Message-----

From: richard@bluegooseuniforms.com [mailto:richard@bluegooseuniforms.com]
Sent: Friday, October 21, 2011 12:26 PM
To: Castro, Melissa
Subject: RE: Request for quote for Bid #PA-01408 for Uniforms, Accessories, & Miscellaneous Equipment (Police Department) for the City of Long Beach

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Richard Crady Blue Goose Uniforms Uniform Connection JCM & Associates, Inc. 800-543-3732 http://www.bluegooseuniforms.com From: Castro, Melissa [mailto:Castro-Melissa@galls.com]
Sent: Thursday, October 20, 2011 4:09 PM
To: richard@bluegooseuniforms.com
Subject: Request for quote for Bid #PA-01408 for Uniforms, Accessories, & Miscellaneous Equipment (Police Department) for the City of Long Beach

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Thank you,

Melissa Castro | Contracts Manager | Galls, Inc. 2789 Long Beach Boulevard | Long Beach, CA 90806 | 2: 562.424.4646 ext. 46 | Cell 2: 562.305.6176 | 2: 562-424-4654 | 2: castro-melissa@galls.com | www.galls.com

From:	richard@bluegooseuniforms.com
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Sent: Friday, October 21, 2011 12:26 PM

To: Castro, Melissa

Subject: RE: Request for quote for Bid #PA-01408 for Uniforms, Accessories, & Miscellaneous Equipment (Police Department) for the City of Long Beach

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Richard Crady Blue Goose Uniforms Uniform Connection JCM & Associates, Inc. 800-543-3732 http://www.bluegooseuniforms.com

From: Castro, Melissa [mailto:Castro-Melissa@galls.com]
Sent: Thursday, October 20, 2011 4:09 PM
To: richard@bluegooseuniforms.com
Subject: Request for quote for Bid #PA-01408 for Uniforms, Accessories, & Miscellaneous Equipment (Police Department) for the City of Long Beach

Hi Mr. Crady,

Please see attached request for quote for Bid #PA-01408 for Uniforms, Accessories, & Miscellaneous Equipment (Police Department) for the City of Long Beach. Would you be able to respond?

Thank you,

Melissa Castro | Contracts Manager | Galls, Inc. 2789 Long Beach Boulevard | Long Beach, CA 90806 | 🖀: 562.424.4646 ext. 46 | Cell 🖀: 562.305.6176 | 😑: 562-424-4654 | 🖂: castro-melissa@galls.com | www.galls.com

From: Castro, Melissa

Sent: Friday, October 21, 2011 12:25 PM

To: 'richard@bluegooseuniforms.com'

Subject: RE: Request for quote for Bid #PA-01408 for Uniforms, Accessories, & Miscellaneous Equipment (Police Department) for the City of Long Beach

Hi Richard,

We are bidding on the project – I am asking if you would be willing to provide quotes to us. Would you like to see the product list?

Thank you,

Melissa Castro | Contracts Manager | Galls, Inc. 2789 Long Beach Boulevard | Long Beach, CA 90806 | 2: 562.424.4646 ext. 46 | Cell 2: 562.305.6176 | 2: 562-424-4654 | Cell 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305.6176 | 2: 562.305 | 2: 562.305 | 2: 562.305 | 2: 562.305 | 2: 562.305 | 2: 562.305 | 2: 562.305 | 2: 562.305 | 2: 562.305 | 2: 562.305 | 2: 562.305 | 2: 562.305 | 2: 562.305 |

From: richard@bluegooseuniforms.com [mailto:richard@bluegooseuniforms.com] Sent: Friday, October 21, 2011 12:26 PM To: Castro, Melissa Subject: RE: Request for quote for Bid #PA-01408 for Uniforms, Accessories, & Miscellaneous Equipment (Police Department) for the City of Long Beach

Hi Melissa:

Not sure exactly how we could work together on this. But, we could consider bidding on the project, if that is the intent of the letter. Thanks.

Richard Crady Blue Goose Uniforms Uniform Connection JCM & Associates, Inc. 800-543-3732 http://www.bluegooseuniforms.com

From: Castro, Melissa [mailto:Castro-Melissa@galls.com]
Sent: Thursday, October 20, 2011 4:09 PM
To: richard@bluegooseuniforms.com
Subject: Request for quote for Bid #PA-01408 for Uniforms, Accessories, & Miscellaneous Equipment (Police Department) for the City of Long Beach

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Thank you,

Melissa Castro | Contracts Manager | Galls, Inc. 2789 Long Beach Boulevard | Long Beach, CA 90806 | 🖀: 562.424.4646 ext. 46 | Cell 🕿: 562.305.6176 | 🖃: 562-424-4654 | 🖂: castro-melissa@galls.com | www.galls.com

From: Castro, Melissa

Sent: Thursday, October 20, 2011 4:09 PM

To: 'richard@bluegooseuniforms.com'

Subject: Request for quote for Bid #PA-01408 for Uniforms, Accessories, & Miscellaneous Equipment (Police Department) for the City of Long Beach

Hi Mr. Crady,

Please see attached request for quote for Bid #PA-01408 for Uniforms, Accessories, & Miscellaneous Equipment (Police Department) for the City of Long Beach. Would you be able to respond?

Thank you,

Melissa Castro | Contracts Manager | Galls, Inc.

2789 Long Beach Boulevard | Long Beach, CA 90806 | 🖀: 562.424.4646 ext. 46 | Cell 🖀: 562.305.6176 | 😑: 562-424-4654 | 🖂: castro-melissa@galls.com | www.galls.com



October 20, 2011

Blue Goose Uniforms, a Division of JCM and Associates 5443 E. Washington Blvd. Commerce, CA 90040-2105 Attention: Richard Crady

Dear Mr. Crady:

We are looking for SBEs, VSBEs, and LSBEs to provide price quotes for assistance in providing Uniforms, Accessories, & Miscellaneous Equipment (Police Department) including body armor for the City of Long Beach. Approximately 45% of the items are uniforms, 45% of the items are accessories, and 10% of the items are body armor. We are also looking for price quotes for courier services to ship the items. This is in response to the City of Long Beach's Invitation to Bid #PA-01408 for Uniforms, Accessories, & Miscellaneous Equipment (Police Department). We are also looking for price quotes for courier services to ship the items are accessories, and 10% of the products or services to ship the items. Would you kindly provide us with a price quote for any of the products or services listed above that you would be able to provide? This is in response to the City of Long Beach's Invitation to Bid #PA-01408 for Uniforms, Accessories, Accessories, & Miscellaneous Equipment (Police Department). If you are interested in providing a quote, please contact me via phone, fax or e-mail, and I will immediately send you the specifics via fax or e-mail.

Any assistance that can be provided would be appreciated. Please send to:

Galls, an ARAMARK Co., LLC Attn: Melissa Castro, Contracts Manager 2789 Long Beach Boulevard Long Beach, CA 90806 Phone: (562) 424-4646 ext. 46 Fax: (562) 424-4654 Email: castro-melissa@galls.com

Sincerely,

Melissa Castro Contracts Manager Galls, an ARAMARK Company, LLC

From:Castro, MelissaSent:Monday, October 31, 2011 1:34 PM

To: 'Jbiscailuz@tacticalforcegear.com'

Subject: Product List

Here is the product list from the LBPD bid for uniforms and equipment. Please let me know if you will be able to quote this opportunity.

Thank you,

Melissa Castro | Contracts Manager | Galls, Inc.

2789 Long Beach Boulevard | Long Beach, CA 90806 | 🖀: 562.424.4646 ext. 46 | Cell 🖀: 562.305.6176 | 🖃: 562-424-4654 | 🖂: castro-melissa@galls.com | www.galls.com

From:	Castro, Meliss	sa
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Sent: Thursday, October 20, 2011 4:09 PM

To: 'Jbiscailuz@tacticalforcegear.com'

Subject: Request for quote for Bid #PA-01408 for Uniforms, Accessories, & Miscellaneous Equipment (Police Department) for the City of Long Beach

Please see attached request for quote for Bid #PA-01408 for Uniforms, Accessories, & Miscellaneous Equipment (Police Department) for the City of Long Beach. Would you be able to respond?

Thank you,

Melissa Castro | Contracts Manager | Galls, Inc.

2789 Long Beach Boulevard | Long Beach, CA 90806 | 🖀: 562.424.4646 ext. 46 | Cell 🖀: 562.305.6176 | 🖃: 562-424-4654 | 🖂: castro-melissa@galls.com | www.galls.com



October 20, 2011

Tactical Force Gear 501 S. Spring Street, 201 Los Angeles, CA 90013

Dear To Whom It May Concern:

We are looking for SBEs, VSBEs, and LSBEs to provide price quotes for assistance in providing Uniforms, Accessories, & Miscellaneous Equipment (Police Department) including body armor for the City of Long Beach. Approximately 45% of the items are uniforms, 45% of the items are accessories, and 10% of the items are body armor. We are also looking for price quotes for courier services to ship the items. This is in response to the City of Long Beach's Invitation to Bid #PA-01408 for Uniforms, Accessories, & Miscellaneous Equipment (Police Department). We are also looking for price quotes for courier services to ship the items are price quotes for courier services to ship the items. Would you kindly provide us with a price quote for any of the products or services listed above that you would be able to provide? This is in response to the City of Long Beach's Invitation to Bid #PA-01408 for Uniforms, Accessories, & Accessories, & Miscellaneous Equipment (Police Department). If you are interested in providing a quote, please contact me via phone, fax or e-mail, and I will immediately send you the specifics via fax or e-mail.

Any assistance that can be provided would be appreciated. Please send to:

Galls, an ARAMARK Co., LLC Attn: Melissa Castro, Contracts Manager 2789 Long Beach Boulevard Long Beach, CA 90806 Phone: (562) 424-4646 ext. 46 Fax: (562) 424-4654 Email: castro-melissa@galls.com

Sincerely,

Melissa Castro Contracts Manager Galls, an ARAMARK Company, LLC

Call Log

Company	Telephone	Contact	Who Called	Time	Date	Result
BIG Studio	(562) 989-2444	Mitch Kron	Melissa	4:06 PM	10/20/2011	Emailed request - Awaiting response
Embroidme	(562) 997-0240		Melissa			Emailed request - Awaiting response
Jallos Systems, Inc.	(310) 605-4910	G. Bernard Brown	Melissa	4:08 PM		Emailed request - Awaiting response
	(323) 726-9040	Richard Crady	Melissa	4:09 PM		Emailed request - Awaiting response
Tactical Force Gear	(310) 570-3727	Mr. Biscailuz	Melissa			Emailed request - Awaiting response
Jallos Systems, Inc.	(310) 605-4910	G. Bernard Brown	G. Bernard			Requested product list
Jallos Systems, Inc.	(310) 605-4910	G. Bernard Brown	Melissa			Emailed product list
Blue Goose Uniforms	(323) 726-9040	Richard Crady	Richard			Emailed clarification request
Blue Goose Uniforms	(323) 726-9040	Richard Crady	Melissa			Emailed clarification
Blue Goose Uniforms	(323) 726-9040	Richard Crady	Richard			Emailed request for product list
BIG Studio	(562) 989-2444	Mitch Kron	Mitch			Cannot quote this opportunity
Blue Goose Uniforms	(323) 726-9040	Richard Crady	Melissa			Emailed product list
Tactical Force Gear	(310) 570-3727	Mr. Biscailuz	Mr. Biscailuz	8:59 AM		Called requesting product list
Tactical Force Gear	(310) 570-3727	Mr. Biscailuz	Melissa	1:34 PM		Emailed product list
	(562) 997-0240		Melissa	1:40 PM		Called - email not received - was given new email address
	(562) 997-0240		Melissa			Emailed original letter & product list
Jallos Systems, Inc.	(310) 605-4910	G. Bernard Brown	Melissa			Does not recall request - resend via email
	(323) 726-9040	Richard Crady	Melissa			Unable to quote - will send email to confirm
	(310) 570-3727		Melissa	10:35 AM	11/15/2011	Will check with staff
	<u>`</u>					Stated she responded via email, not received. Requested
Embroidme	(562) 997-0240	Martie	Melissa	10:36 AM	11/15/2011	that she resend response.
		G. Bernard Brown	Melissa	10:40 AM	11/15/2011	Resent quote request via email
	(310) 605-4910	G. Bernard Brown	G. Bernard Brown	4:03 PM	11/16/2011	Unable to quote
	(310) 570-3727		Melissa			Unable to quote
Embroidme	(562) 997-0240		Melissa			Not in the office, please call back at 9:30 am
Embroidme	(562) 997-0240		Melissa			Not in the office, left message
Embroidme	(562) 997-0240		Melissa	4:13 PM	11/23/2011	Not in the office, left message

Bid Recap

Company	Sub-bidder selected
Outreach Completed - No Responses Received.	No

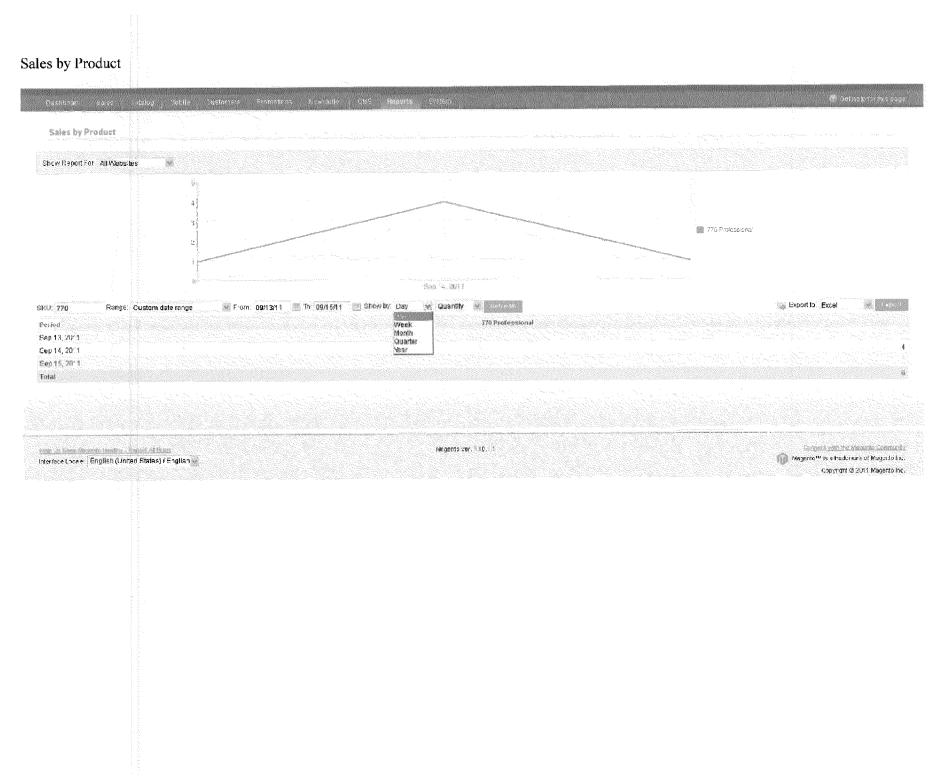
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References

Los Angeles Police Department Contact: Randy Goddard 100 W. First Street Los Angeles, CA 90012 Phone: 213 486-7098

San Francisco Sheriff's Department Contact: Rick Koehler 1 Dr. Carlton B. Goodlett Place Room 456 San Francisco, CA 94102 Phone: 415 554-7214

Riverside Police Department Contact: Officer Andrew Misenheimer 4102 Orange Street Riverside, CA 92501 Phone: 951 826-5344

Orange Police Department Contact: Renee Nicholson 1107 N. Batavia Street Orange, CA 92867 Phone: 714 744-7341

Orange County Transit Authority Contact: J.P. Gonzalez 550 South Main Street Orange, CA 92868 Phone: 714 560-5567



City of Long Beach

Department of Financial Management Division of Procurement 333 W Ocean Blvd. 7th floor, Long Beach, California 90802 562.570.6164

November 18, 2011

NOTICE TO BIDDERS

ADDENDUM NO. 5 BID NO. PA-00412 POLICE DEPARTMENT UNIFORMS, ACCESSORIES & MISC. EQUIPMENT

Please acknowledge receipt of this addendum by signing and returning with your bid.

This addendum includes the items that were added to the Bid Section, according to the revisions noted in Addendum No. 3. Please provide your proposed pricing in the fields shown on the following page and submit with your bid. Please see attached sheet for the items that were added to the Bid Section.

This addendum also includes the proposed alternates and the Long Beach Police Department's response to each line item. **Please see attached spreadsheet for the approved equals list.**

If you have any questions regarding this addendum please submit to Regina.Benavides@longbeach.gov

Prepared By:	Regina Benavides	Date:	November 18, 2011
Acknowledged By:	Buyer Signature	Date:	November 21, 2011
	Larry Dismukes		
	Print Name	-	
	President		
	Title	-	
	Galis, an ARAMARK Company, LLC		
	Company Name	-	

3. Holders			= 110 100 100 m 2 m 100 m
SECTION C - LEATHER GOODS AND ACCESSORIES	Manufacturer & Style No.		Unit Price
	*Section A Sub-Total includes Addendum 5 only. See Add	unpuər	m 2 for additional items
	SUBTOTAL SECTION A:		*07.084
Marlow White #69-121, Jacket, US Army Blue, with ½ inch braid in blue and gold	121-69# sidW wolnsM	\$	59.252
VIII. JACKETS			
T ،Trouser, USA-521, Trouser, US Army Blue, with لا المدام blue and ni birad doni لا المالية #69-521, Trouser	IS2-98# ətirlW woInsM	\$	<i>\$\$</i> .101
STNA9.II			
Flying Cross #UD120W9588Z, women's long sleeve, 100% wool (10 oz./summer weight, Burlington Raeford Mill), LAPD Navy (8818)	Flying Cross #UD120W958Z	\$	\$9.74
Flying Cross #UD20W9586Z, men's long sleeve, 100% wool (10 oz./summer weight, Burlington Raeford Mill), LAPD Navy (8818)	Flying Cross #UD20W9586Z	\$	58.85
I. UNIFORM SHIRTS		\$	\$8.82
SECTION A - BASIC UNIFORM APPAREL	Manufacturer & Style No.		Unit Price

	SUBTOTAL SECTION C:	\$ *26.951
Bianchi #7945, triple magazine pouch, Accumold Elite, basket weave, black	Bianchi #7945	\$ SE.T2
Bianchi #7903, single magazine pouch, Accumold Elite, basket weave, black	Bianchi #7903	\$ 54.21
Bianchi #7409, flashlight holder, Accumold, nylon, black	Bianchi #7409	\$ SI.S
Bianchi #7909, flashlight holder, Accumold Elite, basket weave, black	Bianchi #7909	\$ 52.2
Bianchi #7314S, swivel radio holder, Accumold, nylon, black	Bianchi #7314S	\$ \$\$.12
Bianchi #7314, radio holder, Accumold, nylon, black	Bianchi #7314	\$ \$0.81
Bianchi #7914S, swivel radio holder, Accumold Elite, basket weave, black	Bianchi #79145	\$ 32.55
Bianchi #7404, baton holder, Accumold, nylon, black	Bianchi #7404	\$ 51,2
Bianchi #7904, baton holder, Accumold Elite, basket weave, black	Bianchi #7904	\$ \$1.9
3. Holders		
SECTION C - LEATHER GOODS AND ACCESSORIES	Manufacturer & Style No.	Unit Price

*Section C Sub-Total includes Addendum 5 only. See Addendum 2 for additional items.

UNIFORM PROPOSAL QUARTERMASTER ALTERNATIVES

Vind Breaker (lined)	BIK	Aros Isnibis)	LawPro 548 121 03	Асадету	Approved Equal
Sweater (button-up)	Green	Broadway 502B	PSC, #4018	Асадету	Rejected
Sweater (button-up)	λνε <mark>ν</mark>	Broadway 502B	PSC, #4018	Асадету	Rejected
səvolp TAWa	Blk, Green	SWAT EG 50G-600	Elite Tactical DJ0100	TAWS	Approved Equal (Style # DS0100-B or OD)
Silent Key Carrier		Aker 564	Triple K #329	Academy	Rejected
sam Brown Belt		Tex Shoemaker 201/ Aker B03-BW	Triple K #34HL	Асадету	Rejected
safety Vest		Section A, #DC60 (Unknown brand)	821# motinU betinU	Асадету	Approved Equal
Asuch Pouch		Aker 510D-BW	Triple K #222	Асадету	Rejected
Aag. Pouch		Aker 510-BW4	Triple K 45 GRP57	Асзаету	Rejected
Aag. Pouch		Aker 510-BW3	Triple K 45 GRP64	Асадету	Rejected
Aag. Pouch		Aker 510-BW2	Triple K 45 GRP61	Academy	Rejected
Aace Holder		Tex Shoemaker 92/ Aker A570 & A57	Triple K, #215A	Асадету	Rejected
Aace Carrier w' flap		Tex Shoemaker 92\ Aker A570 & A57	Triple K, #215	Academy	Rejected
(filos) sbs9 sent		Section D, 45110 (Soft knee)	Damascus DNKP	Correia	Rejected
(nee Pads (hard)		Section D, #45106 (Hard knee)	Damascus DKP-B	Correia	Rejected
(ey Strap		Tex Shoemaker 88	Triple K, #92	үтэргэд	Rejected
(ey Strap		Aker A560-BW	Triple K #12	Асадету	Rejected
(ey Box w/ Key Clip		Tex Shoemaker 215 A/ Aker A511	LawPro 569236	Academy	Rejected
(eebers		Tex Shoemaker #86/ Aker A531-BW	Triple K #16	Асадету	Rejected
təmlət		As-A8 JE8 eolice BEL BA-38	United Shield International, PS	TSC650 Academy	Rejected
and Cuff carrier HS		Tex Shoemaker 204	Triple K, Style 166, Hidden Fas	tener Academy	Rejected
land Cuff carrier HS		Tex Shoemaker 204	Triple K, Style 29	Асадету	Rejected
sevolo teltnus		Hatch #FM2000	Damascus DFS2000	list	Rejected
lashlight Carrier		Aker A540/ A540SB	Triple K #205	Асадету	Rejected
(flos) sbs9 wodi		Hatch, NK45	Damascus DNE	Correia	Rejected
lbow Pads (hard)		Hatch, TAK#150 (Hard elbow)	Damascus DEP-B	Correia	Rejected
saton Carrier		Tex Shoemaker 82DM	Triple K #242	Асадету	Rejected
sallistic Vest	Blk Nylon	American Body Armor XT01Level II	Armor Express	TAW2	Rejected
	AVAIL. COLORS	9RIGINAL ITEM #	PROPOSED ALTERNATE	BEVIEWED BY	FINDINGS (approved, not approved, etc)

Page 3 of 3

Proposed Alternates (Final).xls QUARTERMASTER

Created on 11/80/11 or betreat 102/81/11:no betring

City of Long Beach



Department of Financial Management Division of Procurement 333 W Ocean Blvd. 7th floor, Long Beach, California 90802 562.570.6164

November 15, 2011

NOTICE TO BIDDERS

ADDENDUM NO. 4 BID NO. PA-00412 POLICE DEPARTMENT UNIFORMS, ACCESSORIES & MISC. EQUIPMENT

Please acknowledge receipt of this addendum by signing and returning with your bid.

This addendum serves as a notification to all prospective bidders that the **bid due date has been extended to November 29, 2011.** The bids are due to be submitted to the City Clerk's office by 11:00 AM.

If you have any questions regarding this addendum please submit to <u>Regina.Benavides@longbeach.gov</u>

Prepared By:	Regina Benavides	Date:	November 15, 2011
	Buyer		
Acknowledged By:		Date:	November 16, 2011
	Signature		
	Larry Dismukes		
	Print Name		
	President		
	Title		
	Galls, an ARAMARK Company, LLC		
	Company Name		

City of Long Beach



Department of Financial Management Division of Procurement 333 W Ocean Blvd. 7th floor, Long Beach, California 90802 562.570.6164

November 9, 2011

NOTICE TO BIDDERS

ADDENDUM NO. 3 BID NO. PA-00412 POLICE DEPARTMENT UNIFORMS, ACCESSORIES & MISC. EQUIPMENT

Please acknowledge receipt of this addendum by signing and returning with your bid.

This addendum includes the responses to the questions that have been posed by prospective bidders. It is advisable to review the following information while developing your proposal.

- 1. Q: Page 4 Subject to the acceptance of the city for 3 months. What does this mean?
 - A: The pricing proposed in the bid shall stand firm for up to 3 months after submittal until the contract has been awarded.
- 2. Q: Page 5 In case of error in extension of prices unit price will govern. Do we have access to usage reports?
 - A: Usage reports are not available at this time. If these reports are made available prior to the bid close date, they will be posted as an addendum.
- 3. Q: Page 8 Contract period states 12 months. It does not clearly state that there is an option for two 12 month renewals of the contract.
 - A: This contract will include two optional one-year renewals, which will be utilized at the discretion of the City of Long Beach.
- 4. Q: Page 11 How will the potential price increases factor in to the initial contract award (if they will at all)?
 - A: The proposed price increases will be considered in the contract award; however, the focus of the award will be on the prices provided in the Bid Section.

- 5. Q: Page 3 The bid says "notary required for corporate officers if located out of state." Is page 3 of 51 where this action should occur, and it is correct to say that page 1 should be left blank if the organization is California based? If the business is physically located in California, but incorporated in the State of Delaware, is the notary action required?
 - A: Please refer to page 2 of 51 for Bid Instructions concerning signatures.
- 6. Q: Page 12 The City reserves the right to award portions of this bid to one or more contractors. Does this mean that the City is willing to award the same portions of the bid to two or more different bidders? If I was the "prime" vendor for Section "A" on the uniforms but the "secondary" vendor for Section "C" but I had an open PO and they came in for uniforms and needed just a few leather items from Section "C" would they be allowed to purchase or would they be forced to go to the primary?
 - A: As indicated on Page 12 and 21 in the bid document, it is the City's intent to award Sections A through E to a Primary and Secondary vendor. Section F will be evaluated separately. Sections A through E will not be broken up into different contracts.
- 7. Q: Page 13 Are you looking to transition to an On-Line only ordering system?
 - A: Officers will not be placing orders directly into an on-line system. Once internal approvals are received for the purchases, then a designated Police Department employee will enter the order into an online system that will send the order to the store for fulfillment and the officer for notification purposes. This will also allow the order data to be captured for reporting purposes.
- 8. Q: Page 13 Will you be using a store front location for your purchases or to service this account?
 - A: Yes
- 9. Q: Page 13 Customized tracking. Are you looking for monthly usage reports broken down by categories/products/purchase orders?
 - A: We want to be able to create reports to track overall purchases, usage by division, and ideally an "on demand" reporting feature that will allow us to query by division, product number (for grants), by employee (ex: what has Officer Smith ordered this year?). We will work with the vendor to identify the necessary reports once the contract has been awarded.
- 10. Q: Page 14 Reporting: Complete purchase data reports on monthly, quarterly, and yearly basis. All of them or just monthly, quarterly, or yearly?
 - A: See #9 above.

- 11: Q: Page 14 Want to confirm that you do not need samples with our bid. Not for patches or any other product.
 - A: Samples are not required to be submitted with your bid. But, the City reserves the right to request samples after the bid due date.
- 12: Q: Page 15 Trained personnel, when required, for measuring and fitting uniforms at the police academy. Inventory requirement. Approximately how many times a year, month for fittings?
 - A: The Police Department may have from 0-2 Basic Academies per year, and 0-1 Reserve Academies per year. The number of officers varies based on the number of qualified applicants and fiscal constraints.
- 13. Q: Page 15 Qualifications (personnel) and requirements (inventory) to be made by the Chief. My staff is well trained in customer service and fittings but I would like to have an idea of usage tied to the minimum inventory requirement.
 - A: The Police Department will work with the vendor to determine minimum inventory requirements once the contract is awarded. A list of top selling items is not available at this time. It will be posted as an addendum if received prior the bid closing.
- 14: Q: Page 15 Once the contract has been awarded, any item substituted as an approved equal for a specified brand shall require written approval. Does this mean that companies can still submit items as an approved alternate by November 3rd? And if approved will not need to have written approval for the length of the contract? So items currently approved can be substituted once the bid is a awarded? What will this be based on?
 - A: Alternates were due to be submitted to the City of Long Beach by November 3rd. The approved alternates will not need additional approval for the duration of the contract. For additional information, please refer to Page 15, Section "C", and Page 16, Section "D" in the bid document.
- 15. Q: Page 15 Samples of the patches, badges are due by November 3, 2011 or sometime after the bid is awarded?
 - A: The Long Beach Police Department will work with the vendor after the bid has been awarded. Patches were not due by November 3, 2011.
- 16. Q: Page 17 Mark each garment and accessory to assure ready identification. How would you like each garment marked? How do we mark each accessory? Flashlight, holster, knife?
 - A: The requirement to mark each garment and accessory has been removed from the bid.

- 17. Q: Page 17 Uniforms and accessories shall include the measurement, marking, tailoring, alteration, fitting, sewing on of emblems and pressing. So there will not be a separate price for any alterations? Sleeve shorting, side alterations, etc.?
 - A: The price quoted for uniforms and accessories shall include all alterations, sewing on of emblems, pressing, etc. to properly fit the garment/item for the initial purchase. If an officer loses weight or needs additional tailoring after the initial purchase, then the pricing listed in Section E shall apply.
- 18. Q: Page 17 Pressing: We iron sleeves when we put on patches. Is that what you mean by pressing? We also put all clothes on hangers and in bags but we do not do a "military press."
 - A: The navy blue uniforms for sworn personnel require a military press.
- 19. Q: Page 17 Each garment shall have a permanent laundry mark with date of issue. What type of permanent laundry mark? Where is the laundry mark to go? Is the mark to specify the manufacture or individual?
 - A: The requirement for a permanent laundry mark was removed from the bid.
- 20. Q: Page 18 Five working days for delivery of uniforms after receiving the order on "normally stocked" items. What are the normally stocked items? Will we receive a list of the normally stocked items?
 - A: The Police Department will work with the vendor to determine minimum inventory requirements once the contract is awarded. A list of top selling items is not available at this time. It will be posted as an addendum if received prior the bid closing.
- 21. Q: Page 18 Failure to maintain adequate stock will be deemed a breach and may result in termination of contract. It is difficult without usage reports to forecast how much product we will need. Will we have usage or minimum stocking level information prior to the bid process?
 - A: See #20 above.
- 22. Q: Page 19 Is there anything on the bid that the department will not consider looking at an alternate item for?
 - A: No

- 23. Q: Page 21 \$100 dollars per day per unit of back ordered items. Has this ever been in the contract before? Has if ever been utilized before? If it has can you provide an example? If it has not been used, why not? Does this mean that if you have three shirts on back order you are fined \$100 per day per item? So three shirts on back order would be \$300 a day?
 - A: This is standard contract language used by the City. It would only be invoked if the vendor's inability to provide uniforms and equipment would "seriously affect the public welfare and the operation of the City." For example, if the vendor could provide no uniforms and equipment at all for an extended period of time and it impacted the Police Department's ability to field patrol units. This section is more commonly applied to large scale projects (technology, construction, etc.)
- 24. Q: Contract Agreement "Cost Section"

SECTION A – BASIC UNIFORM APPAREL

- Page 24 All of the Heavy Weight Flying Cross 17oz shirts are special order from the manufacture. Are these to be used as everyday patrol uniforms or just as Class A uniforms?
 - A: The Command Staff will likely use this for everyday. It will be an option for Patrol Officers to wear everyday, and will also be used for Class A uniforms.
- Page 24 The 10 oz long sleeve 100% wool shirt (men's & women's) were omitted and should be added to the Cost Section
 - A. Add:
 - Flying Cross UD20W9586Z, men's long sleeve, 100% wool (10 oz./summer weight, Burlington Raeford Mill, LAPD Navy (8818)
 - Flying Cross UD120W9586Z, women's long sleeve, 100% wool (10 oz./summer weight, Burlington Raeford Mill, LAPD Navy (8818)
- The 100% Poly Flying Cross "LAPD" style shirts are also special order. Are these just for officers who are allergic to wool? Will officers on patrol be allowed to wear these uniforms?
 - A: We only have a small number of officers who have a wool allergy or the inability to wear wool. The wool uniform will be the standard issue. We would just need the standard lead time for ordering the polyester so that we can provide it to those officers who need polyester.
- Page 25-26 Are all of the "Special Services Officers" uniforms only for the single division? There are 100% Poly, Poly Rayon and Poly Cotton uniforms listed. They all dye differently and "special services" officers standing next to other will look very different. This can cause a large problem for us trying to complete the bid with out

usage reports. The incumbent supplier has an advantage if they know that all of the officers always get the 100% poly uniforms.

- A: We have several different divisions who wear the green and tan uniform. Jail Detention Officers, Business Desk Personnel, Marine Patrol, Court Baliffs, etc. so the shirts listed on the bid are those that were confirmed by the various work units.
- Page 30 The Flying Cross #32289 trousers with stripe should be eliminated from this section. The Honor Guard currently uses the following trousers instead:
 - A. Marlow White #69-521, Trouser, US Army Blue, with ½" braid in blue and gold
- Page 32 There are not any 100% wool Elbeco pants available. I believe the department is looking for the 45/55% Poly Wool pants. Can you clarify and make sure the correct stock numbers are used on both the Elbeco and Flying cross trousers.
 - A: We have removed the 100% wool pants in green from the bid
- Page 32 Some of the stock numbers for the Mocean product is incorrect according to Mocean.
 - A: The corrected information is listed below:
 - Mocean #2050B, Bike pant w/belt loops, black, (There is no "B" in the stock number)
 - Mocean #1050B, Police bike shorts, black, (product # changed to #1051)
- Most of the products on this list do not have a place for oversizes. Some of the products do but most do not. Will you be adding them?
 - A: Any oversizes needed that are not listed as a separate line item will be purchased under the miscellaneous items option on our contract.
- Page 34 The frontline jacket product numbers are incorrect.
 - A: The correct style # for the Frontline Motor Jacket is F1000BK
- Page 34 The jacket for the Honor Guard was omitted and should be added to the Cost Section:
 - A. Marlow White #69-121, Jacket, US Army Blue, with ½" braid in blue and gold
- Page 34 The Liberty Unlined Windbreaker has been discontinued.
 - A. The Cardinal Unlined Windbreaker is the replacement and is already listed on the specifications.

- Page 34 The safety vest from Frontline/TactSquad listed is a special order and has a minimum of 500 pieces. Will you accept alternates for this product? We did not find this out until recently? The product number is also incorrect.
 - A: We will consider alternates for this product that can be ordered in lesser quantities, as long as the specifications and appearance are the same as the original item. I have confirmed that the product *#* for the original item is TactSquad DC60.
- Page 35 TactSquad gloves also have the incorrect part number.
 - A: The correct style *#* for the TactSquad gloves is TG100, in black

SECTION B – SHOES & BOOTS

- Page 37 Thorogood #834-6047 is not available. There is a women's #534-6047, but that is already included in the bid. Which style do you need?
 - A: We have eliminated Thorogood #834-6047 from the bid.
- Page 37 Thorogood #834-6100 is not available.
 - A: We have eliminated Thorogood #834-6100 from the bid.
- Page 37 Rocky brand does not have a style #5248? The Portland 8" is already on the bid as #2080. #5248 refers to Magnum Stealth Force 6" (not 8"). Which style do you need?
 - A: We will go with the Rock Portland #2080, 8" boot that is already listed on the bid specifications. The Magnum Stealth Force should not be listed.

SECTION C - LEATHER GOODS & ACCESSORIES

- Page 38 40 The Aker product numbers are incorrect.
 - A: The correct style #s for Aker do not have the letter "A" in front of them.

<u>Belts</u>

- Page 38 The Bianchi #1992 nylon belt is the wrong part number.
 - A: The correct style # is the Bianchi #7205, nylon under belt, black.

<u>Holders</u>

- Page 38 The style # for the Bianchi baton holder is incorrect.
 - A. The correct style #s for the Bianchi baton holders are:

Page 7 of 9

- Bianchi #7904, baton holder, Accumold Elite, basketweave, black
- Bianchi #7404, baton holder, Accumold, nylon, black
- Page 39 The style # for the nylon Bianchi silent key holder is incorrect.
 - A. The correct style #s for the nylon Bianchi silent key holder is:
 - Bianchi #7916, silent key holder, Accumold, nylon, black
- Page 39 The Bianchi #200S (18755) Radio Holder is discontinued. Also this item is described as Accumold Elite, but it is not Accumold Elite. Which style do you need?
 - A: The correct style #s for the Bianchi Radio Holders are:
 - Bianchi #7914S, Accumold Elite, swivel radio holder, simulated leather, basketweave, black
 - Bianchi #7314, Accumold, radio holder, nylon, black
 - Bianchi #7314S, Accumold, swivel radio holder, nylon, black
- Page 39 Triple K is the manufacturer of the 281 radio holder, not Aker.
 - A: The correct style # is the Triple K #281, radio holder, leather, basket weave, black
- Page 39 The style # for the nylon Bianchi mace holder is incorrect.
 - A. The correct style #s for the nylon Bianchi mace holder is:
 - Bianchi #7307, mace holder, Accumold, nylon, black
- Page 39 The Bianchi Accumold and Accumold Elite flashlight holders were omitted.
 - A: The correct style *#* for the Bianchi flashlight holders are:
 - Bianchi #7909, Accumold Elite, flashlight holder, black basket weave
 - Bianchi #7409, Accumold, flashlight holder, nylon, black

<u>Keepers</u>

- Page 39 The style # for the Bianchi nylon belt keepers is incorrect.
 - A: The correct style # for the nylon Bianchi belt keepers is:
 Bianchi #7406, Accumold, belt keepers, nylon, black

Magazine Pouches

- Page 40 The Bianchi Accumold and Accumold Elite magazine pouches should be separate line items.
 - A: The style # for the Bianchi magazine pouches are:

- Bianchi #7903, Accumold Elite, single magazine pouch, black basket weave
- Bianchi #7902, Accumold Elite, double magazine pouch, black basket weave,
- Bianchi #7945, Accumold Elite, triple magazine pouch, black basketweave
- Bianchi # 7303, Accumold, single magazine pouch, nylon, black
- Bianchi #7302, Accumold, double magazine pouch, nylon, black
- Bianchi #7345, Accumold, triple magazine pouch, nylon, black

SECTION D – MISCELLANEOUS EQUIPMENT

- Page42 The style #s for the Hatch products for SWAT are incorrect.
 - A: The correct style # for the Hatch products for SWAT are:
 - Hatch SOG-L50/L75, Operator Shorty, tactical gloves, black or green
 - Hatch SOG-600/650, Operator, tactical gloves, black or green
 - Hatch KP250/KP250G/, Centurion Hard knee pads, black or green
 - Hatch NK45, Centurion Neoprene/Soft knee pads, black or green
 - Hatch XTAK150, Hard elbow pads, black or green

f you have any questions regarding this addendum please submit to)
Regina.Benavides@longbeach.gov	

Prepared By:	Regina Benavideş	Date:	November 9, 2011
	Buyer		
Acknowledged By:	Circulture	Date: _	November 14, 2011
	Signature		
	Larry Dismukes		
	Print Name		
	President		
	Title		
	Galls, an ARAMARK Company, LLC		
	Company Name		

City of Long Beach



Department of Financial Management Division of Procurement 333 W Ocean Blvd. 7th floor, Long Beach, California 90802 562.570.6164

October 25, 2011

NOTICE TO BIDDERS

ADDENDUM NO. 2 BID NO. PA-00412 POLICE DEPARTMENT UNIFORMS, ACCESSORIES & MISC. EQUIPMENT

Please acknowledge receipt of this addendum by signing and returning with your bid.

This addendum includes the updated bid document. Please submit the attached version of the bid in lieu of the original version posted on Bids Online.

Please take note of the extended due dates and the revisions made to the bid section, as indicated below.

Revised Bid Timeline

Questions to be submitted by email by: Proposed alternates & supporting data due by: Answers to questions submitted to be posted online by: List of approved equals posted online by: **REVISED BID DUE DATE:** 11/01/11 @ 3:00 p.m. 11/01/11 @ 11:00 a.m. 11/08/11 @ 3:00 p.m. 11/08/11 @ 3:00 p.m. **11/17/11 @ 11:00 a.m.**

Revisions Made to Bid Section

Section A

0000101171	
Page 24-25	Requirement for snaps under collar points & at top of collar on L/S navy
	blue wool shirts has been removed
Page 24	Corrected item # on Flying Cross men's short sleeve shirt (10oz)
0	Corrected item # on Flying Cross women's short sleeve shirt (10oz)
Page 32	Eliminated 100% wool pant line items (Green not available in 100% wool
U	Amended item # on Elbeco men's 65/35 pant, green
	Amended item # on Elbeco women's 65/35 pant, green
Page 32	Eliminated incorrect style # on Flying Cross 100% wool motor breeches
0	Amended item # on Flying Cross 100% Polyester breeches
Page 34	Added Blauer Duty Jacket (black)
U	Added Flying Cross Duty Jacket (Forest Green)

<u>Section C</u>	Added additional holster style #s to allow for light option on all models
Page 39-40	Added four (4) tactical holsters
<u>Section E</u>	Added line item for adding snaps under collar
Page 44	Added line item for adding snap on placket between 1st & 2nd button

If you have any questions regarding this addendum please submit to <u>Regina.Benavides@longbeach.gov</u>

Prepared By:	Regina Benavides	Date:	October 25, 2011
	Buyer		
Acknowledged By:	Signature	Date: _	November 14, 2011
	Larry Dismukes		
	Print Name		
	President		
	Title		
	Galls, an ARAMARK Company, LLC		
	Company Name		



City of Long Beach

Department of Financial Management Division of Procurement 333 W Ocean Blvd. 7th floor, Long Beach, California 90802 562.570.6164

October 21, 2011

NOTICE TO BIDDERS

ADDENDUM NO. 1 BID NO. PA-00412 POLICE DEPARTMENT UNIFORMS, ACCESSORIES & MISC. EQUIPMENT

Please acknowledge receipt of this addendum by signing and returning with your bid.

This addendum includes the sign in sheet that was collected at the mandatory pre-bid conference, which took place on Wednesday, 10/12/11, at 9:00 a.m.

If you have any questions regarding this addendum please submit to <u>Regina.Benavides@longbeach.gov</u>

Prepared By:	Regina Benavides	Date:	October 21, 2011
	Buyer		
Acknowledged By:	242	Date:	November 14, 2011
	Signature		
	Larry Dismukes		
	Print Name		
	President		
	Title		
	Galls, an ARAMARK Company, LLC		
	Company Name		

PA-00412 POLICE DEPARTMENT UNIFORMS, ACCESSORIES & MISCELLANEOUS EQUIPMENT WEDNESDAY OCTOBER 12, 2011 9:00 A.M. MANDATORY PRE-BID CONFERENCE

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	195 Scott Swamp Road Suite 201				PHONE (A/C, No, Ext): E-MAIL ADDRESS:			FAX (A/C, No	<u>p):</u>	
	Farmington CT 06032 860-678-4000				ADDRESS:	INS	URER(S) AFFOR			NAIC #
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A Product of the Safariland[™] Company **TECHNICAL SPECIFICATION Xtreme[®] Series – XT01 – Type II**

Test Standard	NIJ Standard: 0101.06
Model	NIJ: BA-2000S-XT01
Threat Type	II
Configuration	Unstructured
Armor Material	Twaron [®] Microlaminate, Gold Shield [®] GN-2117, Advanced Stitching using Vertical Side Tacks
Armor Panel Covering	2 ply, 70 Denier Textured Nylon Blockade with TPU lamination system
Areal Density [lbs/ft ²]	0.93
Thinness [inches] ASTM Standard D1777-97	0.208
New V50 – .9 mm FMJ RN 124gr [ft/s]	1715
Conditioned V50 – .9 mm FMJ RN 124gr [ft/s]	1660
New V50 – .357 Mag JSP 158gr [ft/s]	1613
Conditioned V50 – .357 Mag JSP 158gr [ft/s]	1661
Backface Average – .9 mm	29.83
Backface Average – .357 Mag	33.63
Additional Special Threats have been Tested at UST Standard IAW Sec 7.8.2 unless otherwise specified.	L in accordance with Modified/Abbreviated NIJ 0101.06
 Federal 9 mm 124Gr. +P HST (P9HST1) - Te 	ested Velocity @ 1250 fps ± 30 No Perforations
	ed Velocity @ 1375 fps \pm 30 No Perforations & IAW Tested Velocity 1375 fps \pm 30 No Perforations
Winchester 9mm 127Gr. SXT +P+(RA9TA) -	Tested Velocity @ 1250 ± 30 No Perforations
• Winchester 40 Cal. 165Gr. SXT (RA40TA) -	Tested Velocity @ 1140 ± 30 No Perforations
5x7x28mm SS 197 (Blue Tip) Tested Velocity	y @ 1728fps No Perforations

30 March 2011

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ABA Technical Specifications_XT01_Type II_Rev.3

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SAFARILAND



1. Scope:

The scope of this product specification provides information relating to the American Body Armor[®] Xtreme[®] Series XT01 (Type II) Model (NIJ Model # BA-2000S-XT01) that is compliant with National Institute of Justice (NIJ) Standard 0101.06 Ballistic Resistance of Personal Body Armor for Type II classification and manufactured by Safariland[™].

2. Research & Development and Manufacturing:

The manufacturer (Safariland[™]) of the armor model, as listed on the NIJ's Compliant Product List (CPL), solely performs the research, development, and manufacturing capabilities described below. Other manufacturers of armor models listed on the CPL that have outsourced similar capabilities shall be deemed as inferior.

Capabilities	Internal	Out Sourced
Soft Armor Research and Development	X	
Hard Armor Research and Development	Х	
Soft and Hard Armor Ballistic, Stab and Fragmentation Testing	Х	
Soft and Hard Armor Non-Destructive and Destructive Testing	Х	
Carrier Research and Development	X	
Domestic Soft and Hard Armor Manufacturing Facilities	Х	
Domestic and International Carrier Manufacturing Facilities	Х	

3. Armor Design (Construction):

The American Body Armor[®] Xtreme[®] Series XT01 (Type II) model has the following armor design characteristics:

Feature(s)	Definition(s)	Benefit(s)
Hybrid Technology	The use of multiple types of ballistic, stab, fragmentation and blunt trauma resistant materials in armor design.	Provides the perfect balance between blunt trauma reduction and ballistic resistance against a wide array of bullets.
Woven Aramid-Teijin Twaron [®]	The use of Teijin Twaron [®] products made from Aramid fibers in various size yarns (dtex) that are woven together to form a fabric of material.	Provides a high level of ballistic resistance with high impact properties, excellent thermal stability and chemical resistance. The addition of coatings and micro-laminates enhance the chemical and mechanical properties for durability in various conditions.
Gold Shield [®] GN-2117 Unidirectional Aramid Fiber	Honeywell's latest addition to the Gold family of soft armor products. Gold Shield [®] GN-2117 combines Honeywell's patented Shield technology with aramid fiber. Gold Shield [®] GN-2117 is a ballistic product consisting of two plies of unidirectional aramid fiber, cross-plied at 0'/90'.	Gold Shield [®] GN-2117 provides strong protection against the NIJ .06 threats and alternate threats. It has excellent fragmentation protection as well as substantial reduction of blunt trauma in a ballistic event. Gold Shield [®] GN-2117 was designed for increased flexibility and comfort.
Advanced Stitching (Vertical Side Tacks)	The use of side tacks or vertical stitch lines sewn on both sides of the armor panel.	The advanced stitch design increases the ballistic performance of the armor panel by creating less yaw (tumbling or turning of the bullet). This provides an expanded reinforced area along the side of the armor panel for increased performance during edge shots.
Grip Loc [™] Integrated Suspension System	The use of adhesive tabs sewn to the armor panel that adheres to the interior of the cover material. In addition, Velcro [®] Hook Tabs are adhered to the exterior of the cover material for added support.	This provides an integrated suspension system that transfers the weight of the armor panel through the cover material and carrier to the shoulder straps. The suspension system prevents the armor panel from bunching at/on the bottom of the carrier and forming horizontal set wrinkles, therefore, increasing the life cycle of the ballistics and adding additional protection in a ballistic event.

7 July 2011

EXPORT CONTROLLED DATA

ABA Bid Specifications_XT01_Type II_Rev.3

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3. Armor Design (Construction) - continued

Feature(s)	Definition(s)	Benefit(s)
Water resistant Cover with Heat Sealed Edges	The use of a Brookwood 70 Denier nylon blockade with TPU lamination system that has a hydrostatic resistance (ASTM-D 751) minimum of 120 pounds per square inch (PSI) to burst and breakaway adhesion (ASTM-D 5035) minimum of 25 pounds per inch (Ibs/in). Armor panel has edges heat- sealed through a son bond process with a minimum of a .25" wide seal.	Provides a durable protective cover around the armor panels that resists environmental contaminate(s).

4. Armor Design (Ballistic Performance):

The American Body Armor[®] Xtreme[®] Series XT01 (Type II) has the following performance characteristics as documented through a combination of NIJ Body Armor Compliance Testing Summary Reports, Independent NIJ Laboratory Testing Reports, and internal Safariland Ballistic Laboratory Testing:

Feature(s)	Data
Areal Density (lbs per square foot)	0.93 (lbs ft ²)
Thinness (inches)	0.208 (in)
.9 mm Estimated V-50 (New) (feet per second)	1715 (fps)
.9 mm Estimated Velocity with 95 % Probability of Stop V-05 (New) (feet per second)	1545 (fps)
.9 mm Probability of Perforation at P-BFS (New) (percentage)	0.01 (%)
.9 mm Average Backface Signature (New) (millimeters)	29.83 (mm)
.357 Mag Estimated V50 (NEW) (feet per second)	1613 (fps)
.357 Mag Estimated Velocity of 95% Probability of Stop V-05 (NEW) (feet per second)	1523 (fps)
.357 Mag Probability of Perforation at P-BFS (NEW) (percentage)	0.2 (%)
.357 Mag Average Backface Signature (NEW) (millimeters)	33.63 (mm)
.9 mm Estimated V-50 (conditioned) (feet per second)	1660 (fps)
.357 Mag Estimated V-50 (conditioned) (feet per second)	1661 (fps)
Independent NIJ Laboratory Special Threat Testing –	Federal 9 mm 124Gr. +P HST (P9HST1), Speer
6 Shot Perforation – Backface Signature (P-BFS)	357 Sig 125Gr. GDHP (23918), Winchester 9mm 127Gr. SXT +P+(RA9TA), Winchester 40 Cal.
	165Gr. SXT (RA40TA), FN 5x7x28mm SS197

5. Availability:

The American Body Armor® Xtreme® Series XT01 (Type II) model is available in accordance with the NIJ Compliance Product List (CPL) as follows:

Classification(s)	Current Status
NIJ Template Size Availability	NIJ C-1 through NIJ C-5
Gender Neutral Armor Model Design Availability	Yes
Gender Specific Shape and Grade for Male(s) Availability	Yes
Gender Specific Shape and Grade for Female(s) Availability	Yes

6. Support Programs:

Classification(s)	Current Status
Warranty	5 Years
Quality Assurance Program(s)	ISO 9001 / Vest Check Program
Safety Assurance Program(s)	OHSAS 18001
Environmental Assurance Program(s)	ISO 14001
Liability Insurance	Information Available Upon Request

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U.S. Department of Justice

Office of Justice Programs

National Institute of Justice

Washington, D.C. 20530

May 17, 2010

Scott O'Brien President Safariland, LLC 3120 East Mission Blvd Ontario, CA 91761

> Notice of Compliance with NIJ Standard-0101.06 Body Armor Model Designation: BA-2000S-XT01 NIJ Compliance Status Expires: May 17, 2015

Dear Mr. O'Brien:

We have completed our evaluation of the body armor model identified above that was submitted to the National Institute of Justice's (NIJ's) Voluntary Body Armor Compliance Testing Program. We are pleased to inform you that the above body armor model satisfies the requirements of NIJ Standard–0101.06 and the Compliance Testing Program.

We also received your completed declaration concerning the model noted above and your agreement to participate in the conformity assessment follow-up process.

The body armor model details are listed on the NIJ Compliant Products List available at www.justnet.org/CTP.

You are now authorized to place the NIJ Statement of Compliance on the labels of this body armor model and all subsequent production units. The Statement of Compliance shall read:

"This model of armor has been determined to comply with NIJ Standard–0101.06 by the NIJ Compliance Testing Program and is listed on the NIJ Compliant Products List."

All compliance requirements, as identified by the *NIJ Body Armor Compliance Testing Program Administrative Manual* and the *Ballistic Body Armor Applicant Package*, must be maintained as long as the NIJ Statement of Compliance is displayed on this armor model's labels. If, at any time, the compliance status of this armor model is changed, the NIJ Statement of Compliance shall cease to be used as of the date of the status change.

Sincerely,

John & Sho

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NATIONAL INSTITUTE OF JUSTICE COMPLIANCE TEST REPORT

Perforation and BFS Summary Data

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Amı	munition: Sample	.357 M	Mag	15 Size:		T Refere	hreat 2 ince Ve Shot-to-	- New locity:	Armor 1430	± 30 ft/s inches 6		N Size:				-
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Shot	Sample Avg. Vel.	5 Front Pa Perf	anel BFS	Size:	C-5 Avg. Vel.	T Refere S Back Pa Pert	hreat 2 ince Ve Shot-to- anel BFS	- New locity: Edge:	Armor 1430 3 Sample Avg. Vel.	± 30 ft/s Inches 6 Front Pa Perf	anel BFS	Size:	C-5 Avg, Vel.	Back P Perf	anel BFS	
Shot Number	Sample Avg. Vel. (ft/sec)	5 Front Pa Perf (Y=1/N=0)	anel BFS (mm)		C-5 Avg. Vel. (fl/sec)	T Refere S Back Pa Pert (Y=1/N=0)	hreat 2 ince Ve Shot-to- anel BFS (mm)	- New locity:	Armor 1430 3 Sample Avg. Vel. (ft/sec)	± 30 ft/s inches 6 Front Pa Perf (Y=1/N=0)	anel BFS (mm)	•	C-5 Avg, Vel, (Il/sec)	Back P Peri (Y=1/N=0)	anel BFS (mm)	Nate
Shot Number 1	Sample Avg. Vel. (fUsec) 1431.1	5 Front Pa Perr (Y=1/N=0) 0	anel BFS (mm) 33.0	Size:	C-5 Avg. Val. (fUsec) 1425.1	T Refere S Back Pa Pert (Y=1/N=0) 0	hreat 2 ince Ve Shot-to- anel BFS (mm) 36.0	- New locity: Edge:	Armor 1430 3 Sample Avg. Vel. (ft/sec) 1423.3	± 30 ft/s inches 6 Front Pa Perf (Y=1/N=0) 0	anel BFS (mm) 33.0	Size:	C-5 Avg, Vel, ((l/sec) 1445.9	Back P Pert (Y=1/N=0) 0	anel BFS (mm) 32.0	
Shot Number 1 2	Sample Avg, Vel. (ft/sec) 1431.1 1439.7	5 Front Pa Perf (Y=1/N=0) 0 0	anel BFS (mm) 33.0 39.0	Size:	C-5 Avg. Vel. (ft/sec) 1425.1 1426.8	T. Refore S Back Pa Pert (Y=1/N=0) 0 0	hreat 2 ince Ve Shot-to- anel BFS (mm) 36.0 36.0	- New locity: Edge:	Armor 1430 3 Sample Avg. Vel. (ft/sec) 1423.3 1414.8	± 30 ft/s inches 6 Front Pa Part (Y=1/N=0) 0 0	anel BFS (mm)	Size:	C-5 Avg, Vel, (Il/sec)	Back P Peri (Y=1/N=0)	anel BFS (mm)	
Shot <u>Number</u> 1 2 3	Sample Avg. Vel. (ft/sec) 1431.1 1439.7 1431.7	5 Front Pa Perf (Y=1/N=0) 0 0 0	anel BFS (mm) 33.0	Size:	C-5 Avg. Val. (fUsec) 1425.1	T Refere S Back Pa Pert (Y=1/N=0) 0	hreat 2 ince Ve Shot-to- anel BFS (mm) 36.0	- New locity: Edge:	Armor 1430 3 Sample Avg. Vel. (ft/sec) 1423.3	± 30 ft/s inches 6 Front Part (Y=1/N=0) 0 0 0	anel BFS (mm) 33.0 34.0	Size:	C-5 Avg. Vel. (II/sec) 1445.9 1452.5	Back P Pert (Y=1/N=0) 0 0	anel BFS (mm) 32.0 31.0	
Shot Number 1 2	Sample Avg, Vel. (ft/sec) 1431.1 1439.7	5 Front Pa Perf (Y=1/N=0) 0 0	anel BFS (mm) 33.0 39.0	Size:	C-5 Avg. Vel. (f(/sec) 1425.1 1426.8 1423.2	T. Refere Sack Pa Part (Y=1/N=0) 0 0 0	hreat 2 ince Ve Shot-to- anel BFS (mm) 36.0 36.0	- New locity: Edge:	Armor <u>1430</u> <u>3</u> Sample Avg. Vel. (ft/sec) 1423.3 1414.8 1402.3 1425.5 1427.2	± 30 ft/s inches 6 Front Pa Part (Y=1/N=0) 0 0 0 0 0	anel BFS (mm) 33.0 34.0	Size:	C-5 Avg. Vel. (II/sec) 1445.9 1452.5 1452.6 1450.6 1427.8 1463.4	Back Part Part (Y=1/N=0) 0 0 0 0 0 0	anel BFS (mm) 32.0 31.0	
Shot <u>Number</u> 1 2 3 4	Sample Avg. Vel. (ft/sec) 1431.1 1439.7 1431.7 1435.1	5 Front Pa Pert (Y=1/N=0) 0 0 0 0	anel BFS (mm) 33.0 39.0	Size:	C-5 Avg. Vel. (fl/sec) 1425.1 1426.8 1423.2 1411.4	T. Refere Sack Part (Y=1/N=0) 0 0 0 0	hreat 2 ince Ve Shot-to- anel BFS (mm) 36.0 36.0	- New locity: Edge:	Armor 1430 3 Sample Avg. Vel. (fl/sec) 1423.3 1414.8 1402.3 1425.5	± 30 ft/s inches 6 Front Pa Part (Y=1/N=0) 0 0 0 0 0	anel BFS (mm) 33.0 34.0	Size:	C-5 Avg. Vel. (II/sec) 1445.9 1452.5 1450.6 1427.8	Back Part Part (Y=1/N=0) 0 0 0 0 0	anel BFS (mm) 32.0 31.0	
Shot Numbor 1 2 3 4 5 6 7	Sample Avg. Vol. (f/Jecc) 1431.1 1439.7 1431.7 1435.1 1420.5	5 Front Pa Perf (Y=1/N=0) 0 0 0 0 0 0	anel BFS (mm) 33.0 39.0	Size:	C-5 Avg. Vel. (fl/sec) 1425.1 1426.8 1423.2 1411.4 1432.6	T Refore S Back Pa Part (Y=1/N=0) 0 0 0 0 0 0	hreat 2 ince Ve Shot-to- anel BFS (mm) 36.0 36.0	- New locity: Edge:	Armor <u>1430</u> <u>3</u> Sample Avg. Vel. (ft/sec) 1423.3 1414.8 1402.3 1425.5 1427.2	± 30 ft/s inches 6 Front Pa Part (Y=1/N=0) 0 0 0 0 0	anel BFS (mm) 33.0 34.0	Size:	C-5 Avg. Vel. (II/sec) 1445.9 1452.5 1452.6 1450.6 1427.8 1463.4	Back Part Part (Y=1/N=0) 0 0 0 0 0 0	anel BFS (mm) 32.0 31.0	
Shot Numbor 1 2 3 4 5 6 7 8	Sample Avg. Vel. ((Usec) 1431.1 1439.7 1435.1 1435.1 1420.5 1435.1	5 Front Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0	anel BFS (mm) 33.0 39.0 36.0	Size: Note	C-5 Avg. Vel. (f(//sec) 1425.1 1426.8 1423.2 1411.4 1432.6 1424.3	T Refore S Back Pa Part (Y=1/N=0) 0 0 0 0 0 0	hreat 2 ince Ve Shot-to- anel BFS (mm) 36.0 36.0	- New locity: Edge: Note	Armor 1430 3 Sample Avg. Vet. (tt/sec) 1423.3 1414.8 1402.3 1425.5 1427.2 1437.8	± 30 ft/s inches 6 Front Part (Y=1/N=0) 0 0 0 0 0 0 0 0	anel BFS (mm) 33.0 34.0 27.0	Size:	C-5 Avg. Vel. (Il/sec) 1445.9 1452.5 1450.6 1427.8 1463.4 1444.8	Back P Perf (Y=1/N=0) 0 0 0 0 0 0 0 0	anel BFS (mm) 32.0 31.0 32.0	
Shot Numbor 1 2 3 4 5 6 7 8	Sample Avg. Vel. ((Usec) 1431.1 1439.7 1435.1 1435.1 1420.5 1435.1	5 Front Par Perr (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 33.0 39.0 36.0	Size: Note	C-5 Avg. Vel. (fUsec) 1425.1 1426.8 1423.2 1411.4 1432.6 1424.3 (Pass)	T Refore S Back Pa Part (Y=1/N=0) 0 0 0 0 0 0	hreat 2 ince Ve Shot-to- anel BFS (mm) 36.0 36.0	- New locity: Edge: Note	Armor <u>1430</u> <u>3</u> Sample Avg. Vel. (ft/sec) 1423.3 1414.8 1402.3 1425.5 1427.2	± 30 ft/s inches 6 Front Part (Y=11N=0) 0 0 0 0 0 0 0 0 0	anel BFS (mm) 33.0 34.0 27.0	Size: Noto	C-5 Avg. Vel. ([Usec]) 1445.9 1452.5 1450.6 1427.8 1463.4 1463.4 1444.8 Average:	Back P Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 33.7	anel BFS (mm) 32.0 31.0 32.0	
Shot <u>Numbor</u> 1 2 3 4 5 6 7 8	Sample Avg. Vel. ((Usec) 1431.1 1439.7 1435.1 1435.1 1420.5 1435.1	5 Front Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0	anel BFS (mm) 33.0 39.0 36.0	Size: Note	C-5 Avg. Vel. (f(//sec) 1425.1 1426.8 1423.2 1411.4 1432.6 1424.3	T. Refere S Back Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0	hreat 2 nice Ve Shot-to- anel BFS (mm) 36.0 36.0 35.0	- New locity: Edge: Note	Armor 1430 3 Sample Avg. Vel. (11/sec) 1423.3 1414.8 1402.3 1425.5 1427.2 1437.8 Statistics	± 30 ft/s inches 6 Front Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 33.0 34.0 27.0	Size: Noto	C-5 Avg. Vel. (Il/sec) 1445.9 1452.5 1450.6 1427.8 1463.4 1444.8	Back P Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 33.7	anel BFS (mm) 32.0 31.0 32.0	
Shot Numbor 1 2 3 4 5 6 7 8	Sample Avg. Vel. ((Usec) 1431.1 1439.7 1435.1 1435.1 1420.5 1435.1	5 Front Par Perr (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 33.0 39.0 36.0	Size: Note	C-5 Avg. Vel. (fUsec) 1425.1 1426.8 1423.2 1411.4 1432.6 1424.3 (Pass)	T. Refere S Back Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0	hreat 2 nice Ve Shot-to- anel BFS (mm) 36.0 36.0 35.0	- New locity: Edge: Note	Armor 1430 3 Sample Avg. Vet. (tt/sec) 1423.3 1414.8 1402.3 1425.5 1427.2 1437.8	± 30 ft/s inches 6 Front Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 33.0 34.0 27.0	Size: Noto	C-5 Avg. Vel. ([Usec]) 1445.9 1452.5 1450.6 1427.8 1463.4 1463.4 1444.8 Average:	Back P Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 33.7	anel BFS (mm) 32.0 31.0 32.0	
Shot Number 1 2 3 4 5 6 7	Sample Avg. Vel. (ft/sec) 1431.1 1439.7 1435.1 1420.5 1435.1	5 Front Par Perr (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 33.0 39.0 36.0	Size: Note 0 39.0	C-5 Avg. Vel. (f(5sc) 1425.1 1426.8 1423.2 1411.4 1432.6 1424.3 (Pass) mm	T. Refere S Back Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0	hreat 2 nice Ve Shot-to- anel BFS (mm) 36.0 36.0 35.0	- New locity: Edge: Note	Armor 1430 3 Sample Avg. Vel. (11/sec) 1423.3 1414.8 1402.3 1425.5 1427.2 1437.8 Statistics	± 30 ft/s inches 6 Front Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 33.0 34.0 27.0 12 1.568	Size: Noto	C-5 Avg, Vel. (I/JSec) 1445.9 1452.5 1450.6 1427.8 1463.4 1444.8 Average: St. Dev.:	Back P. Part (Y=1/N=0) 0 0 0 0 0 0 0 0 33.7 3.08	anel BFS (mm) 32.0 31.0 32.0	
Shot Numbor 1 2 3 4 5 6 7 8	Sample Avg. Vel. ((Usec) 1431.1 1439.7 1435.1 1435.1 1420.5 1435.1	5 Front Pa Perr (Y≃1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 7	anel BFS (mm) 33.0 39.0 36.0 36.0	Size: Note	C-5 Avg. Vel. (f(5sc) 1425.1 1426.8 1423.2 1411.4 1432.6 1424.3 (Pass) mm	T. Refere S Back Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0	hreat 2 nce Ve Shot-to- anel BFS (mm) 36.0 36.0 36.0 35.0	- New locity: Edge: Note	Armor 1430 3 Sample Avg. Vet. (tt/sec) 1423.3 1425.5 1427.2 1427.2 1437.8 Statistics then 44	± 30 ft/s inches 6 Front Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 33.0 34.0 27.0 12 1.568	Size: Note	C-5 Avg, Vel. (I/JSec) 1445.9 1452.5 1450.6 1427.8 1463.4 1444.8 Average: St. Dev.:	Back P. Part (Y=1/N=0) 0 0 0 0 0 0 0 333.7 3.06 Back P	anel BFS (mm) 32.0 31.0 32.0 32.0	
Shot Numbor 1 2 3 4 5 6 7 8	Sample Avg. Vel. (ft/sec) 1431.1 1439.7 1435.1 1420.5 1435.1	5 Front Pa Perr (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 33.0 39.0 36.0 36.0	Size: Note 0 39.0	C-5 Avg. Vel. (f(5sc) 1425.1 1426.8 1423.2 1411.4 1432.6 1424.3 (Pass) mm	Tr Refere 9 Pert (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	hreat 2 nce Ve Shot-to- anel BFS (mm) 36.0 36.0 36.0 35.0	- New locity: Edge: Note	Armor 1430 3 Sample Avg. Vet. (tt/sec) 1423.3 1425.5 1427.2 1427.2 1437.8 Statistics then 44	± 30 ft/s inches 6 Front Part (Y=11N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 33.0 34.0 27.0 12 1.568 1.568 anel BFS	Size: Note Size:	C-5 Avg, Vel, ((1/5ec) 1445.9 1452.5 1450.6 1427.8 1463.4 1444.8 Average: St. Dev.: C-1 Avg. Vel,	Back P, Part (Y=1/N=0) 0 0 0 0 0 0 0 333.7 3.08 Back P Part	anel BFS (mm) 32.0 31.0 32.0 32.0 mm mm anel BFS	Nate
Shot Numbor 1 2 3 4 5 6 7 8 Summa	Sample Avg. Vel. (ft/sec) 1431.1 1439.7 1431.7 1435.1 1420.5 1435.1 ry: Sample Avg. Vel.	5 Front Pa Perr (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 33.0 39.0 36.0 36.0 rations: n BFS: anel BFS	Size: Note 0 39.0	C-5 Avg. Vel. (ft/sec) 1426.1 1426.8 1423.2 1411.4 1432.6 1412.4 1412.4 1432.6 1424.3 (Pass) mm C-1 Avg. Vel. (ft/sec)	T: Refere S Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	hreat 2 nice Ve Shot-to- anel BFS (mm) 36.0 36.0 36.0 35.0 Vo BFS anel BFS (mm)	- New locity: Edge: Note	Armor 1430 3 Sample Avg. Vel. (ft/sec) 1423.3 1414.8 1402.3 1425.5 1427.2 1437.8 Statistics then 44 Sample Avg. Vel. (ft/sec)	± 30 ft/s inches Front Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 33.0 27.0 12 1.568 anel BFS (mm)	Size: Note	C-5 Avg, Vel. (If/sec) 1445.9 1452.5 1452.5 1452.6 1427.8 1463.4 1444.8 Average: St. Dev.: C-1 Avg, Vel. (ft/sec)	Back P Port (Y=1/h=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 32.0 31.0 32.0 32.0 mm mm mm anel BFS (mm)	
Shot Numbor 1 2 3 4 5 6 7 8 Summa Summa	Sample Avg. Vel. (ft%cc) 1431.1 1439.7 1435.1 1420.5 1435.1 1420.5 1435.1 ry: Sample Avg. Vel. (ft%cc) 1444.8	5 Front Part Pert 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 7 Front Part 9 Front Part 9 (Y=1/N=0) 7 Front Part 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 33.0 39.0 36.0 36.0 rations: m BFS: anel BFS (mm) 32.0	Size: Note 0 39.0 Size:	C-5 Avg. Val. (It/sec) 1425.1 1426.8 1423.2 1411.4 1432.6 1424.3 (Pass) mm C-1 Avg. Val. (It/sec) 1448.0	T. Refere S Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	hreat 2 nice Ve Shot-to- anel BFS (mm) 36.0 36.0 35.0 lo BFS anel BFS (mm) 32.0	- New locity: Edge: Note BFS greate	Armor 1430 3 Sample Avg. Vel. (ft/sec) 1423.3 1423.3 1425.5 1427.2 1437.8 Statistics then 44 Sample Avg. Vel. (ft/sec) 1426.8	± 30 ft/s inches Front Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 33.0 34.0 27.0 12 1.568 1.568 anel BFS (mm) 30.0	Size: Note Size:	C-5 Avg, Vel. (I/Jsec) 1445.9 1452.5 1450.6 1427.8 1463.4 1444.8 Average: St. Dev.: C-1 Avg. Vel. (It/scc) 1444.8	Back P Pert (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 33.7 3.08 Back P Pert (Y=1/N=0) 0	anel BFS (mm) 32.0 31.0 32.0 32.0 mm mm mm anel BFS (mm) 32.0	Nate
Shot Numbor 1 2 3 4 5 6 7 8 Summa Shot Numbor 1 2	Sample Avg. Vel. (ft/sec) 1431.1 1439.7 1435.1 1420.5 1435.1 1425.1 1435.1 1420.5 1435.1 1420.5 1435.1 1420.5 1435.1 1420.4 1444.8 1444.8 1449.9	5 Front Pc Perr (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 7 Front Pc Perr (Y=1/N=0) 0 0 0	anel BFS (mm) 33.0 39.0 36.0 36.0 rations: m BFS: anel BFS (mm) 32.0 35.0	Size: Note 0 39.0 Size:	C-5 (ft/sec) 1425.1 1426.8 1423.2 1411.4 1432.6 1424.3 (Pass) mm C-1 Avg. Vel. (ft/sec) 1448.0 1446.5	T. Refere S Back Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	hreat 2 nce Ve Shot-to- anel BFS (mm) 36.0 35.0 35.0 bo BFS anel BFS (mm) 32.0 36.0	- New locity: Edge: Note BFS greate	Armor 1430 3 Sample Avg. Vel. (tr/sec) 1423.3 1425.5 1427.2 1437.8 Statistics then 44 Sample Avg. Vel. (tr/sec) 1426.5 1427.2 1437.8 Statistics then 44 Avg. Vel. (tr/sec) 1423.3 1425.5 1427.2 1437.8 1425.5 1427.2 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.8 1437.	± 30 ft/s inches 6 Front Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 33.0 34.0 27.0 12 1.568 anel BFS (mm) 30.0 34.0	Size: Note Size:	C-5 (IUsec) 1445.9 1452.5 1450.6 1427.8 1463.4 1444.8 Average: S1. Dev.: C-1 Avg. Vel. (It/sec) 1444.8 1444.8 1444.8	Back P Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 33.7 3.08 Back P Part (Y=1/N=0) 0 0	anel BFS (mm) 32.0 31.0 32.0 32.0 (mm) anel BFS (mm) 32.0 35.0	Nate
Shot Numbor 1 2 3 4 5 6 7 8 Summa Shot Number 1 2 3	Sample Avg. Vel. (ft/sec) 1431.1 1439.7 1431.7 1435.1 1420.5 1435.1 1420.5 1435.1 Yv: Sample Avg. Vel. (ft/sec) 1444.8 1449.9 1436.3	5 Front Pe Perr (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 33.0 39.0 36.0 36.0 rations: m BFS: anel BFS (mm) 32.0	Size: Note 0 39.0 Size:	C-5 (fVsc) 1426.1 1426.8 1423.2 1411.4 1432.6 1424.3 (Pass) mm C-1 Avg. Vel. (fVsc) 1448.0 1446.5 1449.9	T; Refere 9 Pert (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	hreat 2 nice Ve Shot-to- anel BFS (mm) 36.0 36.0 35.0 lo BFS anel BFS (mm) 32.0	- New locity: Edge: Note BFS greate	Armor 1430 3 Sample Avg. Vet. (tt/sec) 1423.3 1425.5 1427.2 1437.8 Statistics then 44 Sample Avg. Vet. (trosec) 1446.8 1433.6 1449.8	± 30 ft/s inches 6 Front Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 33.0 34.0 27.0 12 1.568 1.568 anel BFS (mm) 30.0	Size: Note Size:	C-5 Avg, Vel. ([Usec) 1445.9 1452.5 1450.6 1427.8 1463.4 1444.8 Average: S1. Dev.: C-1 Avg. Vel. ((Usec) 1444.8 1437.2 1433.6	Back P, Pert (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 32.0 31.0 32.0 32.0 mm mm mm anel BFS (mm) 32.0	Nate
Shot Numbor 1 2 3 4 5 6 7 8 Summa Summa Summa Shot Numbor 1 2 3 4	Sample Avg. Vel. (ft/sec) 1431.1 1439.7 1435.1 1420.5 1435.1 1420.5 1435.1 1420.5 1435.1 1420.5 1435.1 1420.5 1435.1 1435.1 144.8 144.9 1436.3 1439.3	5 Front Pc Perr (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 33.0 39.0 36.0 36.0 rations: m BFS: anel BFS (mm) 32.0 35.0	Size: Note 0 39.0 Size:	C-5 Avg, Val. (fUsec) 1426.1 1426.8 1423.2 1411.4 1432.6 1424.3 (Pass) mm C.1 Avg. Val. (fUsec) 1448.0 1446.5 1449.9 1449.9	Tr. Refere S Port (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	hreat 2 nce Ve Shot-to- anel BFS (mm) 36.0 35.0 35.0 bo BFS anel BFS (mm) 32.0 36.0	- New locity: Edge: Note BFS greate	Armor 1430 3 Sample Avg. Vel. (It/sec) 1423.3 14143.3 1425.5 1427.2 1437.8 Statistics then 44 Avg. Vel. (It/sec) 1446.8 1433.6 1449.8 1442.0	± 30 ft/s inches 6 Front Part (Y=11N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 33.0 34.0 27.0 12 1.568 anel BFS (mm) 30.0 34.0	Size: Note Size:	C-5 Avg, Vel. (If/sec) 1445.9 1452.5 1450.6 1427.8 1463.4 1444.8 Average: S1. Dev.: C-1 Avg. Vel. (If/sec) 1444.8 1437.2 1433.6 1441.4	Back P Part (Y=1/h=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 32.0 31.0 32.0 32.0 (mm) anel BFS (mm) 32.0 35.0	Nate
Shot Numbor 1 2 3 4 5 6 7 8 8 Summa Shot Numbor 1 2 3 4 5	Sample Avg. Vol. (It/sec) 1431.1 1439.7 1435.1 1420.5 1435.1 1420.5 1435.1 ry: Sample Avg. Vel. (It/sec) 1444.8 1449.9 1436.3 1439.3 1434.3	5 Front Par Perr 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 7 Front Par Front Par (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 33.0 39.0 36.0 36.0 rations: m BFS: anel BFS (mm) 32.0 35.0	Size: Note 0 39.0 Size:	C-5 Avg. Vel. (ft/sec) 1425.1 1426.8 1423.2 1411.4 1432.6 1443.6 1424.3 (Pass) mm C-1 Avg. Vel. (ft/sec) 1448.0 1446.5 1449.9 1449.9 1447.4	T. Refere Back Part (Y=1/h=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	hreat 2 nce Ve Shot-to- anel BFS (mm) 36.0 35.0 35.0 bo BFS anel BFS (mm) 32.0 36.0	- New locity: Edge: Note BFS greate	Armor 1430 3 Sample Avg. Vel. (It/sec) 1423.3 1418.3 1425.5 1427.2 1437.8 Statistics then 44 Samplo Avg. Vel. (It/sec) 146.8 1448.8 1448.6 1449.8 1449.0 1461.8	± 30 ft/s inches Front Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 33.0 34.0 27.0 12 1.568 anel BFS (mm) 30.0 34.0	Size: Note Size:	C-5 Avg, Vel. ([Usec) 1445.9 1452.5 1450.6 1427.8 1463.4 1444.8 Average: S1. Dev.: C-1 Avg. Vel. ((Usec) 1444.8 1437.2 1433.6	Back P, Pert (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 32.0 31.0 32.0 32.0 (mm) anel BFS (mm) 32.0 35.0	Nate
Shot Numbor 1 2 3 4 5 6 7 8 8 Summa Shot Numbor 1 2 3 4 5 6	Sample Avg. Vel. (ft/sec) 1431.1 1439.7 1435.1 1420.5 1435.1 1420.5 1435.1 1420.5 1435.1 1420.5 1435.1 1420.5 1435.1 1435.1 144.8 144.9 1436.3 1439.3	5 Front Pc Perr (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 33.0 39.0 36.0 36.0 rations: m BFS: anel BFS (mm) 32.0 35.0	Size: Note 0 39.0 Size:	C-5 Avg, Val. (fUsec) 1426.1 1426.8 1423.2 1411.4 1432.6 1424.3 (Pass) mm C.1 Avg. Val. (fUsec) 1448.0 1446.5 1449.9 1449.9	Tr. Refere S Port (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	hreat 2 nce Ve Shot-to- anel BFS (mm) 36.0 35.0 35.0 bo BFS anel BFS (mm) 32.0 36.0	- New locity: Edge: Note BFS greate	Armor 1430 3 Sample Avg. Vel. (It/sec) 1423.3 14143.3 1425.5 1427.2 1437.8 Statistics then 44 Avg. Vel. (It/sec) 1446.8 1433.6 1449.8 1442.0	± 30 ft/s inches Front Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 33.0 34.0 27.0 12 1.568 anel BFS (mm) 30.0 34.0	Size: Note Size:	C-5 Avg, Vel. (II/sec) 1445.9 1452.5 1450.6 1427.8 1463.4 1443.4 Average: St. Dev.: C-1 Avg, Vel. (IVscc) 1444.8 1437.2 1433.6 1441.4 1442.3	Back P Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 32.0 31.0 32.0 32.0 mm mm anel BFS (mm) 32.0 35.0 33.0	Note
Shot Numbor 1 2 3 4 5 6 7 8 Summa Shot Numbor 1 2 3 4 5 6 7	Sample Avg. Vol. (It/sec) 1431.1 1439.7 1435.1 1420.5 1435.1 1420.5 1435.1 ry: Sample Avg. Vel. (It/sec) 1444.8 1449.9 1436.3 1439.3 1434.3	5 Front Par Perr 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 7 Front Par Front Par (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 33.0 39.0 36.0 36.0 rations: m BFS: anel BFS (mm) 32.0 35.0	Size: Note 0 39.0 Size:	C-5 Avg. Vel. (ft/sec) 1425.1 1426.8 1423.2 1411.4 1432.6 1443.6 1424.3 (Pass) mm C-1 Avg. Vel. (ft/sec) 1448.0 1446.5 1449.9 1449.9 1447.4	T. Refere Back Part (Y=1/h=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	hreat 2 nce Ve Shot-to- anel BFS (mm) 36.0 35.0 35.0 bo BFS anel BFS (mm) 32.0 36.0	- New locity: Edge: Note BFS greate	Armor 1430 3 Sample Avg. Vel. (It/sec) 1423.3 1418.3 1425.5 1427.2 1437.8 Statistics then 44 Samplo Avg. Vel. (It/sec) 146.8 1448.8 1448.6 1449.8 1449.0 1461.8	± 30 ft/s inches 6 Front Part (Y=11N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 33.0 34.0 27.0 12 1.568 anel BFS (mm) 30.0 34.0 34.0	Size: Note Size:	C-5 Avg, Vel. (IUsec) 1445.9 1452.5 1452.5 1452.5 1452.5 1452.5 1452.6 1444.8 1463.4 1444.8 Average: St. Dev.: C-1 Avg. Vel. (It/sec) 1444.8 1437.2 1433.6 1441.4 1424.3 1435.7	Back P, Pert (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 32.0 31.0 32.0 (mm) mm anel BFS (mm) 32.0 35.0 33.0	Note
Shot Numbor 1 2 3 4 5 6 7 8 Summa Shot Numbor 1 2 3 4 5 6 7 8	Sample Avg. Vel. (ft/sec) 1431.1 1439.7 1431.1 1435.1 1420.5 1435.1 1420.5 1435.1 1420.5 1435.1 1420.5 1435.1 1420.5 1435.1 1444.8 1444.8 1443.3 1439.3 1434.3 1435.1	5 Front P: Perr (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 7 Front P: r (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 33.0 39.0 36.0 36.0 rations: m BFS: anel BFS (mm) 32.0 35.0	Size: Note 0 39.0 Size: Note	C-5 Avg. Vel. (ft/sec) 1425.1 1426.8 1423.2 1411.4 1432.6 1424.3 (Pass) mm C-1 Avg. Vel. (ft/sec) 1448.0 1446.5 1449.9 1449.9 1447.4	T. Refere Back Part (Y=1/h=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	hreat 2 nce Ve Shot-to- anel BFS (mm) 36.0 35.0 35.0 bo BFS anel BFS (mm) 32.0 36.0	- New locity: Edge: Note BFS greate	Armor 1430 3 Sample Avg. Vel. (It/sec) 1423.3 1414.8 1402.3 1425.5 1427.2 1437.8 Statistics then 44 Sample Avg. Vel. (It/sec) 146.8 1433.6 1449.8 1443.9 Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics	± 30 ft/s inches Front Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 33.0 34.0 27.0 12 1.568 anel BFS (mm) 30.0 34.0 34.0	Size: Note Size: Note	C-5 Avg, Vel. (II/sec) 1445.9 1452.5 1450.6 1427.8 1463.4 1443.4 Average: St. Dev.: C-1 Avg. Vel. (I/sec) 1444.8 1437.2 1433.6 1441.4 1432.1 433.6 1441.4 1432.7 1435.7	Back P Pert (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 32.0 31.0 32.0 32.0 mm mm anel BFS (mm) 32.0 35.0 35.0 33.0	Note
Shot Numbor 1 2 3 4 5 6 7 8 8 Summa Shot Numbor 1 2 3 4 5 6 7	Sample Avg. Vel. (ft/sec) 1431.1 1439.7 1431.1 1435.1 1420.5 1435.1 1420.5 1435.1 1420.5 1435.1 1420.5 1435.1 1420.5 1435.1 1444.8 1444.8 1443.3 1439.3 1434.3 1435.1	5 Front P: Perr (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 7 Front P: r (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 33.0 39.0 36.0 36.0 after BFS: (mm) 32.0 35.0 35.0 after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after afte after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after after af	Size: Note 0 39.0 Size: Note	C-5 (fUsec) 1425.1 1426.8 1423.2 1411.4 1432.6 1424.3 (Pass) mm C-1 Avg. Vel. (fUsec) 1448.0 1449.9 1449.9 1449.5	T. Refere S Back Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	hreat 2 nce Ve Shot-to- anel BFS (mm) 36.0 35.0 35.0 No BFS anel BFS (mm) 32.0 36.0 35.0	- New locity: Edge: Note BFS greate	Armor 1430 3 Sample Avg. Vel. (It/sec) 1423.3 1414.8 1402.3 1425.5 1427.2 1437.8 Statistics then 44 Sample Avg. Vel. (It/sec) 146.8 1433.6 1449.8 1443.9 Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics Statistics	± 30 ft/s inches 6 Front Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 33.0 34.0 27.0 12 1.568 anel BFS (mm) 30.0 34.0 34.0	Size: Note Size: Note	C-5 Avg, Vel. (II/sec) 1445.9 1452.5 1450.6 1427.8 1463.4 1443.4 Average: St. Dev.: C-1 Avg. Vel. (I/sec) 1444.8 1437.2 1433.6 1441.4 1432.1 433.6 1441.4 1432.7 1435.7	Back P Pert (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 32.0 31.0 32.0 (mm) mm anel BFS (mm) 32.0 35.0 33.0	Note

Administration Regulation.

Diversion contrary to U.S. law is prohibited. BAE Systems

Perforation and BFS Summary Data

Keport f	Number:	10N00)9A		Test ID:	SAF09-00	1661					Rep	ort Date:	04	/14/10	
Manuf	facturer:	ę	Safarilai	ıd, LLC).	Model	Design	ation:	BA-2000	S-XT01			ŀ	IJ Armor	Type:	2
							1.0	nditio	ned Armo	١r						
۸mm	ounition	9mr	n	12	4/FM.)					± 30 ft/s		w	later Sub	mersion:	No	
7100	indina on					S.	hot-to-	Edge:	2	inches						
T	Sample	21	and an	Size:	C-5				Sample	22		Size:	C-1	<u>Anumaan sa daharan maray</u> a	****	
ŀ	oumpio	Front Pa	nel		r <u>** *</u>	Back Pa	nel			Front Pa	nel		r <u></u>	Back Pa	nel	~~~~~
Shot	Avg. Vel.	Perf	BFS		Avg. Vel.	Perf	BFS		Avg. Vel.	Port	BFS		Avg. Vel.	Perf	BF\$	
Number	(ft/sec)	(Y=1/N=0)		Note	(ft/sec)	(Y=1/N=0)	(mm)	Note	1 -	(Y=1/N=0)	(mm)	Note	(ft/sec)	(Y≂1/N=0)	(mm)	Note
1	1267.4	0	31.0	*****************	1246.7	0	27.0		1246.2	0	30.0		1264.5	0	30.0	
2	1247.2	0	33.0		1256.9	0	27.0		1249.4	0	32.0		1253.6	0	29.0	
3	1223.3	0	30.6		1274.0	0	28.0		1243.5	0	38.0		1260.5	0	32.0	
4	1277.5	0			1250.2	0			1255.1	0			1244.5	0		
5	1256.7	0			1253,2	0			1245.9	0			1238.5	0		
6	1242.0	0			1269.4	0			1253.6	0			1256.3	0		
7																
8																
Summary	y:	Perfor	ations:	0	(Pass)					Perfor			(Pass)			
		Maximun	n BFS.	33.0	តារាវា (no r	edimense	(I)			Maximun	n BFS	36.0	ana (no i	eouremen	i()	
AIUU	nunition:	.357 N	Лад	15	8/JSP	, T	'est Ve	locity:	ned Armo 1340	± 30 fVs		N	/ater Sub	mersion:	No	
anancohormoonioh761		.357 M				. T 	est Ve hot-to	locity:	<u>1340</u> 3	± 30 ft/s inches				mersion:	No	
enancokoranao vicht 61	nunition: Sample	23				S	hot-to	locity:	1340	± 30 fVs inches 24		W Size:				
	Sample	23 Front Pa	inel		C-5	S Back Pa	hot-to- nel	locity:	1340 3 Sample	± 30 ft/s inches 24 Front Pa	inel		<u>C-1</u>	Back Pa		
Shot	Sample Avg. Vel.	23 Front Pa Perf	inel BFS	Size:	C-5 Avg. Vel.	Back Pa Perf	hot-to nel BFS	locity: -Edge:	1340 3 Sample Avg. Vei.	± 30 ft/s inches 24 Front Pa Perf	nel BFS	Size:	C-1 Avg. Vel.	Back Pa Perf	nel BFS	Note
Shot Number	Sample Avg. Vel, (fUsec)	23 Front Pa Perf (Y=1/N=0)	nel BFS (mm)		C-5 Avg. Vel.	S Back Pa	hot-to nel BFS	locity:	1340 3 Sample Avg. Vei.	± 30 ft/s inches 24 Front Pa Perf	nel BFS	Size:	C-1 Avg. Vel.	Back Pa Perf (Y=1/N=0)	nel BFS	Note
Shot <u>Number</u> 1	Sample Avg. Vol. (fUsec) 1363.8	23 Front Pa Perf	inel BFS	Size:	C-5 Avg. Vel. (ft/sec)	Back Pa Perf (Y=1/N=0)	hot-to nel BFS (mm)	locity: -Edge:	1340 3 Sample Avg. Vei. (It/sec)	± 30 fVs inches 24 Front Pa Parf (Y=1/N=0) 0	nnel BFS (mm)	Size:	C-1 Avg. Vel. (ft/sec)	Back Pa Perf (Y=1/N=0) 0	nel BFS (mm)	Note
Shot Number 1 2	Sample Avg. Vel, (fUsec)	23 Front Pa Perf (Y=1/N=0) 0	inel BFS (mm) 29 0	Size:	C-5 Avg. Vel. (ft/sec) 1353.0	Sack Pa Perf (Y≃1/N=0) 0	hot-to nel BFS (mm) 31.0	locity: -Edge:	1340 3 Sample Avg. Vel. (It/sec) 1349.5	± 30 fVs inches 24 Front Pa Perf (Y=1/N=0) 0 0	mel BFS (mm) 30 0	Size:	C-1 Avg. Vel. (ft/sec) 1367.3	Back Pa Perf (Y=1/N=0) 0 0	nel BFS (mm) 32.0	Note
Shot <u>Number</u> 1	Sample Avg. Vel, (fl/sec) 1363.8 1365.8	23 Front Pa Perf (Y=1/N=0) 0 0	inel BFS (mm) 29 0 31 0	Size:	C-5 Avg. Vel. (ft/sec) 1353.0 1363.5	Sack Pa Perf (Y=1/N=0) 0 0	hot-to- nel BFS (mm) 31.0 30.0	locity: -Edge:	1340 3 Sample Avg. Vel. (It/sec) 1349.5 1363.7	± 30 ft/s inches 24 Front Pa Perf (Y=1/N=0) 0 0 0	mel BFS (mm) 30.0 32.0	Size:	C-1 Avg. Vel. (fUsec) 1367.3 1337.2	Back Pa Perf (Y=1/N=0) 0 0 0	nel BFS (mm) 32.0 32.0	Note
Shot <u>Number</u> 1 2 3	Sample Avg. Vol. (ft/sec) 1363.8 1365.8 1375.4	23 Front Pa Porf (Y=1/N=0) 0 0 0	inel BFS (mm) 29 0 31 0	Size:	C-5 Avg. Vel. (ft/sec) 1353.0 1363.5 1335.8	Back Pa Perf (Y≃1/N=0) 0 0 0	hot-to- nel BFS (mm) 31.0 30.0	locity: -Edge:	1340 3 Sample Avg. Vel. (It/sec) 1349.5 1363.7 1336.3	± 30 ft/s inches 24 Front Pa Perf (Y=1/N=0) 0 0 0	mel BFS (mm) 30.0 32.0	Size:	C-1 Avg. Vel. (ft/sec) 1367.3 1337.2 1344.9	Back Pa Perf {Y=1/N=0} 0 0 0 0	nel BFS (mm) 32.0 32.0	Note
Shot Number 1 2 3 4	Sample Avg. Vol. (ft/sec) 1363.8 1365.8 1375.4 1381.6	23 Front Pa Porf (Y=1/N=0) 0 0 0 0	inel BFS (mm) 29 0 31 0	Size:	C-5 Avg. Vel. (fUsec) 1353.0 1363.5 1335.8 1353.2	Back Pa Perf (Y≃1/N=0) 0 0 0 0	hot-to- nel BFS (mm) 31.0 30.0	locity: -Edge:	1340 3 Sample Avg. Vel. (It/sec) 1349.5 1363.7 1336.3 1354.0	± 30 ft/s inches 24 Front Pa Perf {Y=1/N=0} 0 0 0 0	mel BFS (mm) 30.0 32.0	Size:	C-1 Avg. Vel. (fUsec) 1367.3 1337.2 1344.9 1331.6	Back Pa Perf {Y=1/N=0} 0 0 0 0	nel BFS (mm) 32.0 32.0	Note
Shot Number 1 2 3 4 5	Sample Avg. Vol. (ft/sec) 1363.8 1365.8 1375.4 1381.6 1373.7	23 Front Pe Perf (Y=1/N=0) 0 0 0 0	inel BFS (mm) 29 0 31 0	Size:	C-5 Avg. Vol. (ft/sec) 1353.0 1363.5 1335.8 1353.2 1352.1	Sack Pa Perf (Y≃1/№=0) 0 0 0 0 0 0	hot-to- nel BFS (mm) 31.0 30.0	locity: -Edge:	1340 3 Sample Avg. Vel. (It/sec) 1349.5 1363.7 1336.3 1354.0 1346.0	± 30 ft/s inches 24 Front Pa Perf {Y=1/N=0} 0 0 0 0 0 0	mel BFS (mm) 30.0 32.0	Size:	C-1 Avg. Vel. (f050c) 1367.3 1337.2 1344.9 1331.6 1345.2	Back Pa Perf {Y=1/N=0} 0 0 0 0 0 0	nel BFS (mm) 32.0 32.0	Note
Shot Number 1 2 3 4 5 6	Sample Avg. Vol. (ft/sec) 1363.8 1365.8 1375.4 1381.6 1373.7	23 Front Pe Perf (Y=1/N=0) 0 0 0 0	inel BFS (mm) 29 0 31 0	Size:	C-5 Avg. Vol. (ft/sec) 1353.0 1363.5 1335.8 1353.2 1352.1	Sack Pa Perf (Y≃1/№=0) 0 0 0 0 0 0	hot-to- nel BFS (mm) 31.0 30.0	locity: -Edge:	1340 3 Sample Avg. Vel. (It/sec) 1349.5 1363.7 1336.3 1354.0 1346.0	± 30 ft/s inches 24 Front Pa Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0	BFS (mm) 30 0 32.0 31 0	Size: Note	C-1 Avg. Vel. [ft/sec] 1367.3 1337.2 1344.9 1331.6 1345.2 1341.0	Back Pa Perf {Y=1/N=0} 0 0 0 0 0 0	nel BFS (mm) 32.0 32.0	Note
Shot <u>Number</u> 1 2 3 4 5 6 7 8	Sample Avg. Vol. (ft/sec) 1363.8 1365.8 1375.4 1381.6 1373.7 1349.9	23 Front Pa Perf (Y=1/N=0) 0 0 0 0 0 0 0 0	inel BFS (mm) 29 0 31 0	Size: Note	C-5 Avg. Vol. (ft/sec) 1353.0 1363.5 1335.8 1353.2 1352.1	Sack Pa Perf (Y≃1/№=0) 0 0 0 0 0 0	hot-to- nel BFS (mm) 31.0 30.0	locity: -Edge:	1340 3 Sample Avg. Vel. (It/sec) 1349.5 1363.7 1336.3 1354.0 1346.0	± 30 ft/s inches 24 Front Pa Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mel BFS (mm) 30.0 32.0 31.0 31.0	Size: Note	C-1 Avg. Vet. [ft/sac] 1367.3 1337.2 1341.9 1345.2 1341.0 (Pass)	Back Pa Perf (Y=1IN=0) 0 0 0 0 0 0 0	nel BFS (mm) 32.0 32.0 32.0	Note
Shot <u>Number</u> 1 2 3 4 5 6 7 8	Sample Avg. Vol. (ft/sec) 1363.8 1365.8 1375.4 1381.6 1373.7 1349.9	23 Front Pa Perf (Y=1/N=0) 0 0 0 0 0 0 0 0	anel BFS (mm) 29 0 31 0 30 0 30 0	Size: Note	C-5 Avg. Vel. (ft/sec) 1353.0 1363.5 1335.8 1353.2 1352.1 1350.6 (Pass)	Sack Pa Perf (Y≃1/№=0) 0 0 0 0 0 0	hot-to nel BFS (mm) 34.0 36.0 26.0	locity: -Edge:	1340 3 Sample Avg. Vel. (It/sec) 1349.5 1363.7 1336.3 1354.0 1346.0	± 30 ft/s inches 24 Front Pa Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0	mel BFS (mm) 30.0 32.0 31.0 31.0	Size: Note	C-1 Avg. Vet. [ft/sac] 1367.3 1337.2 1341.9 1345.2 1341.0 (Pass)	Back Pa Perf {Y=1/N=0} 0 0 0 0 0 0	nel BFS (mm) 32.0 32.0 32.0	Note
Shot <u>Number</u> 1 2 3 4 5 6 7 8	Sample Avg. Vol. (ft/sec) 1363.8 1365.8 1375.4 1381.6 1373.7 1349.9	23 Front Pa Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 Perfor	anel BFS (mm) 29 0 31 0 30 0 30 0	Size: Note	C-5 Avg. Vel. (ft/sec) 1353.0 1363.5 1335.8 1353.2 1352.1 1350.6 (Pass)	S Back Part Part (Y=1(N=0) 0 0 0 0 0 0 0 0 0	hot-to- nel BFS (mm) 30.0 26.0 26.0	locity: Edge: Note	1340 3 Sample Avg. Vel. (tt/scc) 1349.5 1363.7 1336.3 1354.0 1346.0 1345.5	± 30 ft/s inches 24 Front Pa Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mel BFS (mm) 30.0 32.0 31.0 31.0	Size: Note	C-1 Avg. Vet. [ft/sac] 1367.3 1337.2 1341.9 1345.2 1341.0 (Pass)	Back Pa Perf (Y=1IN=0) 0 0 0 0 0 0 0	nel BFS (mm) 32.0 32.0 32.0	Noto
Shot Number 1 2 3 4 5 6 7	Sample Avg. Vol. (tt/sec) 1363.8 1365.8 1375.4 1381.6 1373.7 1349.9 y;	23 Front Pa Perf 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 29 0 31 0 30 0 30 0 ations: m BFS.	Size: Note 0 31.0	C-5 Avg. Vet. (tt/sec) 1363.0 1363.5 1335.8 1353.2 1352.1 1350.6 (Pass) ann (no /	S Back Pa Part (Y=1(N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	hot-to- nel BFS (mm) 34.0 36.0 26.0 26.0 26.0 26.0	Note	1340 3 Sample Avg. Vel. ((t/sec) 1349.5 1363.7 1336.3 1354.0 1357.5 1346.0 1357.5	± 30 ft/s inches 24 Front Pa Perf (Y=1(N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mel BFS (mm) 30 0 32.0 31 0 31 0	Size: Note	C-1 Avg. Vet. [ft/sac] 1367.3 1337.2 1341.9 1345.2 1341.0 (Pass)	Back Pa Perf (Y=1IN=0) 0 0 0 0 0 0 0	nel BFS (mm) 32.0 32.0 32.0	Note
Shot <u>Number</u> 1 2 3 4 5 6 7 8	Sample Avg. Vol. (tt/sec) 1363.8 1365.8 1375.4 1381.6 1373.7 1349.9 y;	23 Front Pa Port (Y=1(N=0) 0 0 0 0 0 0 0 0 0 0 0 0 Perfor Maximud	anel BFS (mm) 29 0 31 0 30 0 ations: n BFS.	O 31 0 20ujrem	C-5 Avg. Vet. (tt/sec) 1363.0 1363.5 1353.2 1352.1 1350.6 (Pass) mm (nd /	S Back Pa Part (Y=1(N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	hot-to nel BFS (mm) 31.0 33.0 26.0 26.0 26.0 (mm) 34.0 35.0 36.0 26.0 (mm) 26.0 (mm) 26.0 (mm) 26.0 (mm) 26.0 (mm) 26.0 (mm) 26.0 (mm) 26.0 (mm) 26.0 (mm) 26.0 (mm) 26.0 (mm) 26.0 (mm) 26.0 (mm) 26.0 (mm) 26.0 (mm) 26.0 (mm) 26.0 (mm) 26.0 (mm) 26.0 (mm) 26.0 (mm) 26.0 (mm) 26.0 (mm) 26.0 (mm) 26.0 (mm) 26.0 (mm) 26.0 (mm) 26.0 (mm) 26.0 (mm) 26.0 (mm) 26.0 (mm) 26.0 (mm) 26.0 (mm) 26.0 (mm) 26.0 (mm) 26.0 (mm) (mm) (mm) 26.0 (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm)	BFS S	1340 3 Sample Avg. Vel. (<i>It/soc</i>) 1349.5 1363.7 1336.3 1354.0 1346.0 1346.0 1357.5	± 30 ft/s inches 24 Front Pa Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	alions: n BFS	Size: Note 0 32.0	C-1 (ft/sec) 1367.3 1337.2 1344.9 1331.6 1345.2 1341.0 (Pass) (m) (no	Back Pa Porf (Y=1(N=0) 0 0 0 0 0 0 0	nel BFS (mm) 32.0 32.0 32.0 32.0 32.0	Noto

Backface Signature: <u>This requirement is for New armors only</u> Maximum BFS: 39.0 mm

This armor model meets the BFS performance requirements of NIJ Standard-0101.06 Section 7.8.8 Item a.

Compliance Test Report revision 4 (2009-08-02) / R version 2.7.1 (2008-06-23) / MS Excel version 11.0 / Operating System version Windows (32-bit) NT 5.01

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NIJ Standard-0101.06 July 2008

Ballistic Limit Summary Data

imber:	10N009A		Tost ID:	SAFOS	9-001661				Report	Date:	()4/14/10	
cturer:	Safariland, Ll	LC.		M	odel Des	ignation:	BA-20	00S-XT01					2
				Th	reat 1 - N	ew Armo	r					-	
nition	9mm	124	/FMJ					± 30 ft/s		W	ater Sub	mersion:	No
ample	11	Sample	11		Sample	12		Sample	12	*****	Sample	13	88.000
	Panel	Back	Panel		Front	Panel		Back	Panel		Front	Panel	
vg. Vel.	Perf		Perf			Porf		Avg. Vel.	Peri		Avg. Vel.	Perf	
				Note			Note	(ft/sec)	(Y=1/N=0)	Note	(tt/sec)	(Y=1/N=0)	Note
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		1											
		1			1								
								1			4		
					1			1					
		4						3			1		
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	1				1	0							
668.13	0		0		1778.94	0		1				0	
746.98	0		0		1835.78	1		1708.73	0		1611.71	0	
	-												
ample	13	Sample	14		Sample	14		Sample	15		Sample	15	
ack	Panel	Front			1			Front				Panel	
vg. Vel.					-			1 -			-		
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		1						1			1		
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		1			1			1			1		
825.89	1	1			1			1	0		1	1	
785.76	0	1804.78	1		1685.55	0		1694.58	1		1599.33	0	
779.88	1	1717.39	1		1738.66	0		1663.81	1		1642.72	0	
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Ronros	sion Analysi	la		0				abst statestime					
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			8 0.	1					:		tanin dan kalendari k		nse
Estima	ated V05: 15	545 ft/s	<u>م</u> 0.	3								Est. V50	
				2		· • • • • • • • •		·				-Est. V05	
			i.i			11-22	······································	4	••;•••••		6		
city (130)5 fl/sec): 0,	1% Accepta	ble 0.	0		no per la com		408-000-008	199; 	{			
				1000	1200	1400	1	1600	1800	2000			
						Vel	ocity (f	t/s)					
						Vel	ocity (f	•	en 1100		en e u		o i 1
	ample ont vg, Val. ft/soc) 270.1 429.0 488.8 602.0 703.4 632.3 703.7 734.34 573.78 747.36 746.98 ample ack vg, Val. ft/soc) 313.4 466.1 541.9 648.2 735.9 852.1 759.81 822.23 750.99 852.589 785.76 779.88 orations State state state state	Safariland, L nition: 9mm ample 11 ont Panel vg. Vel. Perf ft/sec) (Y=1/N=0) No. 270.1 0 429.0 0 488.8 0 602.0 0 703.4 1 632.3 0 703.7 0 734.34 1 573.78 0 747.36 1 668.13 0 746.98 0 ack Panel vg. Vel. Perf ft/soc) (Y=1/N=0) 735.9 0 852.1 1 750.90 0 852.1 1 750.90 0 852.1 1 750.90 0 822.23 1 785.76 0 779.88 1 Total U Orations (Complete P S	Safariland, LLC. Inition: 9mm 124 ample 11 Sample ront Panel Back vg. Vel. Perf Avg. Vel. ft/sec) (Y=1/N=0) Note (ft/sec) 270.1 0 1248.8 Avg. Vel. 429.0 0 1433.0 488.8 0 1507.1 602.0 0 1433.0 488.8 0 1507.1 632.3 0 1637.2 703.7 0 1711.08 734.34 1 1748.26 1703.95 747.36 1 1644.66 658.13 0 1699.81 746.98 0 1730.93 466.1 0 1523.0 746.98 0 1730.93 466.1 0 1523.0 741.9 0 1620.7 648.2 0 1536.6 735.9 0 1282.4 852.1 1 1528.0 759.81 0 1536.07	Safariland, LLC. nition: 9mm 124/FMJ ample 11 Sample 11 colspan="2">Sample 11 Sample 11 colspan="2">Sample 11 Sample 11 colspan="2">Sample 14 Avg. Vel. Port type: 1248.8 0 14433.0 0 1760.7 1 Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspan="2"Colspa="2"Colspan="2"Colspan="2"Colspa="2"Colspa="2	Safariland, LLC. M The inition: The inition: The inition: The inition: ample 11 The inition: ample 11 Sample 11 colspan="2">The inition: The inition: ample 11 The inition: ample 11 Sample 11 colspan="2">The inition: Year: Inition: May well. Perf The initian initinitian initian initian initian initian initian initi	Safariland, LLC. Model Des nition: 9mm 124/FMJ Threat 1 - N ample 11 Sample 11 Sample ample 11 Sample 11 Sample ample 11 Sample Hreat 1 - N root Panel Back Panel Avg. Vel. 270.1 0 1248.8 0 1379.7 488.8 0 1507.1 0 1648.2 703.4 1 1760.7 1 1721.9 632.3 0 1637.2 0 1687.0 703.4 1 1748.26 1 1684.96 637.3.78 0 1703.95 1 1676.03 747.36 1 1644.66 0 1778.94 746.98 0 1592.0 0 1440.1 5468.13 0 1523.0 0 1440.1 541.9 0 1620.7 1 1539.5 648.2	Model Designation: Threat 1 - New Armore Reference Velocity: Intreat 1 - New Armore Velocity: Intreat 1 - New Armore Reference Velocity: Intreat 1 - New Armore Netrence Velocity: Intreat 1 - New Armore Netrence Velocity: Intreat 1 - New Armore Netrence Velocity: Intreat 1 - Netrence Velocity: Intreat 1 - Netrence Intreat 1 - Netrence	Starriland, LLC. Model Designation: BA-20 nittion: 9mm 124/FMJ Threat 1 - New Armor Reference Velocity: 1305 ample 11 Sample 12 ront Panel Back Panel Front Panel vg. Vol. Perf Avg. Vol. Perf (Usec) (Y=1/N=0) Note 270.1 0 1248.8 0 1379.7 0 488.8 0 1507.1 0 1511.0 0 602.0 0 1598.6 0 1687.0 1 703.7 0 1711.08 1687.0 1 632.3 0 1637.2 0 1687.0 1 703.7 0 1703.95 1 1676.03 0 747.36 0 1703.93 0 1835.78 1 armple 13 Sample 14 Sample 14 ack Panel Vay, Vol. Part (Way, Vol. Part (Way, Vol. <td>Safariland, LLC. Model Designation: BA-2000S-XT01 nition: 9mm 124/FMJ Threat 1 - New Armor Reference Velocity: 1305 \pm 30 ft/s ample 11 Sample 11 Sample 12 Sample ont Panel Back Panel Avg. Vel. Perf Avg. Vel.</td> <td>Safariland, LLC. Model Designation: BA-2000S-XT01 nition: 9mm 124/FMJ Threat 1 - Naw Armor Reference Velocity: 1305 ± 30 ft/s ample 11 Sample 12 Sample 12 minition: 9mm 124/FMJ Sample 12 Sample 12 ample 11 Sample 12 Sample 12 Sample 12 guesel YF-11N=0 Note (Wase) YF-11N=0 Note Wase) YF-11N=0</td> <td>Stateriland, LLC. Model Designation: BA-2000S-XT01 Intton: 9mm 124/FMJ Threat 1 - New Armor Reference Velocity: 1305 ± 30 ft/s M ample 11 Sample 12 Sample 12 M ample 11 Sample 12 Sample 12 M gv Vol. Perf Avg. Vol.<!--</td--><td>Sturer: Safariland, LLC. Model Designation: BA-2000S-XT01 NLJ Arm nitton: 9mm 124/FMJ Threat 1 - Now Armor Reference Velocity: 1305 ± 30 ft/s Water Sub ample 11 Sample 11 Sample 12 Sample 12 Sample Yater Sub armole Panel Back Panel Front Arg. vel. Panel Arg. vel.</td><td>Starriland, LLC. Model Designation: BA-20005:XT01 NLJ Armor Type: Inition: 9mm 124/FMJ Thread 1 Now Armor Water Submersion: ample 11 Sample 12 Sample 13 Sample 13 aront Panol Back Panol Front Panel Arg.vk. Perf Arg.vk.</td></td>	Safariland, LLC. Model Designation: BA-2000S-XT01 nition: 9mm 124/FMJ Threat 1 - New Armor Reference Velocity: 1305 \pm 30 ft/s ample 11 Sample 11 Sample 12 Sample ont Panel Back Panel Avg. Vel. Perf Avg. Vel.	Safariland, LLC. Model Designation: BA-2000S-XT01 nition: 9mm 124/FMJ Threat 1 - Naw Armor Reference Velocity: 1305 ± 30 ft/s ample 11 Sample 12 Sample 12 minition: 9mm 124/FMJ Sample 12 Sample 12 ample 11 Sample 12 Sample 12 Sample 12 guesel YF-11N=0 Note (Wase) YF-11N=0 Note Wase) YF-11N=0	Stateriland, LLC. Model Designation: BA-2000S-XT01 Intton: 9mm 124/FMJ Threat 1 - New Armor Reference Velocity: 1305 ± 30 ft/s M ample 11 Sample 12 Sample 12 M ample 11 Sample 12 Sample 12 M gv Vol. Perf Avg. Vol. </td <td>Sturer: Safariland, LLC. Model Designation: BA-2000S-XT01 NLJ Arm nitton: 9mm 124/FMJ Threat 1 - Now Armor Reference Velocity: 1305 ± 30 ft/s Water Sub ample 11 Sample 11 Sample 12 Sample 12 Sample Yater Sub armole Panel Back Panel Front Arg. vel. Panel Arg. vel.</td> <td>Starriland, LLC. Model Designation: BA-20005:XT01 NLJ Armor Type: Inition: 9mm 124/FMJ Thread 1 Now Armor Water Submersion: ample 11 Sample 12 Sample 13 Sample 13 aront Panol Back Panol Front Panel Arg.vk. Perf Arg.vk.</td>	Sturer: Safariland, LLC. Model Designation: BA-2000S-XT01 NLJ Arm nitton: 9mm 124/FMJ Threat 1 - Now Armor Reference Velocity: 1305 ± 30 ft/s Water Sub ample 11 Sample 11 Sample 12 Sample 12 Sample Yater Sub armole Panel Back Panel Front Arg. vel. Panel Arg. vel.	Starriland, LLC. Model Designation: BA-20005:XT01 NLJ Armor Type: Inition: 9mm 124/FMJ Thread 1 Now Armor Water Submersion: ample 11 Sample 12 Sample 13 Sample 13 aront Panol Back Panol Front Panel Arg.vk. Perf Arg.vk.

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Page 1 of 3

Ballistic Limit Summary Data

Report I	Numbør:	10N00	aΔ		Test ID	· SAFN	-001661	it Summ			Report	Date	ſ	4/14/10	
Manuf	facturer:	Safariland		•	100110			ignation:	BA-20	00S-XT01		Dato,		or Type:	2
												•••			
A	unition	257 N	100	159	JSP			ew Armo Velocity:		+ 20 8/0		10/	ator Sub	nersion:	Mo
Annn	nanaon	.357 N	lay	130	JOP		10101100	verocity.	1430	1 30 103			ater Subi	liersion,	110
www.wearsonanteird.rpt	Sample	16		Sample	16	n fan Springer an Springer oan staar ster ster ster ster ster ster ster ste	Sample	17	************	Sample	17	hi kar-tina karanan	Sample	18	
	Front	Panel		Back	Panel		Front	Panel			Panel		Front	Panel	
Shot	Avg, Vel.	Perf		Avg. Vel.	Perf		Avg, Vel.	Perf		Avg. Vel.	Perf		Avg. Vel.	Parl	
lumber	(It/sec)	(Y=1/N=0)	Note	(fVsec)	(Y=1/N=0) Note	(fl/sec)	(Y=1/N=0)	Note	(ft/soc)	(Y=1/N=0)	Note	(ft/sec)	(Y=1/N=0)	Note
1	1424.3	0		1427.6	0		1416.9	0		1430.1	0		1422.4	0	
2	1575.1	0		1549.7	0		1554.6	0		1536.6	0		1518.8	0	
3	1642.2	0		1655.5	1	1	1626.4	0		1612.3	0		1590.1	0	
4	1668.8	1		1577.4	0		1757.5	1		1729.6	1		1704.4	1	
5	1703.1	0		1630.5	1		1675.6	1		1663.4	1		1665.6	1	
6	1697.9	1		1594.0	1		1602.8	1 1		1577.4 1620	0		1585.5	1 0	
7 8	1699.96 1632.37	1		1630.47	1 0		1573.28 1450.82			1582.93	1 0		1503.22 1558.81	0	
9	1587.5	0		1570.26	ŏ		1513.18	0		1643.33	0		1624.32	õ	
10	1645.03	1		1636.76	1		1580.09	õ		1655.25	1		1658.85	1	
11	1596.57	0		1583.98	ò		1651.1	1		1619.77	1		1612.3	1	
12	1647.21	Ō		1599.69	0		1595.5	0		1569.01	0		1555.34	0	
13															
14															
15									****						
	Sample	18		Sample	19		Sample	19		Sample	20		Sample	20	
1	Back	Panel		Front	Panel		Back	Panel		Front	Panel		Back	Panel	
Shot	Avg. Vel.	Perf		Avg. Vol.	Perf		Avg. Vel.	Perf		Avg, Vel,	Perf		Avg. Vel.	Perf	
lumbor	(ft/sec)	(Y=1/N=0)	Note	(ft/sec)	(Y=1/N=0) Note	(ft/sec)	(Y=1/N=0) 0	Note	(ft/sec) 1432.4	(Y=1/N=0) 0	Note	(IUsec) 1433.5	(Y=1/N=0) 0	Note
1	1427.8 1525.1	0 0		1428.8 1516.0	0		1420.8	0		1534.2	0		1433.5	0	
2 3	1638.1	0		1670.8	0		1630.6	1		1606.0	0		1608.6	1	
4	1656.3	Ő		1746.8	1		1532.0	Ó		1736.4	1		1556.4	0 0	
5	1732.0	1		1738.4	1		1586.5	1		1636.0	1		1591.6	1	
6	1707.3	1		1642.2	1		1540.0	0		1576.6	0		1530.7	0	
7	1630.47	1		1601.52	1		1591.64	1		1634.84	1		1602.6	1	
8	1590.89	0		1508.08			1554.41	0		1572.55			1541.19	0	
9	1594.21	1		1570.78			1602.82			1527.3	0		1593.46	0	
10	1549.45			1626.21	1		1653.29			1570.05			1665.36	1	
11	1623.21			1573.54	0		1579.88			1531.06			1591.64	1	
12	1564.26	0		1616.03	0		1628.34	0		1586.53	0		1545.31	0	
13															
14 15															
lummar	L	Tota	al Usal	i ple Shots:	120	Good	4	anaya ka da sa	Pe	rforations	below 14	60 ft/s:	0	Acceptat	ole
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ħ	Model Pa	rameters:	β0:		-	.8			1.1		******	• • •	*	Tesl Data	
			β1:	0.033	~ .	.7	• • • • • • • • • •		4 1 -	Sterres and the second s	· · · · · · · · ·	•••	testingen popul	⊶V Ref.	
	Cation	ated V50:	4649	610	iit o	.6 • • • •		· · · · · }]	11	·	••••••	•••		V Ref. + 3	0
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	Fatim	ated V05:	1523	ft/s	<u>b-</u>	.4				Ľ				Est. V50	
	_91111					.3			1.1.	<i>E</i>	· · · · · · · · · · · ·			→Est. V05	
Proba	bility of p	erforation	at NIJ	reference		.1			1.1/					Eat. 200	
		05 ft/sec):						ie	1-de	, 1000-0					
vel		,		•			4000	4400		1600	1000	2000			
vel						1000	1200	1400		1000	1800	2000			
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ENPORT FRONTLED DATA These conmodules technologics or soft the distribution for export in secondaries viabilities distribution Administration Regulation, Diversion contrary to U.S. law is prohibited. BAE Systems

Page 2 of 3

For Test Laboratory Use

NATIONAL INSTITUTE OF JUSTICE COMPLIANCE TEST REPORT

Ballistic Limit Summary Data

Renort	Numbor:	10N00	I9A		Test ID:	SAFO	9-001661			Report	Date:	C)4/14/10	
		Safariland				M	odel Designation:	BA-20	00S-XT01				or Type:	2
Manta							•	tions in allow						
		eat 1 - Co						• • • • •				oned Arm		
	nunition:				/FMJ	NI.			nunition:			158/		Ma
Test	Velocity:	1245	± 30 tV	ls	Wet:	NO	-	lest	Velocity:	1340	± 30 n	/5	. Wet: _	110
Posta consideration			lover graves and strength	newspanderstradies and		, and the second second	1	r	Manan I.a	00		Comple	26	ananya ana ana ana ana ana ana ana ana a
	Sample	25		Sample	25				Sample	26 Danal		Sample Back	Panel	
	Front	Panel			Panel				Front	Panel		Avg. Vel.	Perf	
Shot	Avg. Vel.	Perf		Avg. Vel.	Perf	Maka		Shot	Avg, Vel. (ft/sec)	Perf (Y=1/N=0)	Note	AVG. VOI. (fVsec)	Perr (Y=1/N=0)	Note
Number	(ft/sec)	(Y=1/N=0)	Note	(It/sec) 1222.5	(Y≃1/N=0) 0	Note	~	Num 1	(10/sec)	(V=N(V=0) ()	NOTO	1339.4	0	NUID
	1233.6	0		1222.5	0			2	1456.8	0		1459.8	0	
2	1346.5	0		1402.5	0			3	1547.2	0		1540.9	1	
3	1472.5	0		1530.4	0		1	4	1641.4	1		1467.3	0	
4	1544.8			1606.2	0			5	1565.3	1		1517.4	0	
5	1673.6	1		1713.0	1			6	1486.6	0		1576.3	0	
6	1580.3	0	ļ	1657.46				7	1520.65	0		1613.84		ļ
7	1676.08		1	1676.08				8	1588.33	0		1589.08		
8	1618.35		1	1720.79	-			9	1617.58			1519	, O	
9	1566.74			1656.31				10	1636.76			1598.08		ļ
10	1606.73			1656.31	1			11	1702.89			1593.68	-	
11	1653.77		1				1	12	1670.41	0		1661.64		
12	1696.08	0		1600.98	U			13	1070.91	U		1001.04	U	1
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Summar		111-abia	OF star	24	Acceptab	Ja		Sum	-	al Usable	Shots	24	Acceptab	ماه
ĺ		tal Usable			Ассертац	4G				erforation			Accoptor	10
ļ	۲	erforations					1		,		s (PP):			
		Stops	s (PP):	17						Grop	5 (1) /	10		
Pe	erforations	s below 12	75 ft/s:	: 0	Acceptat	ıle		Pe	erforations	below 13	70 ft/s:	: 0	Acceptab	le
	Domo	nalan Ana	hueie						Rear	ession An	aivsis			
1		ssion Ana on Model:		gistic				1		on Model:		gistic		
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	928.7.4.2.7.2.2.7.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1				C)verall	Ballistic Limit Su	mmary	0	*****				
P.	erforatio	ns below \	√ref +	30 ft/sec:	: 0	This	requirement is for	all Balli	stlc Limit	tested san	nples -	New and	Condition	<u>ed</u>
		This arm	or mod	lel meets	the low pe	erforati	ion velocity perform	ance re	equiremer	nts of NIJ S	Standa	rd-0101.0	6 Section	7.9.5.
							A							

 Probability of perforation at the P-BFS reference velocity
 This requirement is for New armors only

 Threat 1:
 0.1%

 Threat 2:
 0.2%

 This armor model meets the estimated V05 performance requirements of NIJ Standard-0101.06 Section 7.9.5.

Compliance Test Report revision 4 (2009-08-02) / R version 2.7.1 (2008-06-23) / MS Excel version 11.0 / Operating System version Windows (32-bit) NT 5.01

EXPORT CONTROLLED DATA

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Date Received:06/28/10Via:Fed ExReturned Via:UPS

Record No: BAE101151 Test Date: 06/28/10 Customer: Safariland, LLC

Test Conditions °F. Temperature: 72 52 % Humidity: Clay Block No.: 8 °F. 101 Clay Temp.: 21 Drops (Avg.): mm Test Spec.: Modified/Abbreviated NIJ 0101.06 Special Threat Threat Level:

Range 2	
Muzzle to Scr. 1:	5.08 ft.
Screen 1 - 2:	5,73 ft.
Screen 2 - Target:	5.29 ft.
Midpoint to Target:	8.16 ft.
Target to Witness:	0 ft.
Barrel Length:	4 in.
Clay Block:	5.5 in.

Samp	ole/Test Desci	ription	an anna gu ga chuir ann amhraidh	an a	Ammuniti	on Descript	ion	Chron	ograph	Results	
Sample	Sample	Wet	0-45 Deg.	Shot	Shot	Caliber	Bullet	TIME	VELOCITY	Perforation	
Side	Weight (lb.)	Dry	Angle	No.	Location		Wt./Type	sx-5	fps	BFS (mm)	
XT01	1.64	Wet	0	1	1	357 Sig	125/GDHP	423.5	1353	30	
XT01	1.64	Wet	0	2	2	357 Sig	125/GDHP	425.0	1348	31	
XT01	1.64	Wet	0	3	3	357 Sig	125/GDHP	423.1	1354	31	
XT01	1.64	Wet	30	4	4	357 Sig	125/GDHP	419.9	1364	No Perforation	
XT01	1.64	Wet	45	5	5	357 Sig	125/GDHP	424.4	1350	No Perforation	
XT01	1.64	Wet	0	6	6	357 Sig	125/GDHP	418.7	1368	No Perforatio	
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his test was	performed in a	ccordanc	e with the		United Sta	tes Test Lab	oratory	316-8	32-1600	Phone	
necification r	equirements a	nd the re	sults proper	lv	7447 W. 3				32-1602	Fax	
	listic performar				Wichita, K		U.S.A.				
EMADKC/M								· · · · ·			

REMARKS/NOTES:

*Sample conditioned per N.I.J. 0101.06 Sec. 7.8.2.

**Projectiles provided by customer.

Ammunition:

Speer 357 Sig 125gr. GDHP (23918) @1375 fps (+/-30).

Sample Tested:

Model No.:	BA-2000S-XT01
Size:	LRC
DoM:	June 2010
Serial No.:	10107981
Lot No.:	019218
Front Panel	

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Date Received: 06/28/10 Fed Ex Via: UPS Returned Via:

Test Conditions

Temperature:	72	°F.
Humidity:	52	%
Clay Block No.:	8	
Clay Temp.:	101	°F,
Drops (Avg.):	21	mm
Test Spec.:	Modified/	Abbreviated NIJ 0101.06
Threat Level:	Special T	hreat

Record No:	BAE101152
Test Date:	06/28/10
Customer:	Safariland, LLC

Range 2 5.08 ft. Muzzle to Scr. 1: Screen 1 - 2: 5.73 ft. Screen 2 - Target: 5.29 ft. 8.16 ft. Midpoint to Target: Target to Witness: Oft. Barrel Length: 4 in. 5.5 in. Clay Block:

Samp	le/Test Desci	ription			Ammunitio	on Descript	ion	Chron	ograph	Results
Sample	Sample	Wet	0-45 Deg.	Shot	Shot	Caliber	Bullet	TIME	VELOCITY	Perforation
Side	Weight (ib.)	Dry	Angle	No.	Location		Wt./Type	sx-5	fps	BFS (mm)
XT01	1,65	Wet	0	1	1	9mm	127/SXT	462.5	1238	29
XT01	1.65	Wet	0	2	2	9mm	127/SXT	459.4	1247	31
XT01	1,65	Wet	0	3	3	9mm	127/SXT	453.7	1263	34
XT01	1.65	Wet	30	4	4	9mm	127/SXT	455.5	1258	No Perforatio
XT01	1.65	Wet	45	5	5	9mm	127/SXT	454.9	1259	No Perforatio
XT01	1.65	Wet	0	6	6	9mm	127/SXT	456.3	1255	No Perforatio
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no lest was ponification r	equirements a	nd the re	sults proper	v	7447 W. 3				32-1602	Fax
	istic performar				Wichita, K		U.S.A.			
EMARKS/N			, note a barry		L					

REMARKS/NOTES:

*Sample conditioned per N.I.J. 0101.06 Sec. 7.8.2.

**Projectiles provided by customer.

Ammunition:

Winchester 9mm 127gr. SXT +P+ (RA9TA) @1250 fps (+/-30).

Sample Tested:

BA-2000S-XT01 Model No.: LRRC Size: June 2010 DoM: 10107994 Serial No.: Lot No.: 019218 Back Panel

A.M. M. C. C. S. C. B. C. M. B. P. S. M. C. M.

These commodifies, factualogy, or software an controlled tor coport in a conduited with the U.S. Export

Administration Regulation. Diversion contrary to U.S. law is prohibited

BAE Systems

Date Received:06/28/10Via:Fed ExReturned Via:UPS

Record No: BAE101153 Test Date: 06/28/10 Customer: Safariland, LLC

Test ConditionsTemperature:72

· •		
Humidity:	52	%
Clay Block No.:	8	
Clay Temp.:	101	°F.
Drops (Avg.):	21	mm
Test Spec.:	Modified/	Abbreviated NIJ 0101.06
Threat Level:	Special T	hreat

°F,

Range 2	
Muzzle to Scr. 1:	5.08 ft.
Screen 1 - 2:	5.73 ft.
Screen 2 - Target:	5.29 ft.
Midpoint to Target:	8,16 ft.
Target to Witness:	0 ft.
Barrel Length:	4 in.
Clay Block:	5.5 in.

Samr	ole/Test Desci	ription			Ammunitio	on Descript	ion	Chron	ograph	Results
Sample	Sample	Wet	0-45 Deg.	Shot	Shot	Callber	Bullet	TIME	VELOCITY	Perforation
Side	Weight (lb.)	Dry	Angle	No.	Location		Wt./Type	sx-5	fps	BFS (mm)
XT01	1.64	Wet	0	1	1	9mm	124/HST	461.7	1241	26
XT01	1.64	Wet	0	2	2	9mm	124/HST	461.9	1240	28
XT01	1.64	Wet	0	3	3	9mm	124/HST	459.8	1246	28
XT01	1.64	Wet	30	4	4	9mm	124/HST	466.7	1227	No Perforation
XT01	1.64	Wet	45	5	5	9mm	124/HST	464.0	1234	No Perforation
XT01	1.64	Wet	0	6	6	9mm	124/HST	463.8	1235	No Perforation
XIOT	1.01								-	
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This lest was	requirements a	nd the re	euite nroner	lv.	7447 W. 3				32-1602	Fax
					Wichita, K		U.S.A.	510 0		
effect the bal	listic performar		s natou sann		Linoinu, IV		0.000			

REMARKS/NOTES:

*Sample conditioned per N.I.J. 0101.06 Sec. 7.8.2.

**Projectiles provided by customer.

Ammunition:

Federal 9mm 124gr. +P HST (P9HST1) @ 1250 fps (+/-30).

Sample Tested:

 Model No.:
 BA-2000S-XT01

 Size:
 LRC

 DoM:
 June 2010

 Serial No.:
 10107987

 Lot No.:
 019218

 Front Panel
 10107987

EXPOSE COLL OF A POLL These commodius - to biodes y or source or second add for export in according - with the table to port Administration Regulation. Diversion contrary to U.S. law is prohibited. BAE Systems

Date Received:06/28/10Via:Fed ExReturned Via:UPS

Record No: BAE101154 Test Date: 06/28/10 Customer: Safariland, LLC

Test Conditions

Temperature:	72	°F.			
Humidity:	52	%			
Clay Block No.:	8				
Clay Temp.:	100	°F.			
Drops (Avg.):	21	mm			
Test Spec.:	Modified/Abbreviated NIJ 0101.06				
Threat Level:	Special Threat				

Range 2	
Muzzle to Scr. 1:	5.08 ft.
Screen 1 - 2:	5.73 ft.
Screen 2 - Target:	5.29 ft.
Midpoint to Target:	8.16 ft.
Target to Witness:	0 ft.
Barrel Length:	4 in.
Clay Block:	5.5 in.

Samp	le/Test Desci	ription	a de la deservación de la construcción de la construcción de la construcción de la construcción de la construcc	alahologia ang kanananana	Ammuniti	on Descripti	on	Chron	ograph	Results
Sample	Sample	Wet	0-45 Deg.	Shot	Shot	Caliber	Bullet	TIME	VELOCITY	Perforation
Side	Weight (lb.)	Dry	Angle	No.	Location		Wt./Type	sx∙5	fps	BFS (mm)
XT01	1.64	Wet	0	1	1	40 S&W	165/SXT	478.8	1196	30
XT01	1.64	Wet	0	2	2	40 S&W	165/SXT	512.0	1119	28
XT01	1.64	Wet	0	3	3	40 S&W	165/SXT	486.5	1177	31
XT01	1.64	Wet	30	4	4	40 S&W	165/SXT	498.8	1148	No Perforation
XT01	1.64	Wet	45	5	5	40 S&W	165/SXT	510.5	1122	No Perforation
XT01	1.64	Wet	0	6	6	40 S&W	165/SXT	511.9	1119	No Perforation
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									-	
This test was	performed in a	ccordanc	e with the		United Sta	tes Test Lab	oratory	316-8	32-1600	Phone
specification requirements and the results properly				7447 W. 3	3rd St. N.		316-8	32-1602	Fax	
reflect the ball	listic performan	nce of the	listed samp	ole.	Wichita, K	S 67205	U.S.A.			

REMARKS/NOTES:

*Sample conditioned per N.I.J. 0101.06 Sec. 7.8.2.

**Projectiles provided by customer.

Ammunition:

Winchester 40 Cal. 165gr. SXT (RA40TA) @1140 fps (+/-30).

 Sample Tested:

 Model No.:
 BA-2000S-XT01

 Size:
 LRRC

 DoM:
 June 2010

 Serial No.:
 10107995

 Lot No.:
 019218

 Back Panel
 Image: Second Se

EXPORT (13., 119, 179) These commodules, technology of the second second

BAE Systems

Date Received:7/7/10Via:FedExReturned Via:UPS

Record No: BAE101242 Test Date: 07/13/10 Customer: BAE Systems

Test Conditions

Temperature:	70	°F.
Humidity:	55	%
Clay Block No.:	3	
Clay Temp.:	101	°F.
Drops (Avg.):	21	mm
Test Spec .:	Modified/	Abbreviated NIJ 0101.06
Threat Level:	11	
Condition [.]	New	

Range 4 Muzzle to Scr. 1: 6.67 ft. Screen 1 - 2: 5.73 ft. Screen 2 - Target: 4.63 ft. Midpoint to Target: 7.50 ft. Target to Witness: 0 ft. Barrel Length: 4 in. Clay Block: 5.5 in.

Condition:	INEM						na ana ao amin'		an an aire bar for the statement of a too 44.0	cwgcapabwycaugugagadad przewiadategiantystanistwa 2010/0/2/1/2/
Samp	ole/Test Desc	ription		Ammunition Description				Chron	ograph	Results
Sample	Sample	Wet	0-45 Deg.	Shot	Shot	Caliber	Bullet	TIME	VELOCITY	Perforation
Size	Weight (lb.)	Dry	Angle	No.	Location		Wt./Type	sx-5	fps	BFS (mm)
LCR	1.60	Wet	0	1	1	357 Sig	125/TMJ	425.7	1346	29.37
LCR	1.60	Wet	0	2	2	357 Sig	125/TMJ	420.9	1361	26.86
LCR	1.60	Wet	0	3	3	357 Sig	125/TMJ	427.1	1341	24.78
LCR	1.60	Wet	30	4	4	357 Sig	125/TMJ	432.4	1325	No Perforation
LCR	1.60	Wet	45	5	5	357 Sig	125/TMJ	427.8	1339	No Perforation
LCR	1.60	Wet	0	6	6	357 Sig	125/TMJ	426.3	1344	No Perforation
									-	
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This test was	performed in a	ccordanc	e with the			tes Test Lab	oratory		32-1600	Phone
specification r	equirements ar	nd the res	results properly 7447 W. 33rd St. N.				316-8	32-1602	Fax	
reflect the ball	istic performan	ice of the	listed samp	ole.	Wichita, K	5 67205	U.S.A.			
DESEADION										

REMARKS/NOTES:

Shot location marking per NIJ 0101.06, Section 7.8.1.

Shot-to-edge distance: 2.25" *Projectile and velocity per customer request.

Sample Tested:

Model No.:	BA-2000S-XT01	
Panel Side:	Front	
Size:	LCR	These commodities to fundage, or a first are no controlled
DoM:	Jun-10	for export in accordance with the C.S. Loport
Serial No.:	10107983	5
Lot No.:	019218	Administration Regulation.
Threat Level:	11	Diversion contrary to U.S. law is prohibited.
		DAE Contonas

BAE Systems

Date Received.: 12/09/10 Via: FedEx Returned Via: UPS

Test Conditions

Temperature:	73	°F.
Humidity:	34	%
Clay Block No.:	9	
Clay Temp.:	98	°F.
Drop Avg.:	18.81	mm
Test Spec.:	Modified/A	bbreviated NIJ 0101.06
Threat Level:	Special Th	nreat
Conditioning	\//et	

Record No.: BAE102433 Test Date: 12/13/10 Customer: BAE Systems

Range 2 Muzzle to Screen 1: 5.37 ft. Screen 1 - 2: 5.73 ft. Screen 2 - Target: 5.38 ft. Midpoint to Target: 8.25 ft. Target to Witness: 0 ft. Clay Block: 5.5 in. Barrel Length: 4 in.

Conditioning:	Wet	#2505595657454965654484					•	01		Deputto
Samp	Sample/Test Description					tion Descript		Chrono		Results
Sample	Sample	Wet	0-30 Deg.	Shot	Shot	Caliber	Bullet	TIME	VELOCITY	Penetration
Side	Weight (lbs.)	Dry	Angle	No.	Location		Wt./Type	sx-5	fps	BFS (mm)
Back	1.64	Wet	0	1	1	5.7x28mm	SS197	323.2	1772	22.07
Back	1.64	Wet	0	2	2	5.7x28mm	SS197	334.8	1711	21.07
Back	1,64	Wet	0	3	3	5.7x28mm	SS197	336.7	1701	20.51
Back	1.64	Wet	30	4	4	5.7x28mm	SS197	331.2	1729	No Penetrati
Back	1.64	Wet	45	5	5	5.7x28mm	SS197	340.0	1685	No Penetrati
Back	1.64	Wet	0	6	6	5.7x28mm	SS197	326.8	1753	No Penetrati
This test was p	performed in ac	cordance	e with the		1	States Test La	boratory		32-1600	Phone
specification re	equirements an	d the res	ults properly	/	1	. 33rd St. N.		316-83	32-1602	Fax
	istic performant	ce of the	listed samp	le.	Wichita	, KS 67205	U.S.A.			
REMARKS/NG										
Customer requ	uested factory v	elocities.								

Sample Tested:

Manufacturer:	BAE Systems BA-2000S-XT01	
Model No.:		· "我们这个不能的,你们的你们不是不是你的。"
Serial No.:	10107966	
Lot No.:	01918	These commo littles to back good to be a minullad
Size:	LCR	for expan in accord as the first the figurat
DoM:	Jun-2010	Admini traism by utation.
Threat Level:	11	Diversion contrary to 11.5, law is prohibited.
		EAE Systems

Childers/J. Nold



A Product of the Safariland™ Company

TECHNICAL SPECIFICATION Xtreme[®] Series – XT01F – Type II

Test Standard	NIJ Standard: 0101.06				
Model	NIJ: BA-2000S-XT01F				
Threat Type	11				
Configuration	Semi-Structured				
Armor Material	Twaron [®] Microlaminate, Gold Shield [®] GN-2117, Female Semi- structured [®] (Cover Dart Technology™), Advanced Side Tack Stitching				
Armor Panel Covering	2 ply, 70 Denier Textured Nylon Blockade with TPU lamination system				
Areal Density [lbs/ft ²]	0.93				
Thinness [inches] ASTM Standard D1777-97	0.208				
New V50 – .9 mm FMJ RN 124gr [ft/s]	1661				
Conditioned V50 – .9 mm FMJ RN 124gr [ft/s]	1638				
New V50 – .357 Mag JSP 158gr [ft/s]	1603				
Conditioned V50 – .357 Mag JSP 158gr [ft/s]	1635				
Backface Average – .9 mm	30.71				
Backface Average – .357 Mag	33.04				
Additional Special Threats have been Tested at USTL in accordance with Modified/Abbreviated NIJ 0101.06 Standard IAW Sec 7.8.2 unless otherwise specified.					
Federal 9mm 124GR.+P+ HST–Tested Velocity 1250) fps - No Perforations - IAW Section 7.8.1- Shot to Edge 2.25"				
Speer .357 Sig 125 GDHP (54234)-Tested Velocity13	375fps - No perforations - IAW Section 7.8.1- Shot to Edge 2.50"				
 Winchester .40 Cal 165Gr. SXT (RA40TA)-Tested Ve Edge 2.25" 	elocity 1140 fps - No perforations- IAW Section 7.8.1- Shot to				

EXPORT CONTROLLED DATA.

These commodities, technology or software are controlled for export in accordance with the U.S. Export Administration Regulations. Diversion contrary to U.S. law is prohibited.



1. Scope:

The scope of this product specification provides information relating to the American Body Armor® Xtreme® Series XT01F (Type II) Model (NIJ Model # BA-2000S-XT01F) that is compliant with National Institute of Justice (NIJ) Standard 0101.06 Ballistic Resistance of Personal Body Armor for Type II classification and manufactured by Safariland[™].

2. Research & Development and Manufacturing:

The manufacturer (Safariland[™]) of the armor model, as listed on the NIJ's Compliant Product List (CPL), solely performs the research, development, and manufacturing capabilities described below. Other manufacturers of armor models listed on the CPL that have outsourced similar capabilities shall be deemed as inferior.

Capabilities	Internal	Out Sourced
Soft Armor Research and Development	X	
Hard Armor Research and Development	X	
Soft and Hard Armor Ballistic, Stab and Fragmentation Testing	X	
Soft and Hard Armor Non-Destructive and Destructive Testing	X	
Carrier Research and Development	X	
Domestic Soft and Hard Armor Manufacturing Facilities	X	
Domestic and International Carrier Manufacturing Facilities	X	

3. Armor Design (Construction):

The American Body Armor[®] Xtreme[®] Series XT01F (Type II) model has the following armor design characteristics:

Feature(s)	Definition(s)	Benefit(s)
Hybrid Technology	The use of multiple types of ballistic, stab, fragmentation and blunt trauma resistant materials in armor design.	Provides the perfect balance between blunt trauma reduction and ballistic resistance against a wide array of bullets.
Woven Aramid - Teijin Twaron [®]	The use of Teijin Twaron [®] products made from Aramid fibers in various size yarns (dtex) that are woven together to form a fabric of material.	Provides a high level of ballistic resistance with high impact properties, excellent thermal stability and chemical resistance. The addition of coatings and micro-laminates enhance the chemical and mechanical properties for durability in various conditions.
Gold Shield [®] GN-2117 Unidirectional Aramid Fiber	Honeywell's latest addition to the Gold family of soft armor products. Gold Shield [®] GN-2117 combines Honeywell's patented Shield technology with aramid fiber. Gold Shield [®] GN-2117 is a ballistic product consisting of two plies of unidirectional aramid fiber, cross-plied at 0°/90°.	Gold Shield [®] GN-2117 provides strong protection against the NIJ .06 threats and alternate threats. It has excellent fragmentation protection as well as substantial reduction of blunt trauma in a ballistic event. Gold Shield [®] GN-2117 was designed for increased flexibility and comfort.
Covered Dart Construction (Female Semi-Structured Design)	The technique of forming bust cups through the cutting of darts into the armor panel, then stitching an additional armor insert over the dart to provide the designated level of protection	Provides an exact imitation of the female bust area allowing for 360 ⁰ degrees of protection without the exposed area caused by butted slits or darts. In addition, allows uniformity for both male and female armor model in material design for both genders.

30 June 2011

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Feature(s)	Definition(s)	Benefit(s)
Advanced Stitching (Vertical Side Tacks)	The use of side tacks or vertical stitch lines sewn on both sides of the armor panel.	The advanced stitch design increases the ballistic performance of the armor panel by creating less yaw (tumbling or turning of the bullet). This provides an expanded reinforced area along the side of the armor panel for increased performance during edge shots.
Grip Loc [™] Integrated Suspension System	The use of adhesive tabs sewn to the armor panel that adheres to the interior of the cover material. In addition, Velcro [®] Hook Tabs are adhered to the exterior of the cover material for added support.	This provides an integrated suspension system that transfers the weight of the armor panel through the cover material and carrier to the shoulder straps. The suspension system prevents the armor panel from bunching at/on the bottom of the carrier and forming horizontal set wrinkles, therefore, increasing the life cycle of the ballistics and adding additional protection in a ballistic event.
Water resistant Cover with Heat Sealed Edges	The use of a Brookwood 70 Denier nylon blockade with TPU lamination system that has a hydrostatic resistance (ASTM-D 751) minimum of 120 pounds per square inch (PSI) to burst and breakaway adhesion (ASTM-D 5035) minimum of 25 pounds per inch (lbs/in). Armor panel has edges heat- sealed through a son bond process with a minimum of a .25" wide seal.	Provides a durable protective cover around the armor panels that resists environmental contaminate(s).

4. Armor Design (Ballistic Performance):

The American Body Armor[®] Xtreme[®] Series XT01F (Type II) has the following performance characteristics as documented through a combination of NIJ Body Armor Compliance Testing Summary Reports, Independent NIJ Laboratory Testing Reports, and internal Safariland[™] Ballistic Laboratory Testing:

Feature(s)	Data
Areal Density (lbs per square foot)	0.93 (lbs ft ²)
Thinness (inches)	0.208 (in)
.9 mm Estimated V-50 (New) (feet per second)	1661 (fps)
.9 mm Estimated Velocity with 95 % Probability of Stop V-05 (New) (feet per second)	1538 (fps)
.9 mm Probability of Perforation at P-BFS (New) (percentage)	0.0 (%)
.9 mm Average Backface Signature (New) (millimeters)	30.71 (mm)
.357 Mag Estimated V50 (NEW) (feet per second)	1603 (fps)
.357 Mag Estimated Velocity of 95% Probability of Stop V-05 (NEW) (feet per second)	1531 (fps)
.357 Mag Probability of Perforation at P-BFS (NEW) (percentage)	0.1 (%)
.357 Mag Average Backface Signature (NEW) (millimeters)	33.04 (mm)
.9 mm Estimated V-50 (conditioned) (feet per second)	1638 (fps)
.357 Mag Estimated V-50 (conditioned) (feet per second)	1635 (fps)
Independent NIJ Laboratory Special Threat Testing – 6 Shot Perforation – Backface Signature (P-BFS)	Speer .357 Sig 125 GDHP, Winchester .40 Cal 165Gr.SXT, Federal 9mm 124GR.HST,

5. Availability:

The American Body Armor[®] Xtreme[®] Series XT01F (Type II) model is available in accordance with the NIJ Compliance Product List (CPL) as follows:

Classification(s)	Current Status
NIJ Template Size Availability	NIJ C-1 through NIJ C-5
Gender Neutral Armor Model Design Availability	No
Gender Specific Shape and Grade for Male(s) Availability	No
Gender Specific Shape and Grade for Female(s) Availability	Yes

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6. Support Programs: (Continued)

Classification(s)	Current Status				
Warranty	5 Years				
Quality Assurance Program(s)	ISO 9001 / Vest Check Program				
Safety Assurance Program(s)	OHSAS 18001				
Environmental Assurance Program(s)	ISO 14001				
Liability Insurance	Information Available Upon Request				





U.S. Department of Justice

Office of Justice Programs

National Institute of Justice

Washington, D.C. 20530

July 27, 2010

Scott O'Brien President Safariland, LLC 3120 East Mission Blvd Ontario, CA 91761

> Notice of Compliance with NIJ Standard–0101.06 Body Armor Model Designation: BA-2000S-XT01F NIJ Compliance Status Expires: July 27, 2015

Dear Mr. O'Brien:

We have completed our evaluation of the body armor model identified above that was submitted to the National Institute of Justice's (NIJ's) Voluntary Body Armor Compliance Testing Program. We are pleased to inform you that the above body armor model satisfies the requirements of NIJ Standard–0101.06 and the Compliance Testing Program.

We also received your completed declaration concerning the model noted above and your agreement to participate in the conformity assessment follow-up process.

The body armor model details are listed on the NIJ Compliant Products List available at <u>www.justnet.org/CTP</u>.

You are now authorized to place the NIJ Statement of Compliance on the labels of this body armor model and all subsequent production units. The Statement of Compliance shall read:

"This model of armor has been determined to comply with NIJ Standard–0101.06 by the NIJ Compliance Testing Program and is listed on the NIJ Compliant Products List."

All compliance requirements, as identified by the *NIJ Body Armor Compliance Testing Program Administrative Manual* and the *Ballistic Body Armor Applicant Package*, must be maintained as long as the NIJ Statement of Compliance is displayed on this armor model's labels. If, at any time, the compliance status of this armor model is changed, the NIJ Statement of Compliance shall cease to be used as of the date of the status change.

Sincerely,

John & Star

Debra Stoe Physical Scientist National Institute of Justice

Experimentation of the second second

					1 61	Iorano			Jummai	<u>y Data</u>						
Report	Number:	10N01	0B		Test ID:		01662					Rep	ort Date:		/20/10	
Manu	facturer	S	afarila	nd, LLC		Model	Design	ation:	BA-2000	S-XT01F			ſ	IIJ Armor	Type:	
						т	hreat 1	- New	Armor							
Amr	nunition:	9mn	1	124	/FMJ	Refere	ence Vel	locity:	1305	± 30 ft/s		w	ater Sub	mersion:	Yes	
							Shot-to-	Edge:	CONTRACTOR DESCRIPTION OF THE PARTY OF THE P	inches						
	Sample	1		Size:	C-5				Sample	2		Size:	<u>C-5</u>			
		Front Pa				Back Pa				Front Pa				Back Pa		
Shot	Avg. Vel.	Perf	BFS		Avg. Vel.	Perf	BFS		Avg, Vel.	Perf	BFS		Avg. Vel.	Perf	BFS	
Number	(ft/sec)	(Y=1/N=0)		Note	(ft/sec)	(Y=1/N=0)		Note	(ft/sec)		(mm)	Note	(ft/sec)	(Y=1/N=0) 0		Note
1	1309.4	0	28.0		1315.2	0	30.0		1324.7	0	26.0		1316.2		28.0 23.0	
2	1323.0	0	36.0		1304.5	0	31.0 33.0		1317.8 1311.5	0	28.0 33.0		1304.6 1316.6	0 0	29.0	
3	1314.8	0	36.0	~	1318.0 1302.8	0 0	33.0		1311.5	0		~	1324.4	0 0	25.0	
4 5	1321.4 1300.5	0 0		g	1302.8	0			1316.2	0		g g	1326.0	Ő		
5 6	1313.9	0		9	1323.0	õ			1315.5	õ		9	1312.1	0		i
7	1010.0	0			1020.0	0			/	-						
8																
Summar	<u>เ</u> 	Perfor	ations:	0	(Pass)			BFS	Statistics:	Count:	12		Average:	30,1	mm	
umman	y.	Maximun									1.568		St. Dev.:		mm	
						(Pass - N	No BFS	greater	then 44 r	nm)						
			anna dei niedelaisie													
	Sample	3	720-201741/19980319	Size:	C-1				Sample	4		Size:	C-1			
		Front Pa	nel			Back P	anel		[Front Pa	nel			Back Pa	inel	
Shot	Avg. Vel.	Perf	BFS		Avg. Vel.	Perf	BFS		Avg. Vel.	Perf	BFS		Avg. Vel.	Perf	8FS	
Number	(ft/sec)	(Y=1/N=0)		Note	(ft/sec)	(Y=1/N=0)		Note		(Y=1/N=0)		Note	(ft/sec)	(Y=1/N=0)		Note
1	1327.4	0	30.0		1333.4	0	29.0		1331.9	0	29.0		1313.6	0	28.0	
2	1331.0	0	35.0		1314.1	0	35.0		1308.3	0	28.0		1316.7	0	28.0	
3	1322.1	0	36.0		1306.9	0	33.0		1314.2	0	34.0		1306.2	0	31.0	
4	1299.7	0		9	1302.8	0			1305.3	0		g	1320.6	0		
5	1316.2	0		g	1316.4	0			1315.0	0		g	1326.4	0		
6					1301.0	0			1308.3	0			1329.6	0		
	1322.1	0			1001.0	Ū.							1			
7	1322.1	0			1001.0	Ŭ										
7 8		40.505.71.2 00. 000.0000.0000				v		DEQ	Statistics	Countr	12	•••••••••	Averane	313	mm	
7		Perfor	ations:		(Pass)		generg net måssen skrimer	BFS	Statistics:		12		Average: St. Dev.		mm mm	
7 8		****			(Pass)		No BES			k1:	12 1.568		Average: St. Dev.:		mm mm	
7 8		Perfor			(Pass)		No BFS		Statistics: r then 44 r	k1:						
7 8		Perfor			(Pass)	(Pass - I	nia munika sa	greate	r then 44 r	k1:		ana				
7 8 Summai	ry:	Perfor Maximur	n BFS:	36.0	(Pass) mm	(Pass - I	l hreat 2	greate	r then 44 r Armor	k1: nm)			St. Dev.	3.08	mm	
7 8 Summai		Perfor Maximur	n BFS:	36.0	(Pass)	(Pass - I T Refer	l hreat 2	greate - New locity:	r then 44 r Armor 1430	k1:			St. Dev.		mm	
7 8 Summai	ry: munition:	Perfor Maximur .357 M	n BFS:	36.0 15	(Pass) mm 8/JSP	(Pass - I T Refer	Threat 2 ence Ve	greate - New locity:	r then 44 r Armor 1430	k1: mm) <u>± 30 ft/s</u>			St. Dev.: Vater Sut	3.08	mm	
7 8 Summai	ry:	Perfor Maximur .357 M	n BFS: Mag	36.0	(Pass) mm 8/JSP	(Pass - I T Refer	Threat 2 ence Ve Shot-to	greate - New locity:	Armor <u>1430</u> 3	k1: nm) <u>± 30 ft/s</u> inches	1.568	V	St. Dev.: Vater Sut	3.08	mm Yes	
7 8 Summai Ami	ry: munition:	Perfor Maximur .357 f 5 Front Pa	n BFS: Mag	36.0 15	(Pass) mm 8/JSP	(Pass - I Refer Back P	Threat 2 ence Ve Shot-to	greate - New locity:	Armor <u>1430</u> 3	k1: nm) <u>± 30 ft/s</u> inches 6 Front Pa	1.568	V	St. Dev.: Vater Sut	3.08 omersion: Back P	mm Yes	
7 8 Summar Am Shot	ry: munition: Sample Avg. Vel.	Perfor Maximur .357 f 5 Front Pa	n BFS: Mag anel BFS	36.0 15 Size :	(Pass) mm 8/JSP C-5 Avg. Vel.	(Pass - I Refer Back P	Threat 2 ence Ve Shot-to Panel BFS	greate - New locity:	Armor 1430 3 Sample Avg. Vel.	k1: nm) <u>± 30 ft/s</u> inches 6 Front Pa	1.568 Inel BFS	V	St. Dev.: Vater Sub C-5 Avg. Vel.	3.08 omersion: Back P Perf	mm Yes anel BFS (mm)	Note
7 8 Summai Ami	ry: munition: Sample Avg. Vel.	Perfor Maximur .357 M 5 Front Parf	n BFS: Mag anel BFS	36.0 15 Size: Note	(Pass) mm 8/JSP C-5 Avg. Vel.	(Pass - I Refer Back P Perf	Threat 2 ence Ve Shot-to Panel BFS	greate - New clocity: -Edge:	Armor 1430 3 Sample Avg. Vel.	k1: nm) ± 30 ft/s inches 6 Front Pa Perf	1.568 Inel BFS	V Size:	St. Dev.: Vater Sub C-5 Avg. Vel.	3.08 omersion: Back P Perf	mm Yes anel BFS (mm) 30.0	
7 8 Summar Am Shot Number	ny: munition: Sample Avg. Vel. (ft/sec)	Perfor Maximur 	n BFS: Mag anel BFS (mm)	36.0 15 Size: Note	(Pass) mm 8/JSP C-5 Avg. Vel. (ft/sec) 1445.0 1427.2	(Pass - I Refer Back P Perf (Y=1/N=0 0 0	Threat 2 vence Ve Shot-to Panel BFS (mm) 29.0 37.0	greate - New clocity: -Edge:	Armor 1430 3 Sample Avg. Vel. (ft/sec) 1424.9 1425.9	k1: <u>+ 30 ft/s</u> inches 6 Front Pa Perf (Y=1/N=0) 0 0	1.568 Innel BFS (mm) 30.0 34.0	V Size:	St. Dev.: Vater Sub C-5 Avg. Vel. (ft/sec) 1422.4 1407.1	3.08 500000000000000000000000000000000000	mm Yes anel BFS (mm) 30.0 34.0	
7 8 Summar Am Shot <u>Number</u> 1	ry: Sample Avg. Vel. (ft/sec) 1434.7	Perfor Maximur .357 M 5 Front Pa Perf (Y=1/N=0) 0	Mag Mag anel BFS (mm) 32.0	36.0 15 Size: Note	(Pass) mm 8/JSP C-5 Avg. Vel. (ft/sec) 1445.0 1427.2 1451.4	(Pass - I Refer Back P Perf (Y=1/N=0 0 0 0	Threat 2 ence Ve Shot-to Panel BFS 0) (mm) 29,0	greate - New clocity: -Edge:	Armor 1430 3 Sample Avg. Vel. (ft/sec) 1424.9 1425.9 1434.9	k1: <u>+ 30 ft/s</u> <u>inches</u> 6 Front Pa Perf (Y=1/N=0) 0 0 0 0	1.568 Inel BFS (mm) 30.0	V Size: Note	St. Dev.: Vater Suk C-5 Avg. Vel. (ft/sec) 1422.4 1407.1 1423.2	3.08 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	mm Yes anel BFS (mm) 30.0	
7 8 Summar Amr Shot <u>Number</u> 1 2	ry: Sample Avg. Vel. (ft/sec) 1434.7 1429.2	Perfor Maximur .357 f 5 Front Parf (Y=1/N=0) 0 0 0 0	Mag Anel BFS (mm) 32.0 33.0	36.0 15 Size: Note	(Pass) mm 8/JSP C-5 Avg. Vel. (ft/sec) 1445.0 1427.2 1451.4 1452.3	(Pass - I Refer Back P Perf (Y=1/N=0 0 0 0 0	Threat 2 vence Ve Shot-to Panel BFS (mm) 29.0 37.0	greate - New clocity: -Edge:	r then 44 r 1430 3 Sample Avg. Vel. (ft/sec) 1424.9 1425.9 1439.7	k1: <u>+ 30 ft/s</u> inches 6 Front Part (Y=1/N=0) 0 0 0 0 0	1.568 Innel BFS (mm) 30.0 34.0	_ V Size: Note	St. Dev Vater Sutt C-5 Avg. Vel. (ft/sec) 1422.4 1407.1 1423.2 1432.2	: 3.08 omersion: Back P Perf (Y=1/N=0) 0 0 0 0	mm Yes anel BFS (mm) 30.0 34.0	
7 8 Summar Amr Number 1 2 3 4 5	ry: Sample Avg. Vel. (ft/sec) 1434.7 1429.2 1425.1 1428.3 1428.2	Perfor Maximur 	Mag Anel BFS (mm) 32.0 33.0	36.0 15 Size: Note	(Pass) mm 8/JSP C-5 Avg. Vel. (ft/sec) 1445.0 1445.0 1445.2 1451.4 1452.3	(Pass - 1 Refer Back P Yerf (Y=1/N=0 0 0 0 0 0 0 0 0 0	Threat 2 vence Ve Shot-to Panel BFS (mm) 29.0 37.0	greate - New clocity: -Edge:	Armor 1430 3 Sample Avg. Vel. (ft/sec) 1424.9 1425.9 1434.9 1434.7 1432.6	k1: <u>+ 30 ft/s</u> <u>inches</u> <u>6</u> Front Pa Pert (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0	1.568 Innel BFS (mm) 30.0 34.0	V Size: Note	St. Dev.: Vater Suk C-5 Avg. Vel. (ft/sec) 1422.4 1407.1 1423.2 1432.2 1446.9	: 3.08 pmersion: Back P Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0	mm Yes anel BFS (mm) 30.0 34.0	
7 8 Summar Am Shot Number 1 2 3 4 5 6	ry: Sample Avg. Vel. (tt/sec) 1434.7 1429.2 1425.1 1438.3 1428.2 1428.2 1423.4	Perfor Maximur .357 f Front Par (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0	Mag Anel BFS (mm) 32.0 33.0	36.0 15 Size: Note	(Pass) mm 8/JSP C-5 Avg. Vel. (ft/sec) 1445.0 1427.2 1451.4 1452.3	(Pass - I Refer Back P Perf (Y=1/N=0 0 0 0 0	Threat 2 vence Ve Shot-to Panel BFS (mm) 29.0 37.0	greate - New clocity: -Edge:	Armor 1430 3 Sample Avg. Vel. (ft/sec) 1424.9 1425.9 1434.9 1434.9 1434.9 1434.9 1434.9 1432.6 1425.5	k1: <u>+ 30 ft/s</u> <u>inches</u> <u>6</u> Front Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	1.568 Innel BFS (mm) 30.0 34.0	_ V Size: Note	St. Dev Vater Sutt C-5 Avg. Vel. (ft/sec) 1422.4 1407.1 1423.2 1432.2	: 3.08 pmersion: Back P Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0	mm Yes anel BFS (mm) 30.0 34.0	
7 8 Summar Am Number 1 2 3 4 5 6 7	ry: Sample Avg. Vel. (ft/sec) 1434.7 1429.2 1425.1 1428.3 1428.2	Perfor Maximur .357 f Front Par (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0	Mag Anel BFS (mm) 32.0 33.0	36.0 15 Size: Note	(Pass) mm 8/JSP C-5 Avg. Vel. (ft/sec) 1445.0 1445.0 1445.2 1451.4 1452.3	(Pass - 1 Refer Back P Yerf (Y=1/N=0 0 0 0 0 0 0 0 0 0	Threat 2 vence Ve Shot-to Panel BFS (mm) 29.0 37.0	greate - New clocity: -Edge:	Armor 1430 3 Sample Avg. Vel. (ft/sec) 1424.9 1425.9 1434.9 1434.7 1432.6	k1: <u>+ 30 ft/s</u> <u>inches</u> <u>6</u> Front Pa Pert (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0	1.568 Innel BFS (mm) 30.0 34.0	_ V Size: Note	St. Dev.: Vater Suk C-5 Avg. Vel. (ft/sec) 1422.4 1407.1 1423.2 1432.2 1446.9	: 3.08 pmersion: Back P Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0	mm Yes anel BFS (mm) 30.0 34.0	
7 8 Summar Am Number 1 2 3 4 5 6 7 8	ry: Sample Avg. Vel. (f/sec) 1434.7 1429.2 1425.1 1438.3 1428.2 1428.4 1433.65	Perfor Maximur 5 Front Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Mag anel BFS (mm) 32.0 33.0 33.0	36.0 15 Size: Note 9 9	(Pass) mm 8/JSP C-5 Avg. Vel. (tt/sec) 1445.0 1427.2 1451.4 1452.3 1452.3 1452.3 1431.7	(Pass - 1 Refer Back P Yerf (Y=1/N=0 0 0 0 0 0 0 0 0 0	Threat 2 vence Ve Shot-to Panel BFS (mm) 29.0 37.0	greate - New city: -Edge: Note	Armor 1430 3 Sample Avg. Vel. (ft/sec) 1424.9 1425.9 1439.7 1432.6 1425.5 1416.7	k1: <u>+ 30 ft/s</u> inches 6 Front Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0	1.568 mel BFS (mm) 30.0 34.0 31.0	_ V Size: Note	St. Dev.: Vater Suk C-5 Avg. Vei. (ft/sec) 1422.4 1407.1 1423.2 1432.2 1432.2 1446.9 1429.2	: 3.08 omersion: Back P Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	mm Yes anel BFS (mm) 30.0 34.0 28.0	
7 8 Summar Am Number 1 2 3 4 5 6 7 8	ry: Sample Avg. Vel. (f/sec) 1434.7 1429.2 1425.1 1438.3 1428.2 1428.4 1433.65	Perfor Maximur .357 f Front Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Mag Anel BFS (mm) 32.0 33.0 33.0 33.0	: 36.0 <u>15</u> Size: Note 9 9 2	(Pass) mm 8/JSP C-5 Avg. Vel. (ft/sec) 1445.0 1427.2 1451.4 1452.3 1452.3 1452.3 1431.7 (Pass)	(Pass - 1 Refer Back P Yerf (Y=1/N=0 0 0 0 0 0 0 0 0 0	Threat 2 vence Ve Shot-to Panel BFS (mm) 29.0 37.0	greate - New city: -Edge: Note	Armor 1430 3 Sample Avg. Vel. (ft/sec) 1424.9 1425.9 1434.9 1434.9 1434.9 1434.9 1434.9 1432.6 1425.5	k1: <u>+ 30 ft/s</u> inches 6 Front Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	1.568 mel BFS (mm) 30.0 34.0 31.0	V Size: Note 9 9	St. Dev.: Vater Sub C-5 Avg. Vel. (ft/sec) 1422.4 1407.1 1423.2 1432.2 1432.2 1446.9 1429.2 Average	: 3.08 mersion: Back P Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mm Yes anel BFS (mm) 30.0 34.0 28.0	
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7 8 Summar Am Number 1 2 3 4 5 6 7 8	ry: Sample Avg. Vel. (f/sec) 1434.7 1429.2 1425.1 1438.3 1428.2 1428.4 1433.65	Perfor Maximur .357 f Front Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Mag Anel BFS (mm) 32.0 33.0 33.0 33.0	: 36.0 <u>15</u> Size: Note 9 9 2	(Pass) mm 8/JSP C-5 Avg. Vel. (ft/sec) 1445.0 1427.2 1451.4 1452.3 1452.3 1452.3 1431.7 (Pass)	(Pass - 1 Refer Back P Yerf (Y=1/N=0 0 0 0 0 0 0 0 0	Threat 2 ence Ve Shot-to Panel BFS (mm) 29.0 37.0 35.0	greate - New elocity: -Edge: Note	Armor 1430 3 Sample Avg. Vel. (ft/sec) 1424.9 1425.9 1439.7 1432.6 1425.5 1416.7	k1: <u>+ 30 ft/s</u> inches 6 Front Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	1.568 mel BFS (mm) 30.0 34.0 31.0	V Size: Note 9 9	St. Dev.: Vater Sub C-5 Avg. Vel. (ft/sec) 1422.4 1407.1 1423.2 1432.2 1432.2 1446.9 1429.2 Average	: 3.08 mersion: Back P Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mm Yes anel BFS (mm) 30.0 34.0 28.0	
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Vel (ft/sec) 1421.4 142.4 142.9 1429.2 144.9 1429.2 142.9 1429.2 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.8 142.9 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.9 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.	: 3.08 mersion: Back P Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	mm Yes anel BFS (mm) 30.0 34.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28	Note
7 8 Summar Am Shot Number 1 2 3 4 5 6 7 8 Summa Shot Number 1 2 3 4 5 6 7 7 8 Summar	ry: Sample Avg. Vel. (tt/sec) 1434.7 1429.2 1425.1 1438.3 1428.2 1428.2 1423.4 1433.65 ry: Sample Avg. Vel. (tt/sec) 1443.3 1453.0 1425.3 1443.3 1453.0 1425.3 1443.7 1429.2 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1	Perfor Maximur 	Mag Mag anel BFS (mm) 32.0 33.0 33.0 33.0 anel BFS (mm) 34.0 35.0 anel BFS (mm) 35.0 anel BFS	36.0 15 Size: Note 9 9 9 2 37.0 Size: Note 9 9 3 37.0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: Size: Size: Size: Size: Size: Size: Size: Size: Size: Size: Size: Siz	(Pass) mm 8/JSP C-5 Avg. 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(tt/sec) 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7 1452.7	(Pass - 1 Refer Back P Perf (Y=1/N=0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Threat 2 ence Ve Shot-to Panel BFS (mm) 29.0 37.0 35.0 35.0 No BFS Panel BFS 0) (mm) 34.0 36.0	greate - New - New - Edge: - Edge: 	Armor 1430 3 Sample Avg. Vel. (ff/sec) 1424.9 1425.9 1439.7 1432.6 1425.5 1416.7 Statistics or then 44 Sample Avg. Vel (ff/sec) 141.2 1425.5 1416.7 Statistics or then 44 Avg. Vel (ff/sec) 141.2 1425.5 1416.7 Statistics of then 44 Avg. Vel (ff/sec) 1425.9 1425.9 1425.9 1425.9 1425.6 1425.7 1425.8 1425.9 1425.6 1431.9 1431.6 1431.9	k1: mm) <u>+ 30 ft/s</u> inches 6 Front Pa Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	1.568 Inel BFS (mm) 30.0 31.0 12 1.568 BFS (mm) 31.0 31.0 31.0 31.0 31.0 31.0 31.0 31.0 31.0 35.0 31.0 35.0 31.0 35.0 31.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35.0 35	_ V Size: Note g g 3 Size Note g g	St. Dev.: Vater Sub C-5 Avg. Vel. (ft/sec) 1422.4 1407.1 1423.2 1442.9 1429.2 Average St. Dev. C-1 Avg. Vel (ft/sec) 1421.8 1444.4 1422.2 1442.9 1458.3 1422.8 Average Average	: 3.08 mersion: Back P Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	mm Yes anel BFS (mm) 30.0 34.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28	Note
7 8 Summan Ami Shot 1 2 3 4 5 6 7 8 Summa Shot Number 1 2 3 4 5 6 7 8 Summa	ry: Sample Avg. Vel. (tt/sec) 1434.7 1429.2 1425.1 1438.3 1428.2 1428.2 1423.4 1433.65 ry: Sample Avg. Vel. (tt/sec) 1443.3 1453.0 1425.3 1443.3 1453.0 1425.3 1443.7 1429.2 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1439.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1457.7 1	Perfor Maximur 5 Front Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Mag Mag anel BFS (mm) 32.0 33.0 33.0 33.0 anel BFS (mm) 34.0 35.0 anel BFS (mm) 35.0 anel BFS	36.0 15 Size: Note 9 9 9 2 37.0 Size: Note 9 9 3 37.0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: 0 Size: Size: Size: Size: Size: Size: Size: Size: Size: Size: Size: Size: Siz	(Pass) mm 8/JSP C-5 Avg. Vel. (ft/sec) 1445.0 1445.0 1445.2 1451.4 1452.3 1452.3 1452.3 1431.7 (Pass) mm C-1 Avg. Vel. (ft/sec) 1452.3 1431.7 1432.6 1433.2 1425.3 1411.0 1441.4	(Pass - 1 Refer Back P Perf (Y=1/N=0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Threat 2 ence Ve Shot-to Panel BFS) (mm) 29.0 37.0 35.0 No BFS Panel BFS 0) (mm) 34.0 36.0 33.0	greate - New elocity: -Edge: Note BFS greate Note	Armor 1430 3 Sample Avg. Vel. (ff/sec) 1424.9 1425.9 1439.7 1432.6 1425.5 1416.7 Statistics r then 44 Sample Avg. Vel (ff/sec) 141.2 1425.5 1416.7 Statistics r then 44 Avg. Vel (ff/sec) 1412.2 1425.3 1455.3 1455.3 1455.3 1455.3 1455.3 1455.3 1455.3 1455.3 1455.3 5 5 5	k1: mm) <u>+ 30 ft/s</u> inches 6 Front Pa Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	1.568 Innel BFS (mm) 30.0 31.0 12 1.568 (mm) 33.0 31.0 12 1.568	y g g s <u>Size</u> Note g g g	St. Dev.: Vater Sut C-5 Avg. Vel. (ft/sec) 1422.4 1407.1 1423.2 1442.9 1429.2 1446.9 1429.2 Average St. Dev. C-1 Avg. Vel (ft/sec) 1421.4 142.4 142.9 1429.2 144.9 1429.2 142.9 1429.2 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.8 142.9 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.9 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.8 142.	: 3.08 mersion: Back P Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	mm Yes anel BFS (mm) 30.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0 2	Note

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Administration Reputation.

Diversion contrary to U.S. law is prohibited. BAE Systems

Perforation and BFS Summary Data

						rforatior		<u></u>	Jannina	y Data						
	Number:			SAF09-001662 Model Designation: BA-2000S-XT01F						Report Date: 05/20/10						
Manu	facturer:		Safarila	ind, LLC)	Model	Design	ation:	BA-2000	S-XT01F			1	NJ Armor	Type:	2
						Threa	t 1 - Co	nditio	ned Armo	or						
Amm	nunition:	9mr	n	12	4/FMJ	Т	est Ve	locity:	1245	± 30 ft/s		w	later Sub	mersion:	No	
							hot-to-			inches						
	Sample	21		Size:	C-5				Sample	22		Size:	C-1			
[Front Pa	nel			Back Pa	nel			Front Pa	nel			Back Pa	nel	
Shot	Avg. Vel.	Perf	BFS		Avg. Vel.	Perf	8FS		Avg. Vel.	Perf	BFS		Avg. Vel.	Perf	BFS	
Number	(ft/sec)	(Y=1/N=0)		Note	(ft/sec)	(Y=1/N=0)	(mm)	Note	(ft/sec)	(Y=1/N=0)	(mm)	Note	(ft/sec)	(Y=1/N=0)		Note
1	1221.4	0	0.80		1229,3	0	08.0		1268.2	0	30.0		1259.2	0	36-0	
2	1229.1	0	28 Q		1249.1	0	33 w		1258.3	0	31.0		1270.5	0	29 Q	
3	1224.6	0	53.6		1273.2	0	510		1269.9	0	30° e		1225.1	0	25-0	
4	1228.3	0		g	1259.6	0			1251.0	0		g	1276,7	0		
5	1246.7	0		g	1274.4	0			1264.5	0		g	1242.6	0		
6	1219.6	0			1270.5	0			1260.0	0			1279.5	0		
7																
8			and an address of the local diversion of the local diversion of the local diversion of the local diversion of the			a se su									e posisione de la seconda d	a demonstrating Cons
ummary	y:		ations:		(Pass)					Perfor			(Pass)			
		Maxamue	a BES	33.0	- 6166 (60 I	ефиканск	d j			Maximun	1868	32.0	100) (001	oqunamer	R.	
Amm	nunition:	.357 N	Mag	15	8/JSP				ned Armo 1340	or ± 30 ft/s		, v	/ater Sub	mersion:	No	
			Mag			1		locity:	<u>1340</u> 3	± 30 ft/s inches		-		mersion:	No	
	nunition: Sample	23		15 Size:		- S	fest Ve ihot-to	locity:	1340	± 30 ft/s inches 24		Size:				
·	Sample	23 Front Pa	anel		C-5	Back Pa	fest Ve hot-to	locity:	1340 3 Sample	± 30 ft/s inches 24 Front Pa		-	C-1	Back Pa	inel	-
Shot	Sample Avg. Vei.	23 Front Pa Perf	anel BFS	Size:	C-5 Avg. Vei.	Back Pa	nel BFS	locity: Edge:	1340 3 Sample Avg. Vel.	± 30 ft/s inches 24 Front Pa Perf	BFS	Size:	C-1 Avg. Vel.	Back Pa Perf	nel BFS	Note
Shot Number	Sample Avg. Vel. (ft/sec)	23 Front Pa Perf (Y=1/N=0)	anel BFS (mm)	Size:	C-5 Avg. Vei. (ft/sec)	Back Pa Perf (Y=1/N=0)	rest Ve ihot-to nel BFS (mm)	locity:	1340 3 Sample Avg. Vel. (ft/sec)	± 30 ft/s inches 24 Front Pa Perf (Y=1/N=0)	BFS (mm)	-	C-1 Avg. Vel. (ft/sec)	Back Pa Perf (Y=1/N=0)	inel BFS (mm)	Note
Shot Number 1	Sample Avg. Vel. (ft/sec) 1328.5	23 Front Pa Perf (Y=1/N=0) 0	anel BFS (mm) 28 0	Size: Note	C-5 Avg. Vel. (ft/sec) 1341.2	Back Pa Perf (Y=1/N=0) 0	rest Ve ihot-to inel BFS (mm) 33 0	locity: Edge:	1340 3 Sample Avg. Vel. (ft/sec) 1340.3	± 30 ft/s inches 24 Front Pa Perf (Y=1/N=0) 0	BFS (mm) 32.0	Size:	C-1 Avg. Vel. (ft/sec) 1355.1	Back Pa Perf (Y=1/N=0) 0	nnel BFS (mm) 31.0	Note
Shot Number 1 2	Sample Avg. Vel. (ft/sec) 1328.5 1323.3	23 Front Pa Perf (Y=1/N=0) 0 0	anel BFS (mm) 22:0 33.0	Size: Note	C-5 Avg. Vel. (ft/sec) 1341.2 1351.9	Back Pa Perf (Y=1/N=0) 0 0	nel BFS (mm) 33.0	locity: Edge:	1340 3 Sample Avg. Vel. (ft/sec) 1340.3 1344.2	± 30 ft/s inches 24 Front Pa Perf (Y=1/N=0) 0 0	BFS (mm) 32.0 34.6	Size:	C-1 Avg. Vel. (ft/sec) 1355.1 1349.9	Back Pa Perf (Y=1/N=0)	mel BFS (mm) 31 0 34 0	Note
Shot <u>Number</u> 1 2 3	Sample Avg. Vel. (ft/sec) 1328.5 1323.3 1342.9	23 Front Pa Perf (Y=1/N=0) 0 0 0	anel BFS (mm) 28 0	Size: Note	C-5 Avg. Vel. (ft/sec) 1341.2 1351.9 1350.3	Back Pa Perf (Y=1/N=0) 0	rest Ve ihot-to inel BFS (mm) 33 0	locity: Edge:	1340 3 Sample Avg. Vel. (ft/sec) 1340.3 1344.2 1376.4	± 30 ft/s inches 24 Front Pa Perf (Y=1/N=0) 0 0 0	BFS (mm) 32.0	Size: Note	C-1 Avg. Vel. (ft/sec) 1355.1 1349.9 1356.4	Back Pa Perf (Y=1/N=0) 0 0	nnel BFS (mm) 31.0	Note
Shot <u>Number</u> 1 2 3 4	Sample Avg. Vel. (ft/sec) 1328.5 1323.3 1342.9 1350.6	23 Front Pa Perf (Y=1/N=0) 0 0	anel BFS (mm) 22:0 33.0	Size: Note	C-5 Avg. Vel. (ft/sec) 1341.2 1351.9	Back Pa Perf (Y=1/N=0) 0 0 0	nel BFS (mm) 33.0	locity: Edge:	1340 3 Sample Avg. Vel. (ft/sec) 1340.3 1344.2	± 30 ft/s inches 24 Front Pa Perf (Y=1/N=0) 0 0	BFS (mm) 32.0 34.6	Size:	C-1 Avg. Vel. (ft/sec) 1355.1 1349.9	Back Pa Perf (Y=1/N=0) 0 0 0	mel BFS (mm) 31 0 34 0	Note
Shot <u>Number</u> 1 2 3	Sample Avg. Vel. (ft/sec) 1328.5 1323.3 1342.9	23 Front Pa Perf (Y=1/N=0) 0 0 0 0	anel BFS (mm) 22:0 33.0	Size: Note	C-5 Avg. Vei. (ft/sec) 1341.2 1351.9 1350.3 1356.9	Back Pa Perf (Y=1/N=0) 0 0 0 0	nel BFS (mm) 33.0	locity: Edge:	1340 3 Sample Avg. Vel. (ft/sec) 1340.3 1344.2 1376.4 1358.1	± 30 ft/s inches 24 Front Pa Perf (Y=1/N=0) 0 0 0 0	BFS (mm) 32.0 34.6	Size: Note	C-1 Avg. Vel. (ft/sec) 1355.1 1349.9 1356.4 1346.9	Back Pa Perf (Y=1/N=0) 0 0 0 0	mel BFS (mm) 31 0 34 0	Note
Shot <u>Number</u> 1 2 3 4 5	Sample Avg. Vel. (ft/sec) 1328.5 1323.3 1342.9 1350.6 1349.3	23 Front Pa Perf (Y=1/N=0) 0 0 0 0 0 0	anel BFS (mm) 22:0 33.0	Size: Note	C-5 Avg. Vei. (ft/sec) 1341.2 1351.9 1350.3 1356.9 1351.5	Back Parf (Y=1/N=0) 0 0 0 0 0 0 0	nel BFS (mm) 33.0	locity: Edge:	1340 3 Sample Avg. Vel. (ft/sec) 1340.3 1344.2 1376.4 1358.1 1352.3	± 30 ft/s inches 24 Front Par (Y=1/N=0) 0 0 0 0 0 0	BFS (mm) 32.0 34.6	Size: Note	C-1 Avg. Vel. (ft/sec) 1355.1 1349.9 1356.4 1346.9 1337.0	Back Pa Perf (Y=1/N=0) 0 0 0 0 0	mel BFS (mm) 31 0 34 0	Note
Shot Number 1 2 3 4 5 6	Sample Avg. Vel. (ft/sec) 1328.5 1323.3 1342.9 1350.6 1349.3 1355.8	23 Front Pa Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0	anel BFS (mm) 22:0 33.0	Size: Note	C-5 Avg. Vei. (ft/sec) 1341.2 1351.9 1350.3 1356.9 1351.5	Back Parf (Y=1/N=0) 0 0 0 0 0 0 0	nel BFS (mm) 33.0	locity: Edge:	1340 3 Sample Avg. Vel. (ft/sec) 1340.3 1344.2 1376.4 1358.1 1352.3 1354.0	± 30 ft/s inches 24 Front Par (Y=1/N=0) 0 0 0 0 0 0 0 0 0	BFS (mm) 32.0 34.6	Size: Note	C-1 Avg. Vel. (ft/sec) 1355.1 1349.9 1356.4 1346.9 1337.0	Back Pa Perf (Y=1/N=0) 0 0 0 0 0	mel BFS (mm) 31 0 34 0	Note
Shot Number 1 2 3 4 5 6 7 8	Sample Avg. Vel. (ft/sec) 1328.5 1323.3 1342.9 1350.6 1349.3 1355.8 1367.16	23 Front Pa Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 22:0 33.0	Size: Note g g	C-5 Avg. Vei. (ft/sec) 1341.2 1351.9 1350.3 1356.9 1351.5	Back Parf (Y=1/N=0) 0 0 0 0 0 0 0	nel BFS (mm) 33.0	locity: Edge:	1340 3 Sample Avg. Vel. (ft/sec) 1340.3 1344.2 1376.4 1358.1 1352.3 1354.0	± 30 ft/s inches 24 Front Pæ Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	BFS (mm) 32.0 34.6	Size: Note g g	C-1 Avg. Vel. (ft/sec) 1355.1 1349.9 1356.4 1346.9 1337.0 1353.6 (Pass)	Back Pa Perf (Y=1/N=0) 0 0 0 0 0 0 0	BFS (mm) 31-0 34-0 75-0	Note
Shot Number 1 2 3 4 5 6 7	Sample Avg. Vel. (ft/sec) 1328.5 1323.3 1342.9 1350.6 1349.3 1355.8 1367.16	23 Front Pa Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 22:0 35:0 31:0	Size: Note g g : 0	C-5 Avg. Vel. (ft/sec) 1341.2 1351.9 1350.3 1356.9 1351.5 1315.0 (Pass)	Back Parf (Y=1/N=0) 0 0 0 0 0 0 0	est Ve hot-to mel BFS (mm) 33.0 33.0 33.0 33.0 33.0 33.0	locity: Edge:	1340 3 Sample Avg. Vel. (ft/sec) 1340.3 1344.2 1376.4 1358.1 1352.3 1354.0	± 30 ft/s inches 24 Front Pæ Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	BFS (mm) 32.0 24.0 30.0	Size: Note g g	C-1 Avg. Vel. (ft/sec) 1355.1 1349.9 1356.4 1346.9 1337.0 1353.6 (Pass)	Back Pa Perf (Y=1/N=0) 0 0 0 0 0	BFS (mm) 31-0 34-0 75-0	Note
Shot Number 1 2 3 4 5 6 7 8	Sample Avg. Vel. (ft/sec) 1328.5 1323.3 1342.9 1350.6 1349.3 1355.8 1367.16	23 Front Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 22:0 35:0 31:0	Size: Note g g : 0	C-5 Avg. Vel. (ft/sec) 1341.2 1351.9 1350.3 1356.9 1351.5 1315.0 (Pass)	Back Par Perf (Y=1/N=0) 0 0 0 0 0 0 0	inel BFS (mm) 33 δ 33 c 34 c 34 c	Note	1340 3 Sample (ft/sec) 1340.2 1340.2 1376.4 1358.1 1352.3 1354.0 1338.1	± 30 ft/s inches 24 Front Pæ Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BFS (mm) 32.0 24.0 30.0	Size: Note g g	C-1 Avg. Vel. (ft/sec) 1355.1 1349.9 1356.4 1346.9 1337.0 1353.6 (Pass)	Back Pa Perf (Y=1/N=0) 0 0 0 0 0 0 0	BFS (mm) 31-0 34-0 75-0	Note
Shot Number 1 2 3 4 5 6 7 8	Sample Avg. Vel. (fUsec) 1328.5 1323.3 1342.9 1350.6 1349.3 1355.8 1367.16 y:	23 Front Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 22:0 33:0 31:0 attions: 5:1 BFS	Size: Note g g : 0 3& 0	C-5 Avg. Vel. (ft/sec) 1341.2 1351.9 1350.3 1356.9 1351.5 1315.0 (Pass) mm (no	- 1 S Back Pa Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	inel BFS (mm) 33 8 33 0 34 0 34 0 34 0 34 0 34 0 34 0 34 0	Note	1340 3 Sample Avg. Vet. (ft/sec) 1340.3 1344.2 1376.4 1358.3 1354.0 1338.1	± 30 ft/s inches 24 Front Pa Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BFS (mm) 32 0 24 6 30 0 30 0	Size: Note g g	C-1 Avg. Vel. (ft/sec) 1355.1 1349.9 1356.4 1346.9 1337.0 1353.6 (Pass)	Back Pa Perf (Y=1/N=0) 0 0 0 0 0 0 0	BFS (mm) 31-0 34-0 75-0	Note
Shot Number 1 2 3 4 5 6 7 8	Sample Avg. Vel. (fUsec) 1328.5 1323.3 1342.9 1350.6 1349.3 1355.8 1367.16 y:	23 Front Pa Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 22:0 25:0 31:0 31:0 rations: 5:0 BFS	Size: Note g g : 0 38.0	C-5 Avg. Vel. (ft/sec) 1341.2 1351.9 1350.3 1356.9 1351.5 1315.0 (Pass) mm (no	- 1 S Back Pa Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	rest Ve hot-to hot-to BFS (mm) 33 C 33 C 31 O 10 10 10	BFS S	1340 3 Sample Avg. Vel. (ft/sec) 1340.3 1344.2 1376.4 1358.1 1352.3 1354.0 1338.1 1338.1 	± 30 ft/s inches 24 Front Pæ Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BFS (mm) 32 0 24 6 30 0 30 0 ations: n BFS oned	Size: Note 9 9 0 34,0	C-1 (ft/sec) 1355.1 1349.9 1356.4 1346.9 1337.0 1353.6 (Pass) net (no	Back Pa Pert (Y=1/N=0) 0 0 0 0 0 0	mel BFS (mm) 31.0 34.0 75.0	Note

Backface Signature: <u>This requirement is for New armors only</u> Maximum BFS: 37.0 mm

This armor model meets the BFS performance requirements of NIJ Standard-0101.06 Section 7.8.8 Item a.

Compliance Test Report revision 4 (2009-08-02) / R version 2.7.1 (2008-06-23) / MS Excel version 11.0 / Operating System version Windows (32-bit) NT 5.01

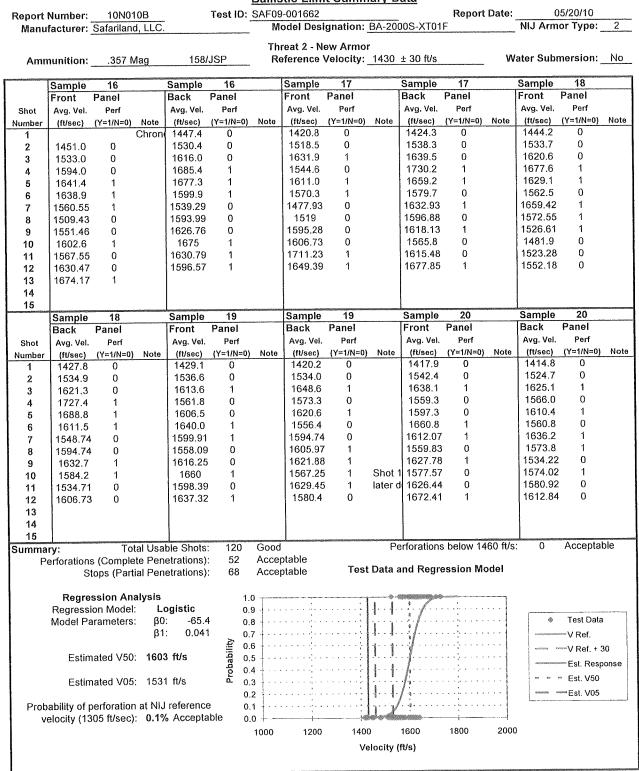
EXPORTATION CONTRACTOR STATES These commodules, but notices, or contractor consulted for export in accordance with its table imposi-Administration Regulation. Diversion contrary to U.S. law is prohibited. BAE Systems

Ballistic Limit Summary Data Test ID: SAF09-001662 Report Date: 05/20/10 **Report Number:** 10N010B Model Designation: BA-2000S-XT01F NIJ Armor Type: 2 Manufacturer: Safariland, LLC. Threat 1 - New Armor Reference Velocity: 1305 ± 30 ft/s Water Submersion: No Ammunition: 9mm 124/FMJ Sample 11 Sample 11 Sample 12 Sample 12 Sample 13 Panel Panel Back Panel Front Panel Front Front Panel Back Avg. Vel. Avg. Vel. Avg, Vel. Perf Shot Avg. Vel. Perf Avg, Vel. Perf Perf Perf (ft/sec) (ft/sec) (Y=1/N=0) Note (ft/sec) (Y=1/N=0) Note (ft/sec) (Y=1/N=0) Note (Y=1/N=0) Note Number (ft/sec) (Y=1/N=0) Note 1295.2 1293.0 1286.4 1356.4 0 1303.2 0 0 0 0 1 1417.3 0 1448.4 0 1407.8 0 1420.1 0 1429.3 0 2 1527.5 0 1530.8 0 1529.6 0 1535.4 0 1521.1 0 3 1624.7 1625.3 1622.6 1634.2 1 0 1 0 1613.6 0 4 1700.8 1712.1 1551.8 n 5 1732.8 0 1545.3 0 1 1 1664.4 1588.7 0 1648.4 6 1777.1 1 1602.2 0 1 1 1576.79 1630.42 1547.48 0 0 0 7 1719.76 0 1662.41 1 1632.33 1695.18 1618.63 0 1778 1607.23 0 0 1 8 1 1668.13 0 1682.68 1 1630.19 0 1666.72 1 9 1738.02 1 1689.03 1635.59 1 1698.09 1 1611.16 0 10 1673.54 1 1 1564.94 0 1644.66 1654.63 0 1638.87 0 1651 29 0 1 11 1584.69 0 1704.92 12 1693.98 0 1705.17 1 1630.19 0 1 13 14 15 Sample 15 13 Sample 14 Sample 14 Sample 15 Sample Panel Back Panel Front Panel Back Panel Panel Back Front Avg, Vel. Perf Avg. Vel. Perf Avg. Vel. Perf Avg. Vel. Perf Avg. Vel. Perf Shot (Y=1/N=0) Note (ft/sec) (Y=1/N=0) Note (ft/sec) (Y=1/N=0) Note (ft/sec) (Y=1/N=0) (ft/sec) Number (ft/sec) (Y=1/N=0) Note Note 1305.4 1288.6 1302.9 1310.6 1294.9 0 0 0 0 0 1 1421.8 0 1433.9 0 1423.2 0 1428.6 0 1435.7 0 2 1526.3 0 1527.5 1541.4 0 3 1546.5 0 1517.3 0 0 1639.7 1615.4 1628.0 1 1620.5 1618.6 0 1 1 4 0 1553.6 0 1547.5 0 1569.7 1 5 1714.4 1 1709.1 1 1649.9 1610.4 0 1605.4 1 1471.9 0 6 1653.5 1 1 1558.98 1644.89 0 1551.84 0 0 1572.51 1 7 1582.37 0 1598.57 1590.32 0 8 1620.19 0 1488.84 0 1694.83 0 0 1658.23 0 1648.21 1 1552.85 0 1744.54 1 9 1674.61 1 1587.23 1711.44 0 1703.09 10 1623.4 1 1598.57 0 1 1 1660.44 0 1648.77 0 1657.89 0 1633.45 0 1560.72 0 11 1690.72 0 1702.48 1689.98 0 1 12 1644.09 0 1701.02 0 13 14 15 Perforations below 1335 ft/s: Acceptable 0 Acceptable Total Usable Shots: 120 Summary: Perforations (Complete Penetrations): Acceptable 37 **Test Data and Regression Model** Stops (Partial Penetrations): 83 Good **Regression Analysis** 1.0 Logistic **Regression Model:** 0.9 -39.7 Model Parameters: B0: Test Data 0.8 ¢ β1: 0.024 0.7 V Ref. Probability 0,6 ----- V Ref. + 30 Estimated V50: 1661 ft/s 0,5 Est, Response 0.4 a Est. V50 Estimated V05: 1538 ft/s 0.3 ----- Est. V05 0.2 Probability of perforation at NIJ reference 0.1 velocity (1305 ft/sec): 0.0% Acceptable 0.0 2000 1000 1200 1400 1600 1800 Velocity (ft/s)

EXPLORT CONTROL Left (1) 115These commonStress test make is in a consulted
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Page 1 of 3

Ballistic Limit Summary Data



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Ballistic Limit Summary Data

Report	Number:	10N01	0B		Test ID:		-001662	and a second second		Report	Date:)5/20/10	
Manu	facturer:	Safariland	I, LLC.			M	odel Designation:	BA-20	00S-XT01	F		NIJ Arm	or Type:	2
	nunition:	eat 1 - Co 9mn 1245	n	124/	'FMJ	No			Th munition: Velocity:	reat 2 - C .357 N 1340		158/	ior /JSP Wet:	No
Shot Number 1 2 3 4 5 6 7 8 9 10 11 12 13 14	Sample Front Avg. Vel. (ft/sec) 1216.2 1331.7 1424.3 1466.6 1617.0 1703.6 1623.77 1694.62 1676.32 1619.13 1665.6 1704	1	Note	Sample Back Avg. Vel. (ft/sec) 1228.5 1327.6 1402.3 1556.3 1624.2 1487.0 1598.08 1573.5 1592.08 1539.7 1623.21 1636.2	25 Panel Perf (Y=1/N=0) 0 0 0 0 1 0 0 1 0 0 0 0 0 1	Shot n	o. 9 initially determ etermined to be a s	Shot Num 1 2 3 4 5 6 7 8 9 10 11 12 13 14	Sample Front Avg. Vel. (ft/sec) 1351.4 1455.3 1563.0 1621.3 1544.3 1580.6 1505.03 1581.36 1586.22 1563.23 1618.9 1642.44	26 Panel Perf (Y=1/N=0) 0 0 1 0 1 0 0 1 0 0 1 0 0 0 0 0	Note	Sample Back Avg. Vel. (ft/sec) 1357.5 1452.7 1381.2 1427.6 1486.1 1539.0 1546.73 1596.79 1624.55 1613.61 1547.23 1565.5	0 1 1	Note
15 Summai	Tol P erforations Regre s Regressi	al Usable erforations Stop below 12 ssion Ana on Model: irameters:	s (CP): s (PP): 75 ft/s: l lysis Lc	; 7 ; 17 ; 0 ; 63.5				15 Sumr	P erforations Regr e Regressi	,	s (CP): s (PP): 70 ft/s nalysis Lo	: 6 : 18 : 0 • • • • • • • • • • • • • • • • • • •		
Ρ			or moo	del meets	: 0 the low p P-BFS refe I: 0.0%) <u>This</u> erforati erence	Ballistic Limit Su requirement is for on velocity perform velocity This req	all Ball ance r	listic Limit equiremer	nts of NIJ :	Standa	New and rd-0101.0	Condition 6 Section	i <u>ed</u> 7.9.8

Compliance Test Report revision 4 (2009-08-02) / R version 2.7.1 (2008-06-23) / MS Excel version 11.0 / Operating System version Windows (32-bit) NT 5.01

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Date Received:10/28/10Via:Fed ExReturned Via:UPS

Test Conditions

10 ⁻¹		0.7
Temperature:	71	°F.
Humidity:	39	%
Clay Block No .:	7	
Clay Temp.:	98	°F.
Drops (Avg.):	19.5	mm
Test Spec.:	Modified/A	bbreviated NIJ 0101.06
Threat Level:	Special Th	nreat
Condition:	New	

Record No.: BAE102154 Test Date: 11/03/10 Customer: BAE Systems

Range 2	
Muzzle to Scr. 1:	5.46 ft.
Screen 1 - 2:	5.73 ft.
Screen 2 - Target:	5,50 ft.
Midpoint to Target:	8.37 ft.
Target to Witness:	0 ft.
Barrel Length:	4 in.
Clay Block:	5.5 in.

Samj	ole/Test Descr	iption			Ammuniti	on Descrip	tion	Chrone	Results	
Sample	Sample	Wet	0-45 Deg.	Shot	Shot	Caliber	Bullet	TIME	VELOCITY	Perforation
Size	Weight (lbs.)	Dry	Angle	No.	Location		Wt./Type	sx-5	fps	BFS (mm)
Front	1.77	Wet	0	1	1	40	165 SXT	501.9	1141	28.48
Front	1.77	Wel	0	2	2	40	165 SXT	505.8	1132	34.14
Front	1.77	Wet	0	3	3	40	165 SXT	502.0	1141	36.43
Front	1.77	Wet	45	4	4	40	165 SXT	508.3	1127	No Perforation
Front	1.77	Wet	30	5	5	40	165 SXT	508.7	1126	No Perforation
Front	1.77	Wet	0	6	6	40	165 SXT	505.3	1134	No Perforation
									-	
Back	1.51	Wet	0	1	1	40	165 SXT	505.9	1132	27.42
Back	1.51	Wet	0	2	2	40	165 SXT	499.5	1147	30.61
Back	1.51	Wet	0	3	3	40	165 SXT	502.4	1140	31.85
Back	1.51	Wet	30	4	4	40	165 SXT	510.3	1122	No Perforation
Back	1.51	Wet	45	5	5	40	165 SXT	504.9	1134	No Perforation
Back	1.51	Wet	0	6	6	40	165 SXT	519.3	1103	No Perforation
							}		-	
									-	
									-	
					1				-	
,	performed in ac				1	es Test Lab	oratory		2-1600	Phone
	equirements and				7447 W. 33			316-83	2-1602	Fax
flect the ball	istic performanc	e of the l	isted samp	e.	Wichita, KS	67205	U.S.A.			

REMARKS/NOTES: Shot location marking per NIJ 0101.06, Section 7.8.1.

Shot-to-edge distance: 2.25"

Sample Tested:

Manufacturer: BAE Model No.: BA-2000S-XT01F Panel Side: Front/Back Size: B363675C/363613C DoM: Sep-10 Serial No.: 10180845/10180848 Lot No.: 021936 Threat Level: Special Threat

Sample Description:

Front

Vest: Layers 1-2, 31: Flex woven aramid fiber (2-ply laminated, 20x20). Layers 3-30: Smooth flex aramid film. Bust Cup: Layers 1-2: Flex woven aramid fiber (2-ply laminated, 20x20). Layers 3-30: Smooth flex aramid film. Layer 31: Flex woven aramid fiber (2-ply lamintated, 20x20).

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Back

Layers 1-2, 31: Flex woven aramid fiber (2-ply laminated, 20x20). Layers 3-30: Smooth flex aramid film.

Barrett/Childers

Date Received: 10/28/10 Via: Fed Ex Returned Via: UPS

Test Conditions

Temperature:	73	°F.
Humidity:	33	%
Clay Block No.:	9	
Clay Temp.:	98	°F,
Drops (Avg.):	18.4	mm
Test Spec.:	Modified/A	bbreviated NIJ 0101.06
Threat Level:	Special Th	reat
Condition:	New	

Record No.: BAE102157 Test Date: 11/03/10 Customer: BAE Systems

Range 2	
Muzzle to Scr. 1:	5.46 ft.
Screen 1 - 2:	5,73 ft.
Screen 2 - Target:	5.50 ft.
Midpoint to Target:	8.37 ft.
Target to Witness:	O ft.
Barrel Length:	4 in.
Clay Block:	5.5 in.

Sample/Test Description		Ammunition Description			Chronograph		Results			
Sample	Sample	Wet	0-45 Deg.	Shot	Shot	Caliber	Bullet	TIME	VELOCITY	Perforation
Size	Weight (lbs.)	Dry	Angle	No.	Location		Wt./Type	sx-5	fps	BFS (mm)
Front	2.25	Wet	0	1	1	9mm	124 HST	452.7	1265	23.79
Front	2.25	Wet	0	2	2	9mm	124 HST	447.0	1281	31.33
Front	2.25	Wet	0	3	3	9mm	124 HST	455.8	1257	26.21
Front	2.25	Wet	30	4	4	9mm	124 HST	453.2	1264	No Perforation
Front	2.25	Wet	45	5	5	9mm	124 HST	457.6	1252	No Perforation
Front	2,25	Wet	0	6	6	9mm	124 HST	457.0	1253	No Perforation
									-	
Back	2,06	Wet	0	1	1	9mm	124 HST	456.1	1256	24.70
Back	2.06	Wet	0	2	2	9mm	124 HST	451.3	1269	26.35
Back	2.06	Wet	0	3	3	9mm	124 HST	453.8	1262	23.69
Back	2.06	Wet	45	4	4	9mm	124 HST	455.6	1257	No Perforation
Back	2.06	Wet	30	5	5	9mm	124 HST	456.4	1255	No Perforation
Back	2.06	Wet	0	6	6	9mm	124 HST	456.0	1256	No Perforation
									-	
									-	
									-	
This test was i	performed in ac	cordance	with the		United Stat	es Test La	boratory	316-83	32-1600	Phone
	specification requirements and the results properly			7447 W. 3		<i>`</i>	316-83	32-1602	Fax	
	istic performanc				Wichita, KS	67205	U.S.A.			
REMARKS/NG								-, -,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

Shot location marking per NIJ 0101.06, Section 7.8.1. Shot-to-edge distance: 2.25"

Sample Tested:

Manufacturer:BAEModel No.:BA-2000S-XT01FPanel Side:Front/BackSize:2D424067C/424016CDoM:Sep-10Serial No.:10180855/10180857Lot No.:021936Threat Level:Special Threat

Sample Description:

Front

Vest:

Layers 1-2, 31: Flex woven aramid fiber (2-ply laminated, 20x20). Layers 3-30: Smooth flex aramid film. Bust Cup:

Layers 1-2: Flex woven aramid fiber (2-ply laminated, 20x20).

Layers 3-30: Smooth flex aramid film.

Layer 31: Flex woven aramid fiber (2-ply lamintated, 20x20).

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Back

Layers 1-2, 31: Flex woven aramid fiber (2-ply laminated, 20x20). Layers 3-30: Smooth flex aramid film.

Barrett/Childers

Date Received:10/28/10Via:Fed ExReturned Via:UPS

Test Conditions

Temperature:	74	°F.
Humidity:	37	%
Clay Block No.:	9	
Clay Temp.:	97	°F.
Drops (Avg.):	18.7	mm
Test Spec.:	Modified/A	bbreviated NIJ 0101.06
Threat Level:	Special Th	reat
Condition:	New	

Record No.: BAE102159 Test Date: 11/03/10 Customer: BAE Systems

Range 2	
Muzzle to Scr. 1:	5.46 ft.
Screen 1 - 2:	5.73 ft.
Screen 2 - Target:	5.50 ft.
Midpoint to Target:	8.37 ft.
Target to Witness:	O ft.
Barrel Length:	4 in.
Clay Block:	5.5 in.

Conation:	New	mental and the second second second second			our out the second s	na da ante da ante de casa a como constructor con	tana ana amin'ny faritr'o amin'ny tanàna mandritry mandritry amin'ny tanàna mandritry mandritry mandritry mandr			
Sample/Test Description			Ammunition Description			Chronograph		Results		
Sample	Sample	Wet	0-45 Deg.	Shot	Shot	Caliber	Bullet	TIME	VELOCITY	Perforation
Size	Weight (lbs.)	Dry	Angle	No.	Location		Wt./Type	sx-5	íps	BFS (mm)
Front	2.24	Wet	0	1	1	357 Sig	125 GDHP	427.9	1339	25.45
Front	2.24	Wet	0	2	2	357 Sig	125 GDHP	422.5	1356	27.91
Front	2.24	Wet	0	3	3	357 Sig	125 GDHP	421.7	1358	29.46
Front	2,24	Wet	45	4	4	357 Sig	125 GDHP	426.5	1343	No Perforation
Front	2.24	Wet	30	5	5	357 Sig	125 GDHP	419,1	1367	No Perforation
Front	2.24	Wet	0	6	6	357 Sig	125 GDHP	431.8	1327	No Perforation
									~	
									-	
Back	2.06	Wet	0	1	1	357 Sig	125 GDHP	430.8	1330	25.51
Back	2.06	Wet	0	2	2	357 Sig	125 GDHP	428.7	1336	25.72
Back	2.06	Wet	0	3	3	357 Sig	125 GDHP	420.8	1361	26.75
Back	2.06	Wet	30	4	4	357 Sig	125 GDHP	421.2	1360	No Perforation
Back	2.06	Wet	45	5	5	357 Sig	125 GDHP	419.0	1367	No Perforation
Back	2.06	Wet	0	6	6	357 Sig	125 GDHP	415.4	1379	No Perforation
									-	
									-	
									-	
									-	
	his test was performed in accordance with the			United Sta	tes Test Lat	oratory	316-83	32-1600	Phone	
	equirements an			/	7447 W. 3			316-83	32-1602	Fax
	istic performanc				Wichita, K	S 67205	U.S.A.			

REMARKS/NOTES:

Shot location marking per NIJ 0101.06, Section 7.8.1. Shot-to-edge distance: 2.25"

Sample Tested:

Manufacturer:BAEModel No.:BA-2000S-XT01FPanel Side:Front/BackSize:2D424067C/424016CDoM:Sep-10Serial No.:10180856/10180858Lot No.:021936Threat Level:Special Threat

Sample Description:

Front

Vest:

Layers 1-2, 31: Flex woven aramid fiber (2-ply laminated, 20x20). Layers 3-30: Smooth flex aramid film.

Bust Cup:

Layers 1-2: Flex woven aramid fiber (2-ply laminated, 20x20).

Layers 3-30: Smooth flex aramid film.

Layer 31: Flex woven aramid fiber (2-ply lamintated, 20x20).

Barrett/Childers

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Back

Layers 1-2, 31: Flex woven aramid fiber (2-ply laminated, 20x20). Layers 3-30: Smooth flex aramid film.



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TECHNICAL SPECIFICATION Xtreme[®] Series – XT01 – Type IIIA

Test Standard	NIJ Standard: 0101.06	
Model	NIJ: BA-3A00S-XT01	
Threat Type	IIIA	
Configuration	Unstructured	
Armor Material	Twaron [®] Microlaminate, Gold Shield [®] GN-2117, Curv [®] Solid using High Strength Polypropylene Composite Material, with Advanced Perimeter Stitching	
Armor Panel Covering	2 ply, 70 Denier Nylon with Urethane Backing and Heat Sealed Edges	
Areal Density [lbs/ft ²]	1.24	
Thinness [inches] ASTM Standard D1777-97	0.240	
New V50 – .357 SIG FMJ FN 125 gr [ft/s]	1851	
Conditioned V50 – .357 SIG FMJ FN 125 gr [ft/s]	1855	
New V50 – .44 Mag JSP 240gr [ft/s]	1686	
Conditioned V50 – .44 Mag JSP 240gr [ft/s]	1668	
Backface Average – .357 SIG	28.47	
Backface Average – .44 Mag	37.25	
Additional Special Threats have been Tested at USTL i IAW Sec 7.8.2 unless otherwise specified.	n accordance with Modified/Abbreviated NIJ 0101.06 Standard	
Federal 9 mm 100Gr Frangible (BC9NT) - Test	ed Velocity 1100 fps ± 30 – No Perforations	
• Speer 357 Sig 125Gr. GDHP (23918) - Tested	Velocity 1375 fps ± 30 – No Perforations	

- Winchester 40 S&W 165Gr. SXT (RA40TA) Tested Velocity 1140 fps ± 30 No Perforations
- Tokarev Romanian 85Gr. FMJ -Tested Velocity 1530 fps ± 30 No Perforations

30 March 2011

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ABA Technical Specifications_XT01_Type IIIA_Rev.2

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- Winchester 9mm 127Gr SXT (RA9TA) Tested Velocity 1250 fps ± 30 No Perforations
- FN 5.7x28 SS195 L.F. IAW Section 7.8.1 Average Tested Velocity 2118fps No Perforations

SAFARILAND.



1. Scope:

The scope of this product specification provides information relating to the American Body Armor [®]Xtreme[®] Series XT01 (Type IIIA) Model (NIJ Model # BA-3A00S-XT01) that is compliant with National Institute of Justice (NIJ) Standard 0101.06 Ballistic Resistance of Personal Body Armor for Type IIIA classification and manufactured by Safariland[™].

2. Research & Development and Manufacturing:

The manufacturer (Safariland[™]) of the armor model, as listed on the NIJ's Compliant Product List (CPL), solely performs the research, development, and manufacturing capabilities described below. Other manufacturers of armor models listed on the CPL that have outsourced similar capabilities shall be deemed as inferior.

Capabilities	Internal	Out Sourced
Soft Armor Research and Development	X	
Hard Armor Research and Development	X	
Soft and Hard Armor Ballistic, Stab and Fragmentation Testing	X	
Soft and Hard Armor Non-Destructive and Destructive Testing	X	
Carrier Research and Development	Х	
Domestic Soft and Hard Armor Manufacturing Facilities	X	
Domestic and International Carrier Manufacturing Facilities	X	

3. Armor Design (Construction):

The American Body Armor® Xtreme® Series XT01 (Type IIIA) model has the following armor design characteristics:

Feature(s)	Definition(s)	Benefit(s)
Hybrid Technology	The use of multiple types of ballistic, stab, fragmentation and blunt trauma resistant materials in an armor design.	Provides the perfect balance between blunt trauma reduction and ballistic resistance against a wide array of bullets.
Woven Aramid-Teijin Twaron [®]	The use of Teijin Twaron [®] products made from Aramid fibers in various size yarns (dtex) that are woven together to form a fabric of material	Provides a high level of ballistic resistance with high impact properties, excellent thermal stability and chemical resistance. The addition of coatings and micro-laminates enhance the chemical and mechanical properties for durability in various conditions
Gold Shield [®] GN-2117 Unidirectional Aramid Fiber	Honeywell's latest addition to the Gold family of soft armor products. Gold Shield [®] GN-2117 combines Honeywell's patented Shield technology with aramid fiber. Gold Shield [®] GN-2117 is a ballistic product consisting of two plies of unidirectional aramid fiber, cross-plied at 0°/90°.	Gold Shield [®] GN-2117 provides strong protection against the NIJ .06 threats and alternate threats. It has excellent fragmentation protection as well as substantial reduction of blunt trauma in a ballistic event. Gold Shield [®] GN-2117 was designed for increased flexibility and comfort.
Curv [®] Solid Technology High Strength Polypropylene	The use of a solid piece of high strength polypropylene composite material sewn to ballistic materials within the armor design.	Provides a reinforced area across the entire armor panel for increased performance during edge shots and reduced blunt trauma. In addition, provides low impact movement and rapid impact recovery of the armor panel following a ballistic event.
Advanced Stitching (Single Perimeter)	The use of a single ballistic stitch pattern along the entire perimeter of the armor panel.	Provides a reinforced area along the perimeter of the armor panel for increased performance during edge shots.

30 March 2011

EXPORT CONTROLLED DATA.

ABA Bid Specifications_XT01_Type IIIA_REV.1

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3. Armor Design (Construction) – continued

Feature(s)	Definition(s)	Benefit(s)
Grip Loc [™] Integrated Suspension System	The use of adhesive tabs sewn to the armor panel that adheres to the interior of the cover material. In addition, Velcro [®] Hook Tabs are adhered to the exterior of the cover material for added support.	This provides an integrated suspension system that transfers the weight of the armor panel through the cover material and carrier to the shoulder straps. The suspension system prevents the armor panel from bunching at/on the bottom of the carrier and forming horizontal set wrinkles, therefore, increasing the life cycle of the ballistics and adding additional protection in a ballistic event.
Water resistant Cover with Heat Sealed Edges	The use of a Brookwood 70 Denier nylon blockade with TPU lamination system that has a hydrostatic resistance (ASTM-D 751) minimum of 120 pounds per square inch (PSI) to burst and breakaway adhesion (ASTM-D 5035) minimum of 25 pounds per inch (lbs/in). Armor panel has edges heat- sealed through a son bond process with a minimum of a .25" wide seal.	Provides a durable protective cover around the armor panels that resists environmental contaminate(s).

4. Armor Design (Ballistic Performance):

The American Body Armor[®] Xtreme[®] Series XT01 (Type IIIA) has the following performance characteristics as documented through a combination of NIJ Body Armor Compliance Testing Summary Reports, Independent NIJ Laboratory Testing Reports, and internal Safariland[™] Ballistic Laboratory Testing:

Feature(s)	Data
Areal Density (lbs per square foot)	1.24 (lbs ft ²)
Thinness (inches)	0.240 (in)
.357 SIG Estimated V-50 (New) (feet per second)	1851 (fps)
.357 SIG Estimated Velocity with 95 % Probability of Stop V-05 (New) (feet per second)	1762 (fps)
.357 SIG Probability of Perforation at P-BFS (New) (percentage)	0.00 (%)
.357 SIG Average Backface Signature (New) (millimeters)	28.47 (mm)
.44 Mag Estimated V50 (NEW) (feet per second)	1686 (fps)
.44 Mag Estimated Velocity of 95% Probability of Stop V-05 (NEW) (feet per second)	1560 (fps)
.44 Mag Probability of Perforation at P-BFS (NEW) (percentage)	0.2 (%)
.44 Mag Average Backface Signature (NEW) (millimeters)	37.25 (mm)
.357 SIG Estimated V-50 (conditioned) (feet per second)	1855 (fps)
.44 Mag Estimated V-50 (conditioned) (feet per second)	1668 (fps)
Independent NIJ Laboratory Special Threat Testing –	Winchester 9mm 127 Gr. SXT, Winchester .40
6 Shot Perforation – Backface Signature (P-BFS)	S&W 165 Gr SXT, Speer .357 Sig 125 Gr.
	GDHD, Tokarev Romanian 85 Gr. FMJ, Federal
	9mm 100 Gr. Frangible, FN 5.7x28 SS 195 L.F.

5. Availability:

The American Body Armor [®]Xtreme[®] Series XT01 (Type IIIA) model is available in accordance with the NIJ Compliance Product List (CPL) as follows:

Classification(s)	Current Status		
NIJ Template Size Availability	NIJ C-1 through NIJ C-5		
Gender Neutral Armor Model Design Availability	Yes		
Gender Specific Shape and Grade for Male(s) Availability	Yes		
Gender Specific Shape and Grade for Female(s) Availability	Yes		

6. Support Programs:

Classification(s)	Current Status	
Warranty	5 Years	
Quality Assurance Program(s)	ISO 9001 / Vest Check Program	
Safety Assurance Program(s)	OHSAS 18001	

Environmental Assurance Program(s)	ISO 14001
Liability Insurance	Information Available Upon Request

30 March 2011

EXPORT CONTROLLED DATA.

ABA Bid Specifications_XT01_Type IIIA_REV.1

These commodities, technology or software are controlled for export in accounce with the U.S. Export Administration Regulations. Diversion contrary to U.S. law is prohibited.





U.S. Department of Justice

Office of Justice Programs

National Institute of Justice

Washington, D.C. 20530

September 7, 2010

Scott O'Brien President Safariland, LLC 3120 East Mission Blvd Ontario, CA 91761

> Notice of Compliance with NIJ Standard–0101.06 Body Armor Model Designation: BA-3A00S-XT01 NIJ Compliance Status Expires: September 7, 2015

Dear Mr. O'Brien:

We have completed our evaluation of the body armor model identified above that was submitted to the National Institute of Justice's (NIJ's) Voluntary Body Armor Compliance Testing Program. We are pleased to inform you that the above body armor model satisfies the requirements of NIJ Standard–0101.06 and the Compliance Testing Program.

We also received your completed declaration concerning the model noted above and your agreement to participate in the conformity assessment follow-up process.

The body armor model details are listed on the NIJ Compliant Products List available at <u>www.justnet.org/CTP</u>.

You are now authorized to place the NIJ Statement of Compliance on the labels of this body armor model and all subsequent production units. The Statement of Compliance shall read:

"This model of armor has been determined to comply with NIJ Standard–0101.06 by the NIJ Compliance Testing Program and is listed on the NIJ Compliant Products List."

All compliance requirements, as identified by the *NIJ Body Armor Compliance Testing Program Administrative Manual* and the *Ballistic Body Armor Applicant Package*, must be maintained as long as the NIJ Statement of Compliance is displayed on this armor model's labels. If, at any time, the compliance status of this armor model is changed, the NIJ Statement of Compliance shall cease to be used as of the date of the status change.

Sincerely,

Jaha & Sho

Debra Stoe Physical Scientist National Institute of Justice

REMARKATION AND A STATES TO THE ADDRESS OF A STATES AND A STATES

					Per	foration	and I	BFS S	ummar	v Data						
Report Number:		XI				foration and BFS Summary Data SAF09-001697						Report Date: 07/26/10				
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Am <u>Shot</u> 1 2 3 4 5 6 7 8	munition: Sample Avg. Vel. (Usec) 1437 6 1430 6 1423 2 1445 2 1445 2 1430 2 1430 2 1433 9 ry: Sample Avg. Vel	44 N 5 Front P. Pert (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Mag anel BFS (mm 35 & 35 & 35 & 35 & 35 & 35 & 35 & 35 &	 31.2 241 Size Note Size Size Size 	2 mm 0/SJHP : C-5 Avg. Vel. (Ueec) 1425 7 1427 7 1436 1 1431 2 1446 9 1434 8 (Pass) 5 mm : C-1 Avg. Vel	T Refere Perf (Υ=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	hreat 2 ence Ve Shot-to anel BFS (mm) 37 4 41 5 36.3 No BFS No BFS Panel BFS	greater - New clocity: -Edgo: Note BFS greate	then 44 / Armor 1430 3 Sample Avg. Vol (tlace) 1431 2 1421 7 1428.3 1411.9 1420.9 1422.8 Statistics r then 44 Avg. Vel Avg. Vel A	k1 mm) <u>± 30 ft/s</u> inches 6 Front Part (Y=tiN=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	1.568 anel BFS (mm) 39.2 37.4 31.4 12 1.568 anel BFS	Size: Note Size	St Dev Vater Sult C-5 Avg. Vel. (th/sec] 14267 14331 1422.3 14281 1427.5 14238 Average St Dev. C-1 Avg. Vel	1 75 mersion: Back Part (Y=(IN=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	mm Yes anel BFS (mm) 36.3 32.1 39.4 39.4	Note
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Am Shot Number 1 2 3 4 5 6 7 8 Summa Shot Number 1 2 3 4 5 6 7 8 Summa	Munition: Sample Avg. Vel. (1437 & 1430.5 1437 & 1430.5 1423 2 1430.2 1430.2 1430.2 1433 9 ry: Sample Avg. Vel (fl/sec) 1422.8 1430.8 1433 - 1433 - 1430.2 1433 - 1433 -	44 N 5 Front P Pert (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	Mag anel BFS 35 2 35 2 35 2 35 2 35 2 35 2 35 2 35 2	 31 2 241 Size Note 3 8 41 9 Size 5 1) Note 	2 mm 0/SJHP ; C-5 Avg. Vol. (t/teec) 1425 7 1425 7 1427 7 1436 9 1434 8 (Pass) 5 mm ;; C-1 Avg. Vel (t/tec) 1425 7 1426 1 1431 2 1434 8 (Pass) 5 mm	T Reference (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	hreat 2 ence Ve Shot-to anel BFS (mm) 37 4 41 5 36.3 36.3 No BFS Panel BFS) (mm) 39 3 37 5	greater - New elocity: -Edgo: Note BFS greate Note	then 44 / Armor 1430 3 Sample Avg. Vol (tloac) 1431 2 1421 7 1428.3 1411.9 1420.9 1422.8 Statistics r then 44 Avg. Vel (tloac) 1421 7 1426.7 1431 7 1445 6 1431 7 1445 6 1439 2	k1 mm) ± 30 ft/s inches 6 Front P: Pert (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	1.568 anel BFS (mm) 30.2 37.4 31.4 1.568 anel BFS (mm) 38.3 39.7	Size: Note Size	St Dev Vater Sult C-5 Avg. Vel. (th/sec] 1426 7 1428 1 1422 3 1428 1 1427 5 1428 8 1428 2 1428 1 1427 5 1423 8 Average St Dev. C-1 Avg. Vel (th/sec] 1429 4 1431 4 1430 4	1 75 mersion: Back Part (Y=(IN=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	The second secon	Note
Am Shol Number 1 2 3 4 5 6 7 7 8 Summa Shot Number 1 2	Munition: Sample Avg. Vel. (tUsec) 1437 8 1430.6 1423 2 1445.2 1445.2 1445.2 1433 9 ry: Sample Avg. Vel (ft/sec) 1422 6 1422 6 1422 8	44 N 5 Front P. Pert (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Mag anel BFS (mm) 35 % 35 % 35 % 35 % 35 % 35 % 35 % 35 %	 31 2 241 Size Note 3 8 41 9 Size 5 1) Note 	2 mm 2 mm 3 C-5 4 vg. Vel. (Weec) 1425 7 1425 7 1425 7 1425 7 1436 1 1431 2 1446 9 1434 8 (Pass) 5 mm 2 C-1 4 vg. Vel. (Wsec) 1422 5 1426 1 1432 2 1426 1 1432 2 1438 2 1438 2	T Reference (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	hreat 2 ence Ve Shot-to anel BFS (mm) 37 4 41 5 36.3 36.3 No BFS Panel BFS) (mm) 39 3 37 5	greater - New elocity: -Edgo: Note BFS greate Note	then 44 / Armor 1430 3 Sample Avg. Vol (there) 1431 2 1431 2 1421 7 1428 3 1411.9 1420.9 1422.8 Statistics r then 44 Avg. Vel (there 44 Sample Avg. Vel (there 44 Avg. Vel (there 44) Avg. Vel (there 44) (there 44) (the	k1 mm) ± 30 ft/s inches 6 Front Part (Y=10×0) 0 0 0 0 0 0 0 0 0 0 0 0 0	1.568 anel BFS (mm) 30.2 37.4 31.4 1.568 anel BFS (mm) 38.3 39.7	Size: Note Size	St Dev Vater Sult C-5 Avg. Vel. (tt/sec] 1426 7 1433 1 1422.3 1428 1 1427.5 1423 8 Average St Dev. C-1 Avg. Vel (tt/sec] 1429 4 1431 7 1434 4 1437 5	1 75 mersion: Back Part (Y=1(N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	The second secon	Note
Am Shot Number 1 2 3 4 5 6 7 8 Summa Shot Number 1 2 3 4 5 6 7 8 Summa	Munition: Sample Avg. Vel. (Usec) 1437 6 1430.5 1423 2 1445.2 1430.2 1430.2 1430.2 1430.2 1430.2 1430.2 1430.2 1432.2 1430.2 1432.2 1430.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1433.2 1432.2 1432.2 1432.2 1432.2 1433.2 1422.6 1432.2 1432.2 1422.6 1432.2 1432.2 1432.2 1422.6 1432.2 1432.2 1432.2 1432.2 1422.6 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2 1432.2	44 N 5 Front P. Pert (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Mag anel BFS (mm) 35 % 35 % 35 % 35 % 35 % 35 % 35 % 35 %	 31 2 241 Size Note 3 8 41 9 Size 5 1) Note 	2 mm 0/SJHP : C-5 Avg. Vel. (Ueso 7 1425 7 1426 7 1426 7 1426 7 1426 7 1431 2 1446 9 1434 8 (Pass) 5 mm 2: C-1 Avg. Vel. (It/sec) 1422.5 1422.5 1426.1 1432.3 1431.2	T Reference (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	hreat 2 ence Ve Shot-to anel BFS (mm) 37 4 41 5 36.3 36.3 No BFS Panel BFS) (mm) 39 3 37 5	greater - New elocity: -Edgo: Note BFS greate Note	then 44 / Armor 1430 3 Sample Avg. Vol (tloac) 1431 2 1421 7 1428.3 1411.9 1420.9 1422.8 Statistics r then 44 Avg. Vel (tloac) 1421 7 1426.7 1431 7 1445 6 1431 7 1445 6 1439 2	k1 mm) ± 30 ft/s inches 6 Front Part (Y=10×0) 0 0 0 0 0 0 0 0 0 0 0 0 0	1.568 anel BFS (mm) 30.2 37.4 31.4 1.568 anel BFS (mm) 38.3 39.7	Size: Note Size	St Dev Vater Sult C-5 Avg. Vel. (th/sec] 1426 7 1428 1 1422 3 1428 1 1427 5 1428 8 1428 2 1428 1 1427 5 1423 8 Average St Dev. C-1 Avg. Vel (th/sec] 1429 4 1431 4 1430 4	1 75 mersion: Back Part (Y=1(N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	The second secon	Note
Am Shot Number 1 2 3 4 5 6 7 8 Summa Shot Number 1 2 3 4 5 6 7	Munition: Sample Avg. Vel. (tbsc) 1437.8 1430.5 1423.2 1445.2 1430.2 1430.2 1430.2 1433.9 ry: Sample Avg. Vel. (ft/soc) 1422.6 1432.2 1430.8 1422.7 1433.3 1421.7 1433.3 1421.7 1433.8 1421.7 1433.8 1421.7 1433.8 1422.8 1433.8 1422.8 1433.8 1422.8 1433.8 1422.8 1433.8 1422.8 1433.8 1422.8 1433.8 1422.8 1433.8 1422.8 1433.8 1422.8 1433.8 1422.8 1433.8 1422.8 1433.8 1422.8 1433.8 1422.8 1433.8 1422.8 1433.8 1422.8 1433.8 1422.8 1433.8 1433.8 1423.8 1423.8 1433.8 1423.8 1433.8 1423.8 1433.8 1423.8 1433.8 1423.8 1433.8 1423.8 1433.8 1423.8 1433.8 1423.8 1433.8 1423.8 1423.8 1433.8 1423.8 1423.8 1423.8 1423.8 1423.8 1423.8 1423.8 1423.8 1423.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1433.8 1435.8 1435.8 1435.8 1435.8 1435.8 1435.8 1435.8 1435.8 1435.8 1435.8 1435.8 1435.8 1435.8 1435.8 1435.8 1435.8 1435.8 1435.8 1435.8	44 N 5 Front P. Pert (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Mag anel BFS (mm) 35 % 35 % 35 % 35 % 35 % 35 % 35 % 35 %	 31 2 241 Size Note 3 8 41 9 Size 5 1) Note 	2 mm 2 mm 3 C-5 4 vg. Vel. (Weec) 1425 7 1425 7 1425 7 1425 7 1436 1 1431 2 1446 9 1434 8 (Pass) 5 mm 2 C-1 4 vg. Vel. (Wsec) 1422 5 1426 1 1432 2 1426 1 1432 2 1438 2 1438 2	T Reference (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	hreat 2 ence Ve Shot-to anel BFS (mm) 37 4 41 5 36.3 36.3 No BFS Panel BFS) (mm) 39 3 37 5	greater - New elocity: -Edgo: Note BFS greate Note	then 44 / Armor 1430 3 Sample Avg. Vol (there) 1431 2 1431 2 1421 7 1428 3 1411.9 1420.9 1422.8 Statistics r then 44 Avg. Vel (there 44 Sample Avg. Vel (there 44 Avg. Vel (there 44) Avg. Vel (there 44) (there 44) (the	k1 mm) ± 30 ft/s inches 6 Front Part (Y=10×0) 0 0 0 0 0 0 0 0 0 0 0 0 0	1.568 anel BFS (mm) 30.2 37.4 31.4 1.568 anel BFS (mm) 38.3 39.7	Size: Note Size	St Dev Vater Sult C-5 Avg. Vel. (tt/sec] 1426 7 1433 1 1422.3 1428 1 1427.5 1423 8 Average St Dev. C-1 Avg. Vel (tt/sec] 1429 4 1431 7 1434 4 1437 5	1 75 mersion: Back Part (Y=1(N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	The second secon	Note
Am Shot Number 1 2 3 4 5 6 7 8 Summa Shot Number 1 2 3 4 5 6 7 8 Summa	Munition: Sample Avg. Vel. (tf/sec) 1437 8 1430.6 1423 2 1445.2 1430.2 1439.9 ry: Sample Avg. Vel (f/sec) 1422.6 1423.2 1433.9 ry: Sample 1422.6 1423.2 1433.2 1426.5 1426.5	44 N 5 Front P Pert (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 7 Front P 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Mag anel BFS) (mm 35 ε 35 2 35 2 35 2 35 2 35 2 35 2 35 2 35 2	S 0 S 41 Size Note S 41 Size S 1 Note	2 mm 0/SJHP : C-5 Avg. Vol. (V6ec) 1425 7 1425 7 1426 7 1426 7 1436 1 1431 2 1446.9 1434 8 (Pass) 5 mm 2: C-1 Avg. Vel (V/sec) 14226 1 14226 1 14226 1 1432.3 1431.2 1438.2 1424 4	T Reference (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	hreat 2 ence Ve Shot-to anel BFS (mm) 37 4 41 5 36.3 36.3 No BFS Panel BFS) (mm) 39 3 37 5	greater - New slocity: -Edgo: Note BFS greate Note	then 44 i Armor 1430 3 Sample Avg. Vol (tt/acc) 1431 2 1421 7 1428.3 1411.9 1420.9 1422.8 Statistics r then 44 Avg. Vel (tt/acc) 1426.7 1426.7 1426.7 1426.7 1436.4 Avg. Vel (tt/acc) 1431 2 1421.7 1426.7 1426.7 1436.4 1431 7 1430.4	k1 mm) ± 30 ft/s inches 6 Front Part (Y=10×=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	1.568 anel BFS (mm) 30.2 37.4 31.4 12 1.568 anel BFS (mm) 38.3 39.7 39.8	Size: Note Size Note	St Dev Vater Sult C-5 Avg. Vel. (tt/sec] 1426 7 1433 1 1422.3 1428 1 1427.5 1428 2 1427.5 1423 8 Average St Dev. C-1 Avg. Vel (tt/sec] 1429 4 1431 7 1434 4 1430 4 1437 5 1444 5	1 75 mersion: Back Part (Y=1(N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	Mm Yes anel BFS (mm) 36.3 32.4 39.4 39.4 mm mm anel BFS (mm) 37.1 36.6 34.3	Note
Am Shot Number 1 2 3 4 5 6 7 7 8 Summa Shot Number 1 2 3 4 5 6 7 7	Munition: Sample Avg. Vel. (tf/sec) 1437 8 1430.6 1423 2 1445.2 1430.2 1439.9 ry: Sample Avg. Vel (f/sec) 1422.6 1423.2 1433.9 ry: Sample 1422.6 1423.2 1433.2 1426.5 1426.5	44 N 5 Front P Pert (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 7 Front P 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Mag Alag anel BFS (mm 35 2 35 2 35 2 35 5 35 5 2 anel BFS Panel BFS (mm 37 7 37 7 40 oration	 31 2 241 Size Note S 0 S 1 Note 1 15: 0 	2 mm 2 mm 3 C-5 4 vg. Vel. (Weec) 1425 7 1425 7 1425 7 1425 7 1436 1 1431 2 1446 9 1434 8 (Pass) 5 mm 2 C-1 4 vg. Vel. (Wsec) 1422 5 1426 1 1432 2 1426 1 1432 2 1438 2 1438 2	T Reference (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	hreat 2 ence Ve Shot-to anel BFS (mm) 37 4 41 5 36.3 36.3 No BFS Panel BFS) (mm) 39 3 37 5	greater - New slocity: -Edgo: Note BFS greate Note	then 44 / Armor 1430 3 Sample Avg. Vol (there) 1431 2 1431 2 1421 7 1428 3 1411.9 1420.9 1422.8 Statistics r then 44 Avg. Vel (there 44 Sample Avg. Vel (there 44 Avg. Vel (there 44) Avg. Vel (there 44) (there 44) (the	k1 mm) ± 30 ft/s inches 6 Front Part (Y=10×=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	1.568 anel BFS (mm) 30.2 37 4 31 4 12 1.568 anel BFS (mm) 38.3 39.7 39.8	Size: Note Size Note	St Dev Vater Sult C-5 Avg. Vel. (tt/sec] 1426 7 1433 1 1422.3 1428 1 1427.5 1428 2 1427.5 1423 8 Average St Dev. C-1 Avg. Vel (tt/sec] 1429 4 1431 7 1434 4 1430 4 1437 5 1444 5	1 75 mersion: Back Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	Mm Yes anel BFS (mm) 36.3 32.4 39.4 39.4 mm mm anel BFS (mm) 37.1 36.6 34.3	Note

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Page 1 of 2

(Pass - No BFS greater then 44 mm).

Perforation and BFS Summary Data

Report Number: 10N029 Test ID:			SAF09-00	01697					Rep	port Date: 07/26/10						
Manu	ifacturer:		Safarila	nd, LL(3	Model	Desigr	iation:	BA-3A00	S-XT01			NIJ Armor Type:			ЗA
						Threa	t 1 - Co	onditio	ned Armo	or						
Amr	nunition:	357 \$	SIG	12	6/FMJ	1	'est Ve	locity:	1410	± 30 ft/s		v	/ater Sub	mersion:	No	
					Shot-to-Edge: 2 inc											
Service Contraction	Sample	21		Size:	C-5				Sample	22		Size:	C-1			CONTRACTOR OF STREET
	Front Panel				Back Pa	nel			Front Pa	nel		NIJ Armor Type: Water Submersion: Ize: C-1 Back Panel Avg. Vol. Perf BFS iote (ft/sec] (Y=1/N=0) (mm) No 1435 3 0 1430 5 0 1430 3 0 1403 7 0 1394 3 0 1435.9 0 1429 4 0 1429 4 0 1429 4 0 1429 4 0 1429 4 0 1429 4 0 1429 4 0 1429 4 0 1429 4 0 1429 4 0 1429 4 0 1429 4 0 1429 4 0 1429 4 0 1429 4 0 1429 4 0 1429 4 0 1429 4 0 1429 4 0 1429 4 0 1429 4 0 1429 4 0 1435 3 1435 3 1435 3 1435 3 1435 3 1435 3 1435 3 1435 3 1435 3 1435 3 1435 3 1435 3 1435 3 1435 3				
Shot	Avg. Vol.	Perf	BFS		Avg. Vel.	Perf	BFS		Avg. Vel,	Perf	BFS		Avg, Vel,	Perf	BFS	
Numbur	(fVsec)	(Y=1/N=0)	(mm)	Note	(ft/sec)	(Y=1/N≠0)	(aun)	Note	(Nsac)	(Y=1/N=0)	(mm)	Note	(flieec)	(Y=1/N=0)	(mm)	Note
1	1415.6	0			1418.1	0	14		1426.3	0			1435 3	0		
2	1403 9	0	· 1		1409.3	0			1393 7	0	2.1		1430.5	0	1.1	
3	1402.5	0			1394.6	0			1412.4	0			1403 7	0		
4	1394.1	0			1393.6	0			1411.2	0			1394.3	Q		
5	1406.5	0			1422.0	0			1411.0	0			1435.9	0		
6	1401 5	0			1397.1	0			1414,4	0			1429.4	Q		
7																
8																
Summar	ry:	Perfor	ations:	0	(Pass)	nghi téhu.				Perfor		0	(Pass)	n provinsi	2	

Threat 2 - Conditioned Armor + 30 ft/s Test Velocity 1340

									neo Anno							
Amr	munition:	44 Mag		240	VSJHP	ן ד	est Ve	locity:		± 30 ft/s		N	Vater Sub	mersion:	No	
						S	hot-to	Edge:	3	inches						
	Sample	23	nagogi konstal interio nina filo	Size:	C-5		An an a start in the second		Sample	24		Size:	C-1			(*) a geogra antine a
		Front Panel			Back Pa	nel			Front Pa	nel		1	Back Pa	nel	president control of the	
Shot	Avg. Vol.	Perf	BFS		Avg. Vel.	he9	BFS		Avg. Vel.	Port	BFS		Avg, Vol.	Perf	BFS	
Numbor	(fUsec)	(Y=1/N=0)	(നന)	Note	(IVsec)	(Y≏1/N≖0)	(mm)	Note	(flisec)	(Y=11N=0)	(mm)	Note	(It/sec)	(Y=1/N=0)	(៣៣)	Note
1	1360 5	Ü	1		1362.8	Û			1335.3	0	· ·		1347.4	Q	-15 T	
2	1364.9	0			1320.2	0			1338.4	0			1346.9	Ó		
3	1324 7	0			1361.1	0			1361.4	0			1358.1	0	110	
4	1340.2	0			1368.2	0			13617	0			1344.2	0		
5	1373 1	0			1352.1	0			1351.9	0			1360.0	Q		
6	1374.4	Ö			1348.7	0			1365.8	0			1372.9	0		
7																
8																
Summar	ry:	Perfor	ations	0	(Pass)			0.0000000000000000000000000000000000000		Perlar	ations	0	(Pass)			
A set of the					1 . ja	1			(2) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2							

Overall P-BFS Summary

Perforations: This requirement is for all P-BFS tested samples - New and Conditioned

0 This armor model meets the perforation performance requirements of NU Standard-0101 06 Section 7.8 8.

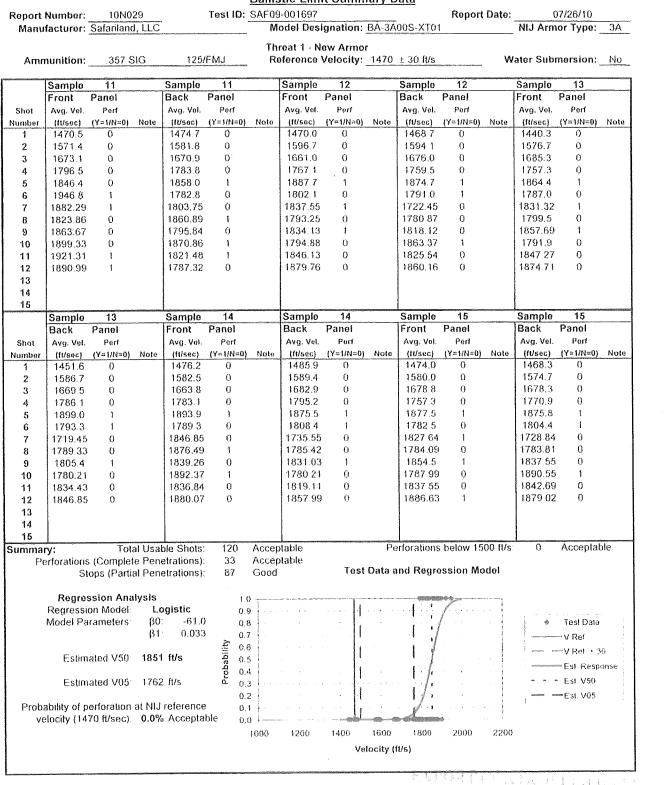
Backface Signature: This requirement is for New armors only 41,5 mm Maximum BFS:

This armor model meets the BFS performance requirements of NU Standard-0101.06 Section 7.8.8 Item a

Compliance Test Report revision 4 (2009-06-02) / Riversion 2 7 1 (2008-06-23) / MS Excet version 11 0 / Operating System version Workows (32-bit) UT 5.01

HERORI CALLEDATA Here conversion of the model of the model here proves a structure of the post A BRID DOD AND THE P In the contrast of the area problem.

Ballistic Limit Summary Data

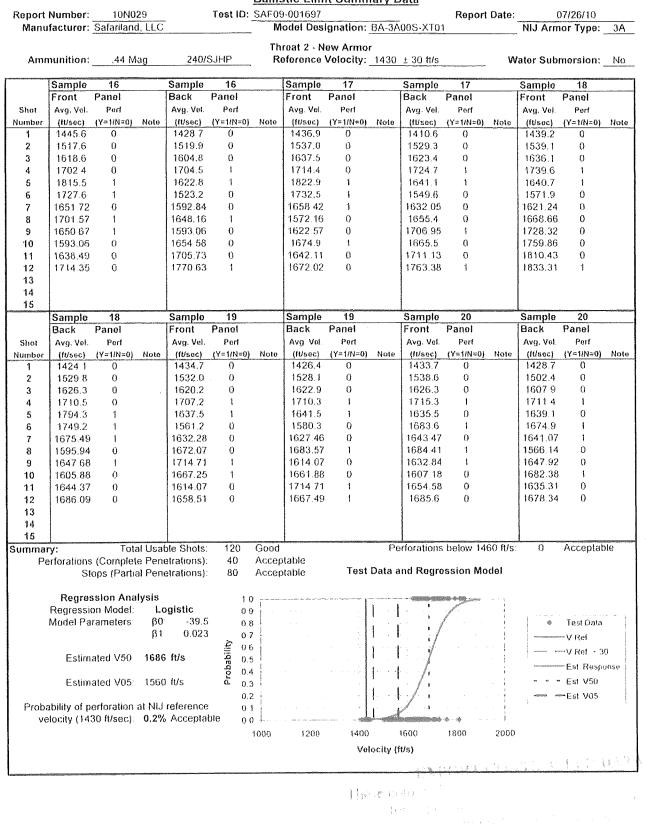


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HERE CONTRACTORS AND A CONTRAC - an that In a spart of a star of the second

Programme and BAL WARD.

Ballistic Limit Summary Data



Ballistic Limit Summary Data

	Number:	10N0			Test ID:					Report	Date:		07/26/10	
Manul	facturer:	Safarilan	<u>d, LLC</u>			M	odel Designation:	BA-3A	00S-XT0	1		NIJ Arm	or Type:	3A
	Thr	eat 1 - Co	nditio	ned Armo	or				TI	nreat 2 - C	onditi	oned Arn	101	
	nunition:			and the second	FMJ				nunition:		89	240/3	SJHP	
Test	Velocíty:	1410	± 30 ft	/s	Wot:	No		Test	Velocity:	1340	± 30 ft	/s	Wet:	No
<u> </u>	Sample	25		Sample	25				Sample	26		Sample	26	
	Front	Panel		Back	Panel				Front	Panel		Back	Panel	
Shot	Avg. Vel.	Port		Avg. Vel.	Pert			Shot	Avg. Vel.	Port		Avg. Val.	Perf	
Number	(ft/sec)	(Y=1/N=0)	Note		(Y=1/N=0)	Note		Num	(ft/sec)	(Y=1/N=0)	Note	(ft/sec)	(Y=1/N=0)	Nate
1	1385.2	0		1355.9	0			1	1322 7	0		1316.9	0	
2	1509.0	ō		1466.3	Ó			2	1443.7	õ		1462.2	Ő	
3	1599.2	0		1542.9	0			3	1519.7	0		1524.8	0	
4	1670.1	0		1642.8	0			4	1583.8	Ö		1601.1	1	
5	1759.3	0		1772.6	0			5	1639.7	0		1535.1	0	
6	1811.2	0		1812.6	0			6	1743.9	1		1592.0	0	
7	1932.01	1		1931.68	1			7	1662.99	0		1641 18	0	
8	1874.72	0		1873.74	0			8	1726.14	1		1693.78	1	
9	1926.22	1		1878.47	1			9	1681.3	1		1633.27	0	
10	1856.73	1		1874.17	1			10	1625.67	1		1719,56	0	
11	1779.72	1		1812.2	0			11	1568.46	0		1786 1	1	
12	1721.36	Ù		1825.26	0			12	1628.35	0		1729.52	1	
13								13						
14								14						
15								15						
Summar	y:							Sumn	nary:					
	Tot	al Usable	Shots:	24	Acceptab	le			Tol	al Usable	Shots:	24	Acceptab	le
	p.	erforations	; (CP);	7					Р	erforations	s (CP):	8		
		Stops	s (PP):	17						Stops	s (PP):	16		
Pe	ríoralions	below 14	40 ft/s:	0	Acceptab	le		Pe	rtorations	below 13	70 ft/s:	0	Acceptab	le
1	Regressio	ssion Ana on Model: rameters:		0.029					Regressi	e ssion An on Model. rameters		gistic -43.0		
				l	1855 P	<u> 15</u>							1668 7	<u>~7/s</u>

Overall Ballistic Limit Summary

Perforations below Vref + 30 ft/sec: 0 This requirement is for all Ballistic Limit tested samples - New and Conditioned This armor model meets the low perforation velocity performance requirements of NIJ Standard-0101.06 Section 7.9.5.

Probability of perforation at the P-BFS reference velocity This requirement is for New armors only Threat 1 0.0% Threat 2: 0.2%

This armor model meets the estimated V05 performance requirements of NIJ Standard-0101.06 Section 7.9.5.

Compliance Test Report (evision 4 (2009-08-02) / Riversion 2.7 1 (2008-06-23) / MS Excel version 11.6 / Operating System version Windows (32-bit) N1.5.01

MARINE CONTRACTOR CON These contractors and the first of the contractors and the contractors

Date Received: 08/19/10 Fed Ex Via: Returned Via: UPS

Record No: BAE101642 08/24/10 Test Date: **BAE Systems** Customer:

Test Conditions 73 Temperature:

Humidity:	50	%
Clay Block No.:	7	
Clay Temp.:	99	°F.
Drops (Avg.):	18.7	mm
Test Spec.:	Modified/A	bbreviated NIJ 0101.06
Threat Level:	Special	
Condition	New	

٩F.

Range 2 5.50 ft. Muzzle to Scr. 1: 5.73 ft. Screen 1 - 2: 5.38 ft. Screen 2 - Target: Midpoint to Target: 8.25 ft. O ft. Target to Witness: Barrel Length: 4 in. 5.5 in. Clay Block:

Inical Level.	opoon									
Condition:	New			yuugaa	A	on Descript	ion	Chron	ograph	Results
	ole/Test Descr				Shot	Caliber	Bullet	TIME	VELOCITY	Perforation
Sample	Sample	Wet	0-45 Deg.	Shot	Location	Caliber	Wt./Type	sx-5	íps	BFS (mm)
Size	Weight (Ibs.)	Dry	Angle	No.		9mm	127/SXT	458.8	1248	23.28
1RC	2,48	Wet	0	1	1	9mm 9mm	127/SXT	462.6	1238	24.69
1RC	2.48	Wet	0	2	2		127/SXT	461.9	1240	23.06
1RC	2.48	Wet	0	3	3	9mm 9mm	127/SXT	456.2	1256	No Perforatio
1RC	2.48	Wet	30	4	4		127/SXT	460.3	1244	No Perforatio
1RC	2.48	Wet	45	5	5	9mm	127/SAT 127/SXT	459.9	1245	No Perforation
1RC	2.48	Wet	0	6	6	9mm	12/13/1	409.9	1240	ind renoration
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								010.0	32-1600	Phone
This test was	performed in ac	cordanc	e with the			ites Test La	poratory		32-1600	Fax
specification r	equirements ar	nd the res	sults properl	У	7447 W. 3			310-0	32-1002	rax
eflect the bal	listic performan	ce of the	listed samp	le.	Wichita, K	<u>S 67205</u>	U.S.A.			
REMARKS/N	OTES:									
*Sample cond	titioned per N.I.	J. 0101.0	6 Sec. 7.8.2	2.						
**Projectiles p	provided by cus	tomer.								
Shot-to-edge		2.50"								
Ammunition	•									
Winchester 9	mm 127gr. SXT	' (RA9TA) @1250 fp:	s (+/-30)						
Sample Test	ed:									
Model No.:	BA-3A00S->	XT01								
Panel Side:	Front						en er er an det det			
Size:	1RC				$\mathbb{E}^{\mathbb{N}}$			n se god de november de la composition de la composition de la composition de la composition de la composition La composition de la c	a da alt	
DoM:	7/10			There a	- mana lii	S. A. Chief	yas antis Angina di Sua Suada di Sua		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 ₁₀ 8.1
Serial No.:	10141404			3.117.5713	i syrister off ≹'rie origenster	an month.		$p \in \{1, \dots, n\}$	Ant	
Lot No.:	20307				RUL CEDARC	A CONTRACTOR	non Regul.	11111		
Threat Level:					P	amman	non acean m U.S. lav	te nombil	Micel	
iniçai Level.	1111				Thurson	conhaty	10 U.S. 18W	A. DUMM	41472934	

Admin Diversion contrary to U.S. law is prohibited.

BAE Systems

Childers/Barrett

Date Received:08/19/10Via:Fed ExReturned Via:UPS

Test Conditions

Temperature:	73	°F.
Humidity ⁻	50	%
Clay Block No.:	7	
Clay Temp.:	99	°F.
Drops (Avg.):	18.7	mm
Test Spec.:	Modified/Al	bbreviated NIJ 0101.06
Threat Level:	Special	
Condition	Mow	

Record No: BAE101643 Test Date: 08/24/10 Customer: BAE Systems

Range 2	
Muzzle to Scr. 1:	5.50 ft.
Screen 1 - 2:	5.73 ft.
Screen 2 - Target:	5.38 ft.
Midpoint to Target:	8.25 ft.
Target to Witness:	0 ft.
Barrel Length:	4 in.
Clay Block:	5.5 in.

Condition:	New									~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Sam	ple/Test Descr	iption			Ammuniti	on Descripti			ograph	Results
Sample	Sample	Wet	0-45 Deg.	Shot	Shot	Caliber	Bullet	TIME	VELOCITY	Perforation
Size	Weight (lbs.)	Dry	Angle	No.	Location		WI./Type	sx-5	lps	BFS (mm)
1RRC	2.44	Wet	0	1	1	40 S&W	165/SXT	493.5	1161	25.80
1RRC	2.44	Wel	0	2	2	40 S&W	165/SXT	494.4	1159	25.21
1RRC	2.44	Wet	0	3	3	40 S&W	165/SXT	498.9	1148	26.14
1RRC	2.44	Wet	30	4	4	40 S&W	165/SXT	505.5	1133	No Perforation
IRRC	2,44	Wet	45	5	5	40 S&W	165/SXT	510.0	1123	No Perforation
1RRC	2,44	Wet	0	6	6	40 S&W	165/SXT	501.8	1141	No Perforation
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This tost was	performed in ac	cordance	e with the		United Sta	ates Test Lab	oratory	316-8	32-1600	Phone
na teat was	requirements an	d the res	ults propert	v	1	33rd St. N.	,	316-8	32-1602	Fax
specification	llistic performan	ce of the	listed samp	le	Wichita, K	S 67205	U.S.A.			
REMARKS/N			notou oump							
	ditioned per N.L.	1 0101 0	6 Sec 782	,						
	provided by cust		0.000. 1.0.							
Shot-to-edge		2.50"								
Ammunition		2.00								
Alincheolog	<u>.</u> 0 S&W 165gr. S	XT (RA4	ന്നം ത114	0 fns (+	(-30).					
winchester 4	o olavy roogn c			- 100 (
Sample Test	ad'									
Model No.:	BA-3A00S-X	(T01								
Panel Side:	Back	101					i di seconda	· · · · ·		
Panel Side:	DALK			5	an an an the second		e e statistica e	. ,	·	

Panel Side:	Back	STATES CONTRACTOR AND A CO
Size:	1RRC	新闻·新闻·新闻·新闻·新闻·新闻·新闻·新闻·新闻·新闻·新闻·新闻·新闻·新
DoM	7/10	These commutations is a mature of a standard of the formation of the second of the sec
Serial No	10141406	· · · · · · · · · · · · · · · · · · ·
Lot No.:	20307	
Threat Level:	IIIA	Administration contairy to U.S. Jaw is prohibited

Diversion contrary to U.S. law is prob BAE Systems

Childers/Barrett

Date Received. /ia: Returned Via.	08/19/10 Fed Ex UPS					Record No: Test Date: Customer:	BAE101644 08/24/10 BAE System			
Fest Condition	<u>s</u>							Range 2		• •
Temperature:		۴۶.						Muzzle to		5,50 ft.
-lumidity:	50	%						Screen 1 -	- 2:	5,73 ft.
Clay Block No.	7							Screen 2 -	- Target:	5.38 ft.
Clay Temp.:	99	٥F						Midpoint te	o Target:	8.25 ft.
Drops (Avg.):	18.7	mm						Target to V	Witness:	O ft.
Fest Spec.:	Modified/Ab	breviated	NIJ 0101.06	6				Barrel Ler	-	4 in.
Threat Level:	Special							Clay Block	C	5.5 in.
Condition:	New									
	e/Test Desc	ription			Ammuniti	on Descript	ion		ograph	Results
Sample	Sample	Wet	0-45 Deg.	Shot	Shot	Caliber	Butlet	TIME	VELOCITY	Perforation
Size	Weight (lbs.)	Dry	Angle	No.	Location		Wt./Type	\$x-5	fps 1000	BFS (mm)
1RC	2.48	Wet	0	1	1	357 Sig	125/GDHP	420.5 417.6	1362 1372	23.24 29.16
1RC	2.48	Wet	0	2	2	357 Sig 357 Sig	125/GDHP 125/GDHP	417.6	1369	25.90
1RC	2.48	Wet	0	3 4	3 4	357 Sig 357 Sig	125/GDHP		1352	No Perforation
1RC	2.48	Wet	30 45	4 5	4 5	357 Sig	125/GDHP	1	1370	No Perforation
1RC 1RC	2.48 2.48	Wet Wet	0	6	6	357 Sig	125/GDHP		1351	No Perforation
IKC	2.40	vvc(Ů I			5			•	
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This lest was p	erformed in a	iccordanc	e with the			ates Test Lal	poratory		32-1600 32-1602	Fax
specification re	quirements a	ind the res	sults properl	y Ja		33rd St. N.	U.S.A.	510-0	102-1002	T un
reflect the ballis		nce of the	listed samp	ole.	vvicnita, r	(S 67205	0.3.A.			
REMARKS/NC	DTES:		0 0 0 0 7 9 7	n						
'Sample condi	lioned per N.	i,J. UTUT.C stomor	10 Sec. 7.0.4	٤.						
**Projectiles pr Shot-to-edge d		2.50"								
Ammunition:	nstance.	2.00								
Speer 357 Sig	125gr. GDHF	o (23918)	@1375 fps	(+/-30).						
opeer eer eng	5	, .								
Sample Teste	<u>d:</u>									
Model No.:	BA-3A00S	-XT01			10 M (2	21011-1-1-1	STR. P. A	(p. 6 V)		
Panel Side:	Front				17. Pa 4	- 大道歌 新 入入者 19月1日 - 19月1日	n a service de la composition de la com La composition de la c	an a		
Size:	1RC			These	; commu	nuca, techo		nan sa sa	l and t	4 m
DoM:	7/10				forespot	2111) (ICCE) (.	land with	ERC Albert. Albert	0.212.002	
Serial No	10141403 20307					Admin.4	anos Regu	hallen).	1	
Lot No.: Threat Level:	20307 IIIA				Diversi	a contravy	to U.S. la	wie prob	pned.	
mear Level.	107-2					ΒA	E Systems			
Childers/Barre										

ate Received: a: eturned Via:	08/19/10 Fed Ex UPS				-	Record No: Test Date: Customer:	BAE10164 08/24/10 BAE Syste			
								Range 2		
est Condition		°F.						Muzzle to S	Scr. 1:	5.50 ft.
emperature:	73	%						Screen 1 -	2:	5.73 ft.
.midity:	50	%						Screen 2 -	Target:	5.38 ft.
ay Block No.:	7	AF						Midpoint to	Target:	8.25 ft.
ay Temp.:	99	°F.			•			Target to V	Vitness:	0 ft.
rops (Avg.):	18.7	mm		-				Barrel Leng		4 in.
est Spec.:	Modified/Al	breviated	NIJ 0101.06	2				Clay Block	-	5.5 in.
nreat Level.	Special							,		
ondition:	New				Ammuniti	on Descript	tion	Chrono	ograph	Results
and the second	e/Test Des		0.45.0	Shot	Shot	Caliber	Bullet	TIME	VELOCITY	Perforation
Sample	Sample	Wet	0-45 Deg.		Location	Gamber	Wt./Type	\$x•5	fps	BFS (mm)
Size	Weight (Ibs.)		Angle	No. 1	1	7.65x25	85/FMJ	375.1	1527	23.88
1RRC	2.44	Wet	0 0	2	2	7.65x25	85/FMJ	371.7	1541	23.55
1RRC	2.44	Wet Wet	0	3	3	7.65x25	85/FMJ	379.8	1508	21.41
1RRC	2.44	Wet	30	4	4	7.65x25	85/FMJ	368.8	1553	No Perforation
1RRC	2.44	Wet	45	5	5	7 65x25	85/FMJ	380.2	1507	No Perforation
1RRC 1RRC	2.44	Wet	0	6	6	7.65x25	85/FMJ	378.2	1515	No Perforation
INNU	2.44								-	
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								216.9	32-1600	Phone
This lest was	performed in	accordan	ce with the		United St	ates Test La	aboratory		32-1602	Fax
enertication r	equirements	and the re	esults proper	rly		33rd St. N.	U.S.A.	0,00		
reflect the ball	istic perform	ance of th	e listed sam	ple.	Wichita,	KS 67205	0.0.7.			
REMARKS/N 'Sample conc ''Projectiles p Shot-to-edge Ammunition: Tokarev Rom	litioned per N provided by c distance:	ustomer. 2.50"								·
Sample Test										
Model No.:	BA-3A00	S-XT01			EXPOR	143511		11.8 1 1	1) 1	
Panel Side:	Back		The	0.00 212347		w hach a	V. 6. 1915.	$(-1, 1, 1, 2, \dots, 1)$	n offed	
Size:	1RRC		1110	55 5 5 9 H - E. Gro	avand 100	icantan-		(1, 1) as	i - ŧ	
DoM:	7/10	6		14)1	A do	nach uid	i kanala	祖.		
Serial No.:	1014140 20307	U .		81.1	73011	gangers tref	1.S. law is	mahihied		
Lot No.: Threat Level:				Dr	version co	$\frac{1000}{1000} \times \frac{1000}{1000} \times \frac{1000}{1000$	an da series. Na da series	Į.		
meat Level	111/7					BAU Sy	CACHIN			
Childers/Bar										

Date Received: Via: Returned Via:	08/19/10 Fed Ex UPS					Record No: Test Date: Customer:	BAE101676 08/30/10 BAE Syster			
Test Condition Temperature: Humidity: Clay Block No.: Clay Temp.: Drops (Avg.): Test Spec.: Threat Level: Condition:	n <u>s</u> 73 ° 48 % : 8 101 °		0-45 Deg. Angle 0 0 0 0 30 45 0	5 Shot No. 1 2 3 4 5 6	Ammuniti Shot Location 1 2 3 4 5 6	on Descript Caliber 9mm 9mm 9mm 9mm 9mm 9mm 9mm		Range 3 Muzzle to 3 Screen 1 - Screen 2 - Midpoint to Target to V Barrel Len Clay Block Chrone TIME sx-5 524.9 534.6 523.1 534.6 519.8 529.9	2: Target: 5 Target: Vitness: gth:	6.33 ft. 5.73 ft. 4.58 ft. 7.45 ft. 0 ft. 4 in. 5.5 in. Results Perforation BFS (mm) 12.72 14.14 16.55 No Perforation No Perforation No Perforation
This test was p	performed in ac	ccordance	e with the			ates Test Lal 33rd St. N.	ooratory		- - - - - - - - - - - - - - - - - - -	Phone Fax
REMARKS/NC *Sample cond **Projectiles p Shot-to-edge c Ammunition:	istic performan <u>DTES:</u> itioned per N.I. rovided by cus distance:	uce of the J. 0101.0 tomer. 2.50"	listed samp 6 Sec. 7.8.7	ole	Wichita, k		U.S.A.			
Sample Teste Model No.: Panel Side: Size: DoM: Serial No.: Lot No.: Threat Level:				hese ci fe	EXPO mmodific n exporta Ac	es, technolo naccordar Janinettata contrary ba	GaCH, Flor age, or sol, on Kegulat (U.S. law i Systems	9.524 4.5 E. 109.	- (s) (1	

Zerger/Childers

Date Received: 11/11/10 Via: Fed Ex Returned Via: UPS

Test Conditions

and the second sec		
Temperature:	73	°F.
Humidity:	47	%
Clay Block No .:	9	
Clay Temp.:	100	°F.
Drops (Avg.):	19.8	mm
Test Spec.:	Modified/A	bbreviated NIJ 0101.06
Threat Level:	Special Th	ireat
Condition:	New	

Record No.: BAE102248 Test Date: 11/12/10 Customer: BAE Systems

Range 2	
Muzzle to Scr. 1:	5.33 ft.
Screen 1 - 2:	5.73 ft.
Screen 2 - Target:	5.29 ft.
Midpoint to Target:	8.16 ft.
Target to Witness:	0 ft.
Barrel Length:	4.8 in.
Clay Block:	5.5 in.

Samp	le/Test Descr	iption			Ammuniti	on Descript	ion	Chron	ograph	Results
Sample	Sample	Wet	0-45 Deg.	Shot	Shot	Callber	Bullet	TIME	VELOCITY	Perforation
Size	Weight (lbs.)	Dry	Angle	No.	Location		Wt./Type	sx-5	fps	BFS (mm)
MRRC	1.83	Wet	0	1	1	5.7x28	SS195	273.1	2097	13.89
MRRC	1.83	Wet	0	2	2	5,7x28	SS195	266.0	2153	17.81
MRRC	1.83	Wet	0	3	3	5.7x28	SS195	272.2	2104	18,57
MRRC	1.83	Wet	30	4	4	5.7x28	SS195	273.1	2097	No Perforation
MRRC	1.83	Wet	45	5	5	5.7x28	SS195	272.3	2104	No Perforation
MRRC	1.83	Wet	0	6	6	5.7x28	SS195	269.7	2124	No Perforation
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This test was p	erformed in acc	cordance	with the		United Stat	es Test Labo	oratory	316-83	2-1600	Phone
specification re	quirements and	d the resi	ults properly	/	7447 W. 3	Brd St. N.		316-83	2-1602	Fax
reflect the ballis	stic performanc	e of the l	isted sampl	е.	Wichita, KS	67205	U.S.A.			
REMARKS/NO	EMARKS/NOTES:									

Shot location marking per NIJ 0101.06, Section 7.8.1. Shot-to-edge distance: 2.50"

Test Round Used:

FN 5.7x28 SS195 L.F. @ Hand Gun Speed.

Sample Tested:

Sample Tester	<u>1:</u>	
Manufacturer:	Safariland, LLC.	These comments is a londowy, or other a second talks
Model No.:	BA-3A00S-XT01	for experience and mean which the life for protection of the second seco
Panel Side:	Back	Administration Regulation.
Size:	MRRC	Diversion contrary to U.S. law is prolubited.
DoM:	Jul 2010	Obstation Contaily (0.6.2) real solution
Serial No.:	10141390	BAF Systems
Lot No,:	020307	

Sample Description:

No sample description per customer request.

Zerger/Childers

Date Received:11/11/10Via:Fed ExReturned Via:UPS

Test Conditions

Temperature:	73	°F.
Humidity:	47	%
Clay Block No.:	9	
Clay Temp.:	99	°F.
Drops (Avg.):	19.5	mm
Test Spec.:	Modified/A	bbreviated NIJ 0101.06
Threat Level:	Special Th	nreat
Condition [,]	New	

Record No.: BAE102251 Test Date: 11/12/10 Customer: BAE Systems

Range 2 Muzzle to Scr. 1: 5.33 ft. Screen 1 - 2: 5.73 ft. Screen 2 - Target: 5.29 ft. Midpoint to Target: 8.16 ft. Target to Witness: 0 ft. Barrel Length: 4.8 in. Clay Block; 5.5 in.

Condition:	New			abates/1857-055/area/Unitediated					adrese a deservation of the second	
Sam	ple/Test Descr	iption				on Descrip			ograph	Results
Sample	Sample	Wet	0-45 Deg.	Shot	Shot	Caliber	Bullet	TIME	VELOCITY	Perforation
Size	Weight (lbs.)	Dry	Angle	No.	Location		Wt./Type	sx-5	fps	BFS (mm)
LRRC	2.11	Wet	0	1	1	5.7x28	SS195	269,3	2127	16.06
LRRC	2.11	Wet	0	2	2	5.7x28	SS195	266.7	2148	15.92
LRRC	2.11	Wet	0	3	3	5.7x28	SS195	271.0	2114	17.18
LRRC	2.11	Wet	30	4	4	5.7x28	SS195	277.0	2068	No Perforation
LRRC	2.11	Wet	45	5	5	5.7x28	SS195	271.6	2109	No Perforation
LRRC	2.11	Wet	0	6	6	5.7x28	SS195	276.2	2074	No Perforation
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This test was performed in accordance with the					United Sta	tes Test Lab	oratory	316-83	32-1600	Phone
	equirements an			y	7447 W. 3	3rd St. N.	-	316-83	32-1602	Fax
	listic performanc				Wichita, K	S 67205	U.S.A.			
EMARKS/N								•		
				<u>~</u> · ·						

Shot location marking per NIJ 0101.06, Section 7.8.1. Shot-to-edge distance: 2.50"

Test Round Used:

FN 5.7x28 SS195 L.F. @ Hand Gun Speed.

Sample Tested:

Manufacturer:	Safariland, LLC.	
Model No.:	BA-3A00S-XT01	These control to budies on successfulled
Panel Side:	Back	
Size:	LRRC	for experimentation examined to trajent
DoM:	Jul 2010	Administration Regulation.
Serial No .:	10141397	Diversion conteny to U.S. law is prohibited
Lot No.:	020307	BAL Systems

Sample Description:

No sample description per customer request.

Zerger/Childers



A Product of the Safariland[™] Company

TECHNICAL SPECIFICATION Xtreme[®] Series – XT01F – Type IIIA

Test Standard	NIJ Standard: 0101.06				
Model	NIJ: BA-3A00S-XT01F				
Threat Type	IIIA				
Configuration	Semi-Structured				
Armor Material	Twaron® Micro-laminate, Gold Shield® GN-2117, Curv® Solid using High Strength Polypropylene Composite Material, Advanced Perimeter Stitching, Female Semi-structured using Cover Dart Technology™				
Armor Panel Covering	2 ply, 70 Denier Nylon with Urethane Backing and Heat Sealed Edges				
Areal Density [lbs/ft ²]	1.24				
Thinness [inches] ASTM Standard D1777-97	0.240				
New V50 – .357 SIG FMJ FN 125 gr [ft/s]	1920				
Conditioned V50 – .357 SIG FMJ FN 125 gr [ft/s]	1854				
New V50 – .44 Mag JSP 240gr [ft/s]	1733				
Conditioned V50 – .44 Mag JSP 240gr [ft/s]	1707				
Backface Average – .357 SIG	29.16				
Backface Average – .44 Mag	38,50				
Additional Special Threats have been Tested at USTL in accordance with Modified/Abbreviated NIJ 0101.06 Standard IAW Sec 7.8.2 unless otherwise specified.					
Federal 9mm 100Gr. Frangible (BC9NT3) -Tes					
 Speer 357 Sig 125Gr. GDHP (23918) -Tested Velocity 1375fps ± 30 – No Perforations 					

- Winchester 9mm 127Gr. SXT (RA9TA) Tested Velocity 1250fps \pm 30 No Perforations
- Winchester 40 S&W 165 Gr. SXT (RA40TA) Tested Velocity 1140 fps ± 30 No Perforation (continued on back)

21 July 2011

ABA Technical Specifications_XT01F_Type IIIA_Rev.3

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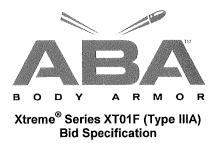
SAFARILAND



A Product of the Safariland[™] Company

• 7.65x25 85Gr. FMJ Romanian Tokarev - Tested Velocity 1530fps ± 30 – No Perforations





1. Scope:

The scope of this product specification provides information relating to the American Body Armor[®] Extreme Series XT01F (Type IIIA) Model (NIJ Model # BA-3A00S-XT01F) that is compliant with National Institute of Justice (NIJ) Standard 0101.06 Ballistic Resistance of Personal Body Armor for Type IIIA classification and manufactured by Safariland[™].

2. Research & Development and Manufacturing:

The manufacturer (Safariland[™]) of the armor model, as listed on the NIJ's Compliant Product List (CPL), solely performs the research, development, and manufacturing capabilities described below. Other manufacturers of armor models listed on the CPL that have outsourced similar capabilities shall be deemed as inferior.

Capabilities	Internal	Out Sourced
Soft Armor Research and Development	X	
Hard Armor Research and Development	X	
Soft and Hard Armor Ballistic, Stab and Fragmentation Testing	X	
Soft and Hard Armor Non-Destructive and Destructive Testing	X	
Carrier Research and Development	X	
Domestic Soft and Hard Armor Manufacturing Facilities	X	
Domestic and International Carrier Manufacturing Facilities	X	

3. Armor Design (Construction):

The American Body Armor[®] Xtreme[®] Series XT01F (Type IIIA) model has the following armor design characteristics:

Feature(s)	Definition(s)	Benefit(s)
Hybrid Technology	The use of multiple types of ballistic, stab, fragmentation and blunt trauma resistant materials in an armor design.	Provides the perfect balance between blunt trauma reduction and ballistic resistance against a wide array of bullets.
Woven Aramid-Teijin Twaron [®]	The use of Teijin Twaron [®] products made from Aramid fibers in various size yarns (dtex) that are woven together to form a fabric of material	Provides a high level of ballistic resistance with high impact properties, excellent thermal stability and chemical resistance. The addition of coatings and micro-laminates enhance the chemical and mechanical properties for durability in various conditions
Gold Shield [®] GN-2117 Unidirectional Aramid Fiber	Honeywell's latest addition to the Gold family of soft armor products. Gold Shield [®] GN-2117 combines Honeywell's patented Shield technology with Aramid fiber. Gold Shield [®] GN-2117 is a ballistic product consisting of two plies of unidirectional Aramid fiber, cross-plied at 0°/90°.	Gold Shield [®] GN-2117 provides strong protection against the NIJ .06 threats and alternate threats. It has excellent fragmentation protection as well as substantial reduction of blunt trauma in a ballistic event. Gold Shield [®] GN-2117 was designed for increased flexibility and comfort.
Curv [®] Solid Technology High Strength Polypropylene	The use of a solid piece of high strength polypropylene composite material sewn to ballistic materials within the armor design.	Provides a reinforced area across the entire armor panel for increased performance during edge shots and reduced blunt trauma. In addition, provides low impact movement and rapid impact recovery of the armor panel following a ballistic event.
Advanced Stitching (Single Perimeter)	The use of a single ballistic stitch pattern along the entire perimeter of the armor panel.	Provides a reinforced area along the perimeter of the armor panel for increased performance during edge shots.

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3. Armor Design (Construction) – continued:

Feature(s)	Definition(s)	Benefit(s)
Covered Dart Construction (Female Semi-Structured Design)	The technique of forming bust cups through the cutting of darts into the armor panel, then stitching an additional armor insert over the dart to provide the designated level of protection	Provides an exact imitation of the female bust area allowing for 360 ⁰ degrees of protection without the exposed area caused by butted slits or darts. In addition, allows uniformity for both male and female armor model in material design for both genders.
Grip Loc [™] Integrated Suspension System	The use of adhesive tabs sewn to the armor panel that adheres to the interior of the cover material. In addition, Velcro [®] Hook Tabs are adhered to the exterior of the cover material for added support.	This provides an integrated suspension system that transfers the weight of the armor panel through the cover material and carrier to the shoulder straps. The suspension system prevents the armor panel from bunching at/on the bottom of the carrier and forming horizontal set wrinkles, therefore, increasing the life cycle of the ballistics and adding additional protection in a ballistic event.
Water resistant Cover with Heat Sealed Edges	The use of a Brookwood 70 Denier nylon blockade with TPU lamination system that has a hydrostatic resistance (ASTM-D 751) minimum of 120 pounds per square inch (PSI) to burst and breakaway adhesion (ASTM-D 5035) minimum of 25 pounds per inch (lbs/in). Armor panel has edges heat- sealed through a son bond process with a minimum of a .25" wide seal.	Provides a durable protective cover around the armor panels that resists environmental contaminate(s).

4. Armor Design (Ballistic Performance):

The American Body Armor[®] Xtreme® Series XT01F (Type IIIA) has the following performance characteristics as documented through a combination of NIJ Body Armor Compliance Testing Summary Reports, Independent NIJ Laboratory Testing Reports, and internal Safariland[™] Ballistic Laboratory Testing:

Feature(s)	Data
Areal Density (lbs per square foot)	1.24 (lbs ft ²)
Thinness (inches)	0.240
.357 SIG Estimated V-50 (New) (feet per second)	1920 (fps)
.357 SIG Estimated Velocity with 95 % Probability of Stop V-05 (New) (feet per second)	1837 (fps)
.357 SIG Probability of Perforation at P-BFS (New) (percentage)	0.0 (%)
.357 SIG Average Backface Signature (New) (millimeters)	29.16 (mm)
.44 Mag Estimated V50 (NEW) (feet per second)	1733 (fps)
.44 Mag Estimated Velocity of 95% Probability of Stop V-05 (NEW) (feet per second)	1551 (fps)
.44 Mag Probability of Perforation at P-BFS (NEW) (percentage)	0.7 (%)
.44 Mag Average Backface Signature (NEW) (millimeters)	38.50 (mm)
.357 SIG Estimated V-50 (conditioned) (feet per second)	1854 (fps)
.44 Mag Estimated V-50 (conditioned) (feet per second)	1707 (fps)
Independent NIJ Laboratory Special Threat Testing –	Federal 9mm 100Gr. Frangible, Speer 357
6 Shot Perforation – Backface Signature (P-BFS)	Sig 125Gr.GDHP, Winchester 9mm 127Gr.
	SXT, Winchester 40 S&W 165 SXT,
	7.65x25 85Gr. FMJ Romanian Tokarev

5. Availability:

The American Body Armor [®] Xtreme[®] Series XT01F (Type IIIA) model is available in accordance with the NIJ Compliance Product List (CPL) as follows:

Classification(s)	Current Status
NIJ Template Size Availability	NIJ C-1 through NIJ C-5
Gender Neutral Armor Model Design Availability	No
Gender Specific Shape and Grade for Male(s) Availability	No
Gender Specific Shape and Grade for Female(s) Availability	Yes

21 July 2011

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ABA Bid Specification_XT01F_Type IIIA_REV.4

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6. Support Programs:

Classification(s)	Current Status 5 Years				
Warranty					
Quality Assurance Program(s)	ISO 9001 / Vest Check Program				
Safety Assurance Program(s)	OHSAS 18001				
Environmental Assurance Program(s)	ISO 14001				
Liability Insurance	Information Available Upon Request				

ABA Bid Specification_XT01F_Type IIIA_REV.4

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U.S. Department of Justice

Office of Justice Programs

National Institute of Justice

Washington, D.C. 20530

February 25, 2011

Scott O'Brien President Safariland, LUC 3120 East Mission Blvd Ontario, CA 91761

> Notice of Compliance with NIJ Standard~0101.06 Body Armor Model Designation: BA-3A00S-XT01F NIJ Compliance Status Expires: February 25, 2016

Dear Mr. O'Brien:

We have completed our evaluation of the body armor model identified above that was submitted to the National Institute of Justice's (NIJ's) Voluntary Body Armor Compliance Testing Program. We are pleased to inform you that the above body armor model satisfies the requirements of NIJ Standard-0101.06 and the Compliance Testing Program.

We also received your completed declaration concerning the model noted above and your agreement to participate in the conformity assessment follow-up process.

The body armor model details are listed on the NIJ Compliant Products List available at www.justnet.org/CTP.

You are now authorized to place the NLI Statement of Compliance on the labels of this body armor model and all subsequent production units. The Statement of Compliance shall read:

"This model of armor has been determined to comply with NIJ Standard-0101.06 by the NIJ Compliance Testing Program and is listed on the NIJ Compliant Products List."

All compliance requirements, as identified by the *NIJ Body Armor Compliance Testing Program Administrative Manual* and the *Ballistic Body Armor Applicant Package*, must be maintained as long as the NIJ Statement of Compliance is displayed on this armor model's labels. If, at any time, the compliance status of this armor model is changed, the NIJ Statement of Compliance shall cease to be used as of the date of the status change.

Sincerely.

John & Star

Debra Stoe Physical Scientist National Institute of Justice

Perforation and BFS Summary Data

	بعره ما مصريا ا					SVEU0 00								11/		
	Number:			nd. LLC		SAF09-00		ation	BA-3A00	S-XT01E		керс	ort Date:	J Armor	02/10	
manur	facturer:	<u> </u>	alamai	IU. LLO		mouer	Jesign	auon.	DA-SHUU	3-ATUT			14	IJ AI IIIOI	iype.	
							reat 1									
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ŀ	Sample	1		Size:	C-5	Deel Dee	1		Sample	2		Size:	C-5	Deal: Dea	1	
		Front Pa			Avg. Vel.	Back Par Perf	BFS		Avg. Vel.	Front Par Perf	BFS		Avg. Vel,	Back Par Perf	BFS	
Shot	Avg. Vel.	Perf	BFS	Note	-		(mm)	Note	(ft/sec)	(Y=1/N=0)	(mm)	Note	-	(Y=1/N=0)		Note
Number 1	(ft/sec) 1440.9	(Y=1/N=0) 0	(mm) 27.9	Note	1481.0	0	28.7	Note	1459.9	0	26.6	Note	1477.9	0	28.0	Note
2	1440.5	0	35.7		1447.6	0	27.6		1487.7	õ	28.9		1462.5	õ	27.0	
3	1462.7	0	32.5		1469.5	0	28.6		1499.1	õ	28.9	1	1462.0	õ	25.8	
4	1443.1	õ		9	1454.7	0			1480,6	0		g	1479.6	ō		
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6	1457.9	0		3	1483.2	0			1459.9	0		Ŭ	1487.2	0		
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8																
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						(Pass - No	BFS	greater	then 44 n	าm)						
NAX-2016004444400																
	Sample	3		Size:	C-1				Sample	4		Size:	C-1			
[Front Pa				Back Pa				Front Pa				Back Pa		
Shot	Avg. Vel.	Perf	BFS		Avg. Vel.	Perf	BFS		Avg, Vel.	Perf	BFS		Avg. Vel.	Perf	BFS	
Number	(ft/sec)		(mm)	Note	(ft/sec)	(Y=1/N=0)	(mm)	Note	(ft/sec)	(Y=1/N=0)	(mm)	Note		(Y=1/N=0)		Note
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2	1475.4	0	33.3		1488.2	0	30.1		1474.1	0	30.4		1481.5	0	28.9	
3	1485.9	0	29.1	<i>a</i>	1450.8	0	28.7		1473.5	0	29.0		1470.8	0 0	28.6	
4	1477.2	0		g	1474.1 1469.5	0 0			1474.1 1487.1	0 0		g	1479.3 1471.0	0		
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7 8 ummar	y: nunition:	Maximun	n BFS:	33.3 	mm /SJHP	Th Refere	nreat 2	greater - New locity:	then 44 r Armor 1430	k1: nm) <u>± 30 ft/s</u> inches		. W	St. Dev.: /ater Sub		mm	
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7 8 ummar	nunition: Sample Avg. Vel.	Maximum .44 M 5 Front Pa Perf	ag nel BFS	33.3 240 Size:	/SJHP C-5 Avg. Vel.	Th Refere S Back Pa Perf	nreat 2 nce Ve hot-to nel BFS	greater - New locity: -Edge:	then 44 r Armor 1430 3 Sample Avg. Vel.	k1: nm) <u>± 30 ft/s</u> inches <u>6</u> Front Pa Perf	1.568 Inel BFS	W Size:	St. Dev.: Vater Sub C-5 Avg. Vet.	1.51 mersion: Back Pa Perf	mm Yes nel BFS	
7 8 ummar Amr Shot Number	nunition: Sample Avg. Vel. (ft/sec)	Maximum .44 M 5 Front Pa Perf (Y=1/N=0)	ag Inel BFS (mm)	33.3 	MM /SJHP C-5 Avg. Vel. (ff/sec)	Tł Refere S Back Pa Perf (Y=1/N=0)	nreat 2 nce Ve shot-to nel BFS (mm)	greater - New locity:	then 44 r Armor 1430 3 Sample Avg. Vel. (ft/sec)	k1: nm) <u>± 30 ft/s</u> inches 6 Front Pa Perf (Y=1/N=0)	1.568 Inel BFS (mm)	. W	St. Dev.: /ater Sub C-5 Avg. Vet. (ff/sec)	1.51 mersion: Back Pa Perf (Y=1/N=0)	mm Yes nel BFS (mm)	Note
7 8 ummar Amr Shot <u>Number</u> 1	nunition: Sample Avg. Vel. (ft/sec) 1439.3	Maximum .44 M 5 Front Pa Perf (Y=1/N=0) 0	ag ag nel BFS (mm) 36.6	33.3 240 Size:	MM /SJHP C-5 Avg. Vel. (ft/sec) 1457.7	Th Refere S Back Pa Perf (Y=1/N=0) 0	nreat 2 nce Ve ihot-to nel BFS (mm) 37.2	greater - New locity: -Edge:	then 44 r Armor 1430 3 Sample Avg. Vel. (ft/sec) 1452.7	k1: nm) <u>± 30 ft/s</u> inches <u>6</u> Front Pa Perf (Y=1/N=0) 0	1.568 inel BFS (mm) 36.6	W Size:	St. Dev.: /ater Sub C-5 Avg. Vel. (ft/sec) 1441.6	1.51 mersion: Back Pa Perf (Y=1/N=0) 0	mm Yes nel BFS (mm) 33.8	Note
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7 8 ummar Amr Shot <u>Number</u> 1 2 3 4 5 6	nunition: Sample Avg. Vel. (fvsc) 1439.3 1445.5 1444.4 1441.4 1441.4 1441.4	Maximum 	ag (nel BFS (mm) 36.6 38.8	33.3 240 Size: Note	mm /SJHP C-5 Avg. Vel. (ft/sec) 1457.7 1445.7 1429.6 1443.1	Th Refere S Back Pa Perf (Y=1/N=0) 0 0 0 0	nreat 2 nce Ve hot-to nel BFS (mm) 37.2 39.5	greater - New locity: -Edge:	then 44 r 4rmor 1430 3 Sample Avg. Vel. (ft/sec) 1452.7 1426.5 1435.9 1459.9 1459.9 14430.0 1437.6	k1: nm) <u>+ 30 ft/s</u> inches 6 Front Pa Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0	1.568 Inel BFS (mm) 36.6 41.0	W Size: Note	St. Dev.: /ater Sub C-5 Avg. Vel. (ff/sec) 1441.6 1439.1 1435.5 1431.5	1.51 mersion: Back Pa Perf (Y=1/N=0) 0 0 0 0	mm Yes nel BFS (mm) 33.8 39.7	Note
7 8 ummar Amr Shot <u>Number</u> 1 2 3 4 5 6 7	nunition: Sample Avg. Vel. (f/sec) 1439.3 1445.5 1444.4 1441.4 1441.4	Maximum 	ag (nel BFS (mm) 36.6 38.8	33.3 240 Size: Note	mm /SJHP C-5 Avg. Vel. (ft/sec) 1457.7 1445.7 1429.6 1443.1 1433.0	Th Refere S Back Pa Perf (Y=1/N=0) 0 0 0 0 0 0 0	nreat 2 nce Ve hot-to nel BFS (mm) 37.2 39.5	greater - New locity: -Edge:	then 44 r Armor 1430 3 Sample Avg. Vel. (ft/sec) 1452.7 1426.5 1435.9 1459.9 1459.9 1459.9	k1: nm) <u>+ 30 ft/s</u> inches 6 Front Pa Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0	1.568 Inel BFS (mm) 36.6 41.0	W Size: Note	St. Dev.: /ater Sub C-5 Avg. Vel. (ft/sec) 1441.6 1439.1 1435.5 1431.5 1452.3	1.51 mersion: Back Pa Perf (Y=1/N=0) 0 0 0 0 0 0	mm Yes nel BFS (mm) 33.8 39.7	Note
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7 8 ummar Amr Shot <u>Number</u> 1 2 3 4 5 6 7 8	nunition: Sample (ft/sec) 1439.3 1445.5 1444.4 1441.4 1431.4 1452.7 1446.98	Maximum 	ag mel BFS (mm) 36.6 38.8 38.0	33.3 240 Size: Note 9 9	mm /SJHP C-5 Avg. Vel. (ft/sec) 1457.7 1445.7 1429.6 1443.1 1433.0	Th Refere S Back Pa Perf (Y=1/N=0) 0 0 0 0 0 0 0	nreat 2 nce Ve hot-to nel BFS (mm) 37.2 39.5	greater - New locity: -Edge: Note	then 44 r Armor 1430 3 Sample Avg. Vel. (ft/sec) 1452.7 1426.5 1435.9 1459.9 1444.0 1437.6 1427.82	k1: nm) <u>+ 30 ft/s</u> inches 6 Front Parf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	1.568 mel BFS (mm) 36.6 41.0 39.8	Size: Note	St. Dev.: /ater Sub C-5 Avg. Vel. (ff/sec) 1441.6 1439.1 1435.5 1431.5 1452.3 1421.4	1.51 mersion: Back Pa Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 38.3	mm Yes nel BFS (mm) 33.8 39.7 39.7	Note
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(fUsec) 1438.9 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1443.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1445.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 1455.5 14	k1: nm) <u>+ 30 ft/s</u> inches 6 Front Par (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	1.568 inel BFS (mm) 36.6 41.0 39.8 1.568 anel BFS (mm) 37.0 39.4 39.4 39.4 39.4 12 1.568	Size: Note g g Size: Note	St. Dev.: /ater Sub C-5 Avg. Vel. (ft/sec) 1441.6 1439.1 1435.5 1452.3 1452.3 1421.4 Average: St. Dev.: C-1 Avg. Vel. (ft/sec) 1447.0 1435.1 1439.1 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0	1.51 mersion: Back Pa Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	mm Yes mel BFS (mm) 33.8 39.7 39.7 mm mm mm mm mm anel BFS (mm) 36.1 38.4 2(11) 38.4 2(11) 38.4	Note
7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	nunition: Sample Avg. Vel. (ft/sec) 1439.3 1445.5 1444.4 1441.4 1441.4 1445.7 1446.98 ry: Sample Avg. Vel. (ft/sec) 1447.8 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1430.5 1427.4 1440.98 1440.98 1440.98 1440.98 1440.98 1440.98 1440.98 1440.98 1440.98 1440.98 1440.98 1440.98 1440.98 1440.98 1440.98 1440.98 1440.98 1440.98 1440.98 1440.98 1440.98 1440.98 1440.98 1440.98 1440.98 1440.98 1440.98 1440.98 1440.98 1440.98 1440.98 1440.98 1440.98 1440.98 1440.98 1440.98 1440.98 1440.98 1440.98 1440.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 1400.98 140	Maximum 	ag inel BFS (mm) 36.6 38.8 38.0 ations: anel BFS (mm) 39.7 43.3 42.5	33.3 240 Size: Note 9 9 0 41.0 Size: Note 9 9 9	mm /SJHP C-5 Avg. Vel. (ft/sec) 1457.7 1429.6 1443.1 1433.4 (Pass) mm C-1 Avg. Vel. (ft/sec) 1444.6 1431.4 1431.4	Th Refere S Back Pa Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	nreat 2 nce Ve hot-to mel BFS (mm) 37.2 39.5 39.2 0 BFS anel BFS (mm) 36.5 39.6 36.9	greater - New locity: -Edge: Note BFS greate	then 44 r Armor 1430 3 Sample Avg. Vel. (fUsec) 1452.7 1452.7 1459.9 1459.9 1459.9 1445.9 1437.6 1427.82 Statistics: then 44 r Avg. Vel. 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Vel. (ft/sec) 1441.6 1439.1 1435.5 1452.3 1452.3 1421.4 Average: St. Dev.: C-1 Avg. Vel. (ft/sec) 1447.0 1435.1 1439.1 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0 1447.0	1.51 mersion: Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mm Yes Inel BFS (mm) 33.8 33.7 33.7 33.7 33.7 39.7 mm mm mm mm BFS (mm) 36.1 38.4 34.4 34.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 35.4 3	Note

B.St. Systems

						rforatior		BFS	Summa	ry Data						
Report	Number:	10N0	43	-		SAF09-00						Rep		11		
Manu	facturer:	Ş	Safarila	and. LLC	2	Model	Desigr	ation:	BA-3A00	S-XT01F			ſ	NJ Armor	Type:	<u>3A</u>
Amn	nunition:	.357 §	SIG	12	5/FMJ	T	est Ve	locity:		± 30 ft/s		. v	ater Sub	mersion:	No	
			Non-on-contrological	~~~~~	<u> </u>	0	hot-to	Euge:	CONTRACTOR OF A DESCRIPTION OF A DESCRIP	inches		01	0.4			
	Sample	21		Size:	<u>C-5</u>	Deck De			Sample	22		Size:	U-1	Deck De		
		Front Pa				Back Pa				Front Pa				Back Pa		
Shot	Avg. Vel.	Perf	BFS		Avg, Vel,	Perf	BFS		Avg. Vol.	Perf	BFS		Avg. Vel.		BFS	
Number	(ft/sec)	(Y=1/N=0)	(mm)	Note	(ft/sec)		(mm)	Note	(ft/sec)		(mm)	Note	(ft/sec)		(mm)	Note
1	1436.7	0	26.9		1398.2	0			1404.8	0	10		1387.7	0	24.4	
2	1412.1	0	24.2		1389.9	0	÷.'		1385.0	0	Z^{n-2}		1394.1	0	200	
3	1443.9	0	10 - 10 10		1417.6		- 1		1420.5	0	2		1382.3	0	20 N	
4	1421.9	0		g	1402.4	0			1416.1	0		g	1411.3	0		
5	1441.9	0		g	1412.1	0			1432.3	0		g	1383.0	0		
6	1445.6	0			1422.5	0			1409.2	0			1419.0	0		
7																
8										1						
Summar	γ:	Perfor	ations:	0	(Pass)					Perfor	ations:	0	(Pass)			
	-	Read at	1618	20.1	50.00.1	na su tura	-:			alas su	218	290-5	$i \in \{0\}$	$\{u_{i_1,\ldots,i_n}\}_{i_1,\ldots,i_n} \in \{$	S.	
			NAME OF A DESCRIPTION O	CONTRACTOR OF CONTRACTOR	CONTRACTOR OF CONTRACTOR OF CONTRACTOR	and the second se			Contraction of the local division of the loc	and a second design of the second	CONCURSION OF A					COLORN COCHERCOCO
			99491-3						ned Armo							activent door to be door
Amr	nunition:	.44 N	lag	240)/SJHP	1	fest Ve	locity:	1340	± 30 ft/s		V	/ater Sub	mersion:	No	
Amr			lag			1		locity:	<u>1340</u> 3	± 30 ft/s inches		-		mersion:	No	
Amr	nunition: Sample	23		240 Size:		- -	fest Ve Shot-to	locity:	1340	± 30 ft/s inches 24		V Size:				
Amr					C-5	Back Pa	fest Ve Shot-to	locity:	1340 3 Sample	± 30 ft/s inches 24 Front Pa		-	C-1	Back Pa	inel	
Amr Shot	Sample Avg. Vel.	23 Front Pa Perf	nel BFS	Size:		Back Pa	fest Ve Shot-to Inel BFS	locity: -Edge:	1340 3 Sample Avg. Vel.	± 30 ft/s inches 24 Front Pa Perf	BFS	Size:	C-1 Avg. Vel.	Back Pa Perf	inel BFS	
	Sample Avg. Vel.	23 Front Pa Perf (Y=1/N=0)	anel BFS (mm)	Size: Note	C-5 Avg. Vel. (ft/sec)	Back Pa Perf (Y=1/N=0)	fest Ve Shot-to Inel BFS (mm)	locity:	1340 3 Sample Avg. Vel. (ft/sec)	± 30 ft/s inches 24 Front Pa Perf (Y=1/N=0)	8FS (mm)	-	C-1 Avg. Vel. (ft/sec)	Back Pa Perf (Y=1/N=0)	inel BFS (mm)	Note
Shot <u>Number</u> 1	Sample Avg. Vel. (ft/sec) 1339.7	23 Front Pa Perf (Y=1/N=0) 0	anel BFS (mm)	Size: Note	C-5 Avg. Vel. (ft/sec) 1343.3	Back Pa Perf (Y=1/N=0) 0	fest Ve Shot-to Inel BFS (mm)	locity: -Edge:	1340 3 Sample Avg. Vel. (ft/sec) 1379.0	± 30 ft/s inches 24 Front Pa Perf (Y=1/N=0) 0	BFS (mm)	Size:	C-1 Avg. Vel. (ft/sec) 1315.8	Back Pa Perf (Y=1/N=0) 0	Inel BFS (mm)	Note
Shot Number	Sample Avg. Vel. (ft/sec)	23 Front Pa Perf (Y=1/N=0)	anel BFS (mm)	Size: Note	C-5 Avg. Vel. (ft/sec) 1343.3 1344.0	Back Pa Perf (Y=1/N=0) 0 0	fest Ve Shot-to Inel BFS (mm)	locity: -Edge:	1340 3 Sample Avg. Vel. (ft/sec) 1379.0 1353.5	± 30 ft/s inches 24 Front Pa Perf (Y=1/N=0) 0 0	BFS (mm) 30	Size:	C-1 Avg. Vel. (ft/sec) 1315.8 1352.8	Back Pa Perf (Y=1/N=0) 0 0	inel BFS (mm) 38 5 33 4	Note
Shot Number 1	Sample Avg. Vel. (ft/sec) 1339.7	23 Front Pa Perf (Y=1/N=0) 0	anel BFS (mm)	Size: Note	C-5 Avg. Vel. (ft/sec) 1343.3 1344.0 1344.8	Back Pa Perf (Y=1/N=0) 0 0 0	fest Ve Shot-to Inel BFS (mm)	locity: -Edge:	1340 3 Sample Avg. Vel. (ft/sec) 1379.0 1353.5 1365.5	± 30 ft/s inches 24 Front Pa Perf (Y=1/N=0) 0 0 0	BFS (mm)	Size:	C-1 Avg. Vel. (ft/sec) 1315.8 1352.8 1343.6	Back Pa Perf (Y=1/N=0) 0 0 0	Inel BFS (mm)	Note
Shot <u>Number</u> 1 2	Sample Avg. Vel. (ft/sec) 1339.7	23 Front Pa Perf (Y=1/N=0) 0	anel BFS (mm)	Size: Note	C-5 Avg. Vel. (ft/sec) 1343.3 1344.0	Back Pa Perf (Y=1/N=0) 0 0 0 0	fest Ve Shot-to Inel BFS (mm)	locity: -Edge:	1340 3 Sample Avg. Vel. (ft/sec) 1379.0 1353.5 1365.5 1374.5	± 30 ft/s inches 24 Front Pa Perf (Y=1/N=0) 0 0 0 0	BFS (mm) 30	Size:	C-1 Avg. Vel. (ft/sec) 1315.8 1352.8 1343.6 1322.2	Back Pa Perf {Y=1/N=0) 0 0 0 0	inel BFS (mm) 38 5 33 4	Note
Shot <u>Number</u> 1 2 3	Sample Avg. Vel. (ft/sec) 1339.7 1353.4	23 Front Pa Perf (Y=1/N=0) 0 0	anel BFS (mm)	Size: Note	C-5 Avg. Vel. (ft/sec) 1343.3 1344.0 1344.8 1374.5 1350.0	Back Pa Perf (Y=1/N=0) 0 0 0 0 0 0	fest Ve Shot-to Inel BFS (mm)	locity: -Edge:	1340 3 Sample Avg. Vel. (ft/sec) 1379.0 1353.5 1365.5 1374.5 1384.2	± 30 ft/s inches 24 Front Pa Perf (Y=1/N=0) 0 0 0 0 0	BFS (mm) 30	Size: Note	C-1 Avg. Vel. (ft/sec) 1315.8 1352.8 1343.6 1322.2 1361.2	Back Pa Perf (Y=1/N=0) 0 0 0 0 0	inel BFS (mm) 38 5 33 4	Note
Shot Number 1 2 3 4	Sample Avg. Vel. (ft/sec) 1339.7 1353.4 1342.7	23 Front Pa Perf (Y=1/N=0) 0 0	anel BFS (mm)	Size: Note b	C-5 Avg. Vel. (ft/sec) 1343.3 1344.0 1344.8 1374.5	Back Pa Perf (Y=1/N=0) 0 0 0 0	fest Ve Shot-to Inel BFS (mm)	locity: -Edge:	1340 3 Sample Avg. Vel. (ft/sec) 1379.0 1353.5 1365.5 1374.5 1384.2 1388.4	± 30 ft/s inches 24 Front Par (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0	BFS (mm) 30	Size: Note	C-1 Avg. Vel. (ft/sec) 1315.8 1352.8 1343.6 1322.2	Back Pa Perf (Y=1/N=0) 0 0 0 0 0	inel BFS (mm) 38 5 33 4	Note
Shot Number 1 2 3 4 5	Sample Avg. Vel. (ft/sec) 1339.7 1353.4 1342.7 1341.1	23 Front Pa Perf (Y=1/N=0) 0 0 0	anel BFS (mm)	Size: Note b	C-5 Avg. Vel. (ft/sec) 1343.3 1344.0 1344.8 1374.5 1350.0	Back Pa Perf (Y=1/N=0) 0 0 0 0 0 0	fest Ve Shot-to Inel BFS (mm)	locity: -Edge:	1340 3 Sample Avg. Vel. (ft/sec) 1379.0 1353.5 1365.5 1374.5 1384.2	± 30 ft/s inches 24 Front Par (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0	BFS (mm) 30	Size: Note	C-1 Avg. Vel. (ft/sec) 1315.8 1352.8 1343.6 1322.2 1361.2	Back Pa Perf (Y=1/N=0) 0 0 0 0 0	inel BFS (mm) 38 5 33 4	Note
Shot Number 1 2 3 4 5 6	Sample Avg. Vel. (ft/sec) 1339.7 1353.4 1342.7 1341.1 1368.0	23 Front Parf (Y=1/N=0) 0 0 0 0 0 0 0 0 0	anel BFS (mm)	Size: Note b	C-5 Avg. Vel. (ft/sec) 1343.3 1344.0 1344.8 1374.5 1350.0	Back Pa Perf (Y=1/N=0) 0 0 0 0 0 0	fest Ve Shot-to Inel BFS (mm)	locity: -Edge:	1340 3 Sample Avg. Vel. (ft/sec) 1379.0 1353.5 1365.5 1374.5 1384.2 1388.4	± 30 ft/s inches 24 Front Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8FS (mm) 36 24 24 24 24 24 24 24 24 24 24 24 24 24	Size: Note g g	C-1 Avg. Vel. (ft/sec) 1315.8 1352.8 1343.6 1322.2 1361.2	Back Pa Perf (Y=1/N=0) 0 0 0 0 0	inel BFS (mm) 38 5 33 4	Note
Shot Number 1 2 3 4 5 6 7 8	Sample Avg. Vel. (ft/sec) 1339.7 1353.4 1342.7 1341.1 1368.0 1366.71 1330.08	23 Front Parf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm)	Size: Note b g g	C-5 Avg. Vel. (ft/sec) 1343.3 1344.0 1344.8 1374.5 1350.0	Back Pa Perf (Y=1/N=0) 0 0 0 0 0 0	fest Ve Shot-to Inel BFS (mm)	locity: -Edge:	1340 3 Sample Avg. Vel. (ft/sec) 1379.0 1353.5 1365.5 1374.5 1384.2 1388.4	± 30 ft/s inches 24 Front Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BFS (mm) 30	Size: Note g g	C-1 Avg. Vel. (ft/sec) 1315.8 1352.8 1343.6 1322.2 1361.2	Back Pa Perf (Y=1/N=0) 0 0 0 0 0	inel BFS (mm) 38 5 33 4	Note
Shot Number 1 2 3 4 5 6 7	Sample Avg. Vel. (ft/sec) 1339.7 1353.4 1342.7 1341.1 1368.0 1366.71 1330.08	23 Front Par Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm)	Size: Note b g g : 0	C-5 Avg. Vel. (ft/sec) 1343.3 1344.0 1344.8 1374.5 1350.0 1363.6 (Pass)	Back Pa Perf (Y=1/N=0) 0 0 0 0 0 0	fest Ve Shot-to Innel BFS (mm)	locity: -Edge:	1340 3 Sample Avg. Vel. (ft/sec) 1379.0 1353.5 1365.5 1374.5 1384.2 1388.4	± 30 ft/s inches 24 Front Par Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BFS (mm) 30 30 30 30 30 30 30 30 30 30 30 30 30	Size: Note 9 9	C-1 Avg. Vel. (ft/sec) 1315.8 1352.8 1343.6 1322.2 1361.2 1330.2 (Pass)	Back Pa Perf (Y=1/N=0) 0 0 0 0 0	(mel BFS (mm) 38 3 38 4 38 4 30 5	Note
Shot Number 1 2 3 4 5 6 7 8	Sample Avg. Vel. (ft/sec) 1339.7 1353.4 1342.7 1341.1 1368.0 1366.71 1330.08	23 Front Par Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm)	Size: Note b g g : 0	C-5 Avg. Vel. (ft/sec) 1343.3 1344.0 1344.8 1374.5 1350.0 1363.6 (Pass)	Back Pa Perf (Y=1/N=0) 0 0 0 0 0 0 0	fest Ve Shot-to Innel BFS (mm)	locity: -Edge: Note	1340 3 Sample (ft/sec) 1379.0 1353.5 1365.5 1374.5 1384.2 1388.4 1346.47	± 30 ft/s inches 24 Front Par Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BFS (mm) 30 30 30 30 30 30 30 30 30 30 30 30 30	Size: Note 9 9	C-1 Avg. Vel. (ft/sec) 1315.8 1352.8 1343.6 1322.2 1361.2 1330.2 (Pass)	Back Pa Perf (Y=1/N=0) 0 0 0 0 0 0 0 0	(mel BFS (mm) 38 3 38 4 38 4 30 5	Note
Shot Number 1 2 3 4 5 6 7 8	Sample Avg. Vel. (ft/sec) 1339.7 1353.4 1342.7 1341.1 1368.0 1366.71 1330.08 ry:	23 Front Pa Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm)	Size: Note b g g : 0	C-5 Avg. Vel. (ft/sec) 1343.3 1344.0 1344.8 1374.5 1350.0 1363.6 (Pass)	Back Perf Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	fest Ve shot-to mel BFS (mm)	BFS S	1340 3 Sample (ft/sec) 1379.0 1353.5 1365.5 1365.5 1374.5 1384.2 1388.4 1346.47	± 30 ft/s inches 24 Front Par Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BFS (mm) 36 20 20 20 20 20 20 20 20 20 20 20 20 20	Size: Note 9 9	C-1 Avg. Vel. (ft/sec) 1315.8 1352.8 1343.6 1322.2 1361.2 1330.2 (Pass)	Back Pa Perf (Y=1/N=0) 0 0 0 0 0 0 0 0	(mel BFS (mm) 38 3 38 4 38 4 30 5	Note

0 This armor model meets the perforation performance requirements of NIJ Standard-0101.06 Section 7.8.8.

 Backface Signature:
 This requirement is for New armors only

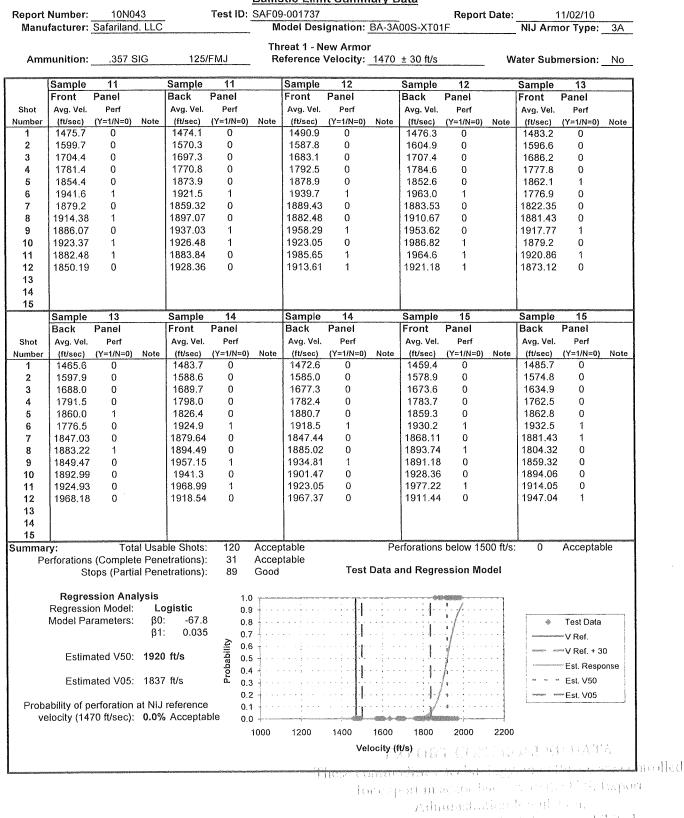
 Maximum BFS:
 43.3 mm

This armor model meets the BFS performance requirements of NIJ Standard-0101.06 Section 7.8.8 Item a.

Compliance Test Report revision 4 (2009-08-02) / R version 2.7.1 (2008-06-23) / MS Excel version 11.0 / Operating System version Windows (32-bil) NT 5.01

EXPORT CORTECALED SEATS These commodities, to its above sears in spectral enhalted for export in accordance with the CALE special Administration be substitute Diversion contrary to D.5, have a prohibited BAL Systems

Ballistic Limit Summary Data

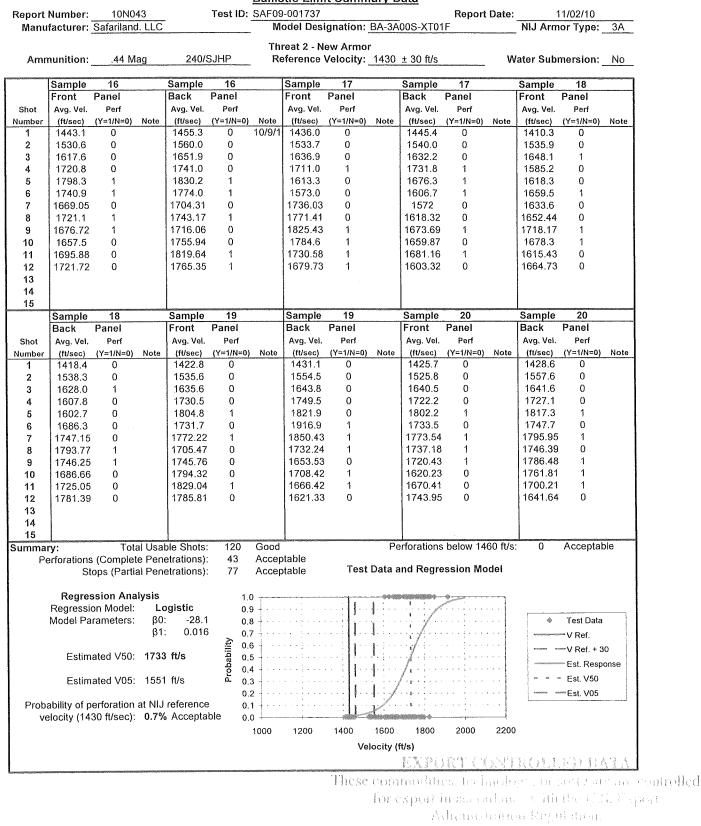


Diversion conteny to built have a prohibited.

BAESystems

NIJ Standard-0101.06 July 2008

Ballistic Limit Summary Data



Diversion contrary to a the transferred.

HAL WARNER

Ballistic Limit Summary Data

Doport	Number:	10N0	43		Test ID:				ala	Report	Date:	1	1/02/10	
		Safariland					odel Designation:	BA-3A	00S-XT0				or Type:	ЗA
mana							U							
		eat 1 - Co						A	r ا :nunition			oned Arm 240/		
	nunition:	.357 8		125/		Ma				1340			Wet:	No
Test	Velocity:	1410	± 30 π	/S	Wet:	INU	-	rest	velocity.		1 30 1	13	aact.	
	Sample	25		Sample	25]	l'anna anna anna anna anna anna anna ann	Sample	26		Sample	26	
	Front	Panel		Back	Panel				Front	Panel		Back	Panel	
Shot	Avg. Vei.	Perf		Avg. Vei.	Perf			Shot	Avg. Vel.	Perf		Avg. Vel.	Perf	
Number	(ft/sec)	(Y=1/N=0)	Note		(Y=1/N=0)	Note		Num	(ft/sec)		Note	(ft/sec)	(Y=1/N=0)	Note
1	1418.1	0		1425.5	0			1	1314.8	0		1337.7	0	
2	1533.4	0		1550.9	0			2	1383.8	0		1429.6	0	
3	1627.5	0		1647.3	0			3	1505.4	0		1643.8	0	
4	1723.4	0		1736.8	0			4	1564.5	0 1		1711.1	0	
5	1829.3	1		1840.0	1			6	1690.9	0		1784.5	0	
6	1774.2	0		1765.0	0 0			7	1663.86			1847.98		
7	1828.05			1797.58	0 1			8	1727.33			1834.13		
8	1856.67			1802.22				9	1699.25			1739.61	1	
9	1877.97			1850.01				10	1657.12			1681.79		
10	1830.03			1904.19				11	1690.77			1710.51		
11	1904.19			1851.44				12	1643.8	0		1680.95		
12 13	1840.68	0		1001.44	0			13		-				
13								14						
14								15						
Summai	I rv:						1	Sumr	nary:					
ounnunu		tal Usable	Shots	24	Acceptal	ole			То	tal Usable	Shots		Acceptat	ole
		erforation			•			1	F	Perforation	is (CP)			
			s (PP)							Stop	os (PP)	: 16		
Pe	erforations	s below 14	40 ft/s	: 0	Accepta	ble		Pe	erforation	s below 13	370 ft/s	: 0	Acceptat	ole
	Pogra	ssion Ana	alveie						Rear	ession A	nalysis	5		
		on Model:		ogistic						ion Model	-	ogistic		
		arameters:		*	ļ			1	0	arameters		48.0)	
	Muderre	a unicicito.	β1								β1	: 0.028	3	
								1						
					alay in the second s									
F			90990 -0000-0000		(Woral	Bailistic Limit Su	mman	1					

Overall Ballistic Limit Summary

Perforations below Vref + 30 ft/sec: 0 This requirement is for all Ballistic Limit tested samples - New and Conditioned This armor model meets the low perforation velocity performance requirements of NIJ Standard-0101.06 Section 7.9.5.

 Probability of perforation at the P-BFS reference velocity
 This requirement is for New armors only

 Threat 1:
 0.0%

 Threat 2:
 0.7%

 This armor model meets the estimated V05 performance requirements of NIJ Standard-0101.06 Section 7.9.5.

Compliance Test Report revision 4 (2009-08-02) / R version 2 7.1 (2008-06-23) / MS Excel version 11.0 / Operating System version Windows (32-bit) NT 5.01

EXPORT CONTROLS ON ONLA These commodities, technology of the one at controlled for caport in accordance with the Held Lepert Administratico Science and an Diversion contrary to U.S. how a prohibited, BAE Systems

Date Received: 01/27/11 Via: Fed Ex Returned Via: UPS

Test Conditions

Temperature:	75	75	۵F.	
Humidity:	32	32	%	
Clay Block No.:	6	6		
Clay Temp.:	97	97	°F.	
Drops (Avg.):	20.8	20.9	mm	
Test Spec.:	Modified/A	bbreviated	NIJ 010'	1.06
Threat Level:	Special Th	reat		
Condition [.]	New			

Record No.: BOC11005 Test Date: 01/27/11 Customer: BAE Systems

Range 2 Muzzle to Scr. 1: 5.08 ft. Screen 1 - 2: 5,73 ft. Screen 2 - Target: 5.25 ft. Midpoint to Target: 8.12 ft. Target to Witness: 0 ft. Barrel Length: 10 in. Clay Block: 5.5 in.

Condition:	New	Rents Construction of a block of the		المؤجدت ويسرك فيرك وكروك ورجاعه	an a		a the second	***	and a maintaine she have a first state of the	
Samj	ole/Test Descr	iption			Ammunit	ion Descrip	tion	Chrone	ograph	Results
Sample	Sample	Wet	0-45 Deg.	Shot	Shot	Callber	Bullet	TIME	VELOCITY	Perforation
Side	Weight (lbs.)	Dry	Angle	No.	Location		Wt./Type	5x-5	fps	BFS (mm)
Front	2.87	Wet	0	1	1	.357 Sig	125 GDHP	424.3	1350	25.69
Front	2.87	Wet	0	2	2	.357 Sig	125 GDHP	419.4	1366	27.27
Front	2.87	Wet	0	3	3	.357 Sig	125 GDHP	410.1	1397	28.86
Front	2.87	Wet	30	*4	4	.357 Sig	125 GDHP	419.5	1365	No Perforation
Front	2.87	Wet	45	*5	5	.357 Sig	125 GDHP	422.0	1357	No Perforation
Front	2.87	Wet	0	6	6	.357 Sig	125 GDHP	426.0	1345	No Perforation
									~	
									-	
Back	2.68	Wet	0	7	1	.357 Sig	125 GDHP	423.5	1353	26.47
Back	2.68	Wet	0	8	2	.357 Sig	125 GDHP	421.9	1358	27.46
Back	2.68	Wet	0	9	3	.357 Sig	125 GDHP	419.8	1364	26.40
Back	2.68	Wet	45	10	4	.357 Sig	125 GDHP	425.6	1346	No Perforation
Back	2.68	Wet	30	11	5	.357 Sig	125 GDHP	424.7	1349	No Perforation
Back	2.68	Wet	0	12	6	.357 Sig	125 GDHP	421.5	1359	No Perforation
						-			-	
									-	
									-	
									-	
									-	
This test was	performed in ac	cordance	e with the		United Sta	tes Test Lab	oratory	316-83	32-1600	Phone
	equirements an			/	7447 W. 3		-	316-83	32-1602	Fax
	istic performance				Wichita, K	S 67205	U.S.A.			
REMARKS/NO		<u></u>								

REMARKS/NOTES:

Shot location marking per NIJ 0101.06, Section 7.8.1.

Shot-to-edge distance: 2.50"

*Shot no.4 & 5 impact on seam.

**Sample tested without carrier.

Test Round Used:

Speer .357 sig 125gr GDHP (54234) @ 1375 fps.

Sample Tested:

Manufacturer:	Safariland, LLC	EXPORT CONTROLLED DATA
Model No.:	BA-3A00S-XT01F	These commodities, technology, or software are controlled
Size:	2D424067C/424016C	for export in accordance with the U.S. Export
DoM:	Dec. 2010	Administration Regulation.
Serial No.:	10226395/10226396	Diversion contrary to U.S. law is prohibited.
Lot No.:	N/A	BAE Systems

Sample Description: No sample description per customer request.

Zerger/Wilson

Date Received: 01/27/11 Fed Ex Via: Returned Via: UPS

Test Conditions

Temperature:	71	72	٩F.	
Humidity:	37	36	%	
Clay Block No .:	8	8		
Clay Temp.:	98	97	°F.	
Drops (Avg.):	17.6	17.7	mm	
Test Spec.:	Modified/Al	obreviated	NIJ 010	1.06
Threat Level:	Special Thi	reat		
Condition:	New			

Record No.: BOC11007 Test Date: 01/28/11 Customer: BAE Systems

5.50 ft.
5.73 ft.
5.25 ft.
8.12 ft.
0 ft.
4 in.
5.5 in.

Threat Level:	Special Thre	at						Clay Block:		5.5 in.
Condition:	New		- and a subscription of the set							
Samp	le/Test Descr	iption			Ammuniti	ion Descrip	Chron	ograph	Results	
Sample	Sample	Wet	0-45 Deg.	Shot	Shot	Caliber	Butlet	TIME	VELOCITY	Perforation
Side	Weight (lbs.)	Dry	Angle	No.	Location		Wt./Type	sx-5	fps	BFS (mm)
Front	2.60	Wet	0	1	1	.40 Cal	165 SXT	504.8	1135	23.64
Front	2.60	Wet	0	2	2	.40 Cal	165 SXT	507.3	1129	21.74
Front	2.60	Wet	0	3	3	.40 Cal	165 SXT	499.6	1147	21.04
Front	2.60	Wet	30	*4	4	.40 Cal	165 SXT	506.9	1130	No Perforation
Front	2.60	Wet	45	*5	5	.40 Cal	165 SXT	501.9	1141	No Perforation
Front	2.60	Wet	0	6	6	.40 Cal	165 SXT	493.8	1160	No Perforation
									-	
									-	
Back	1.95	Wet	0	7	1	.40 Cal	165 SXT	501.1	1143	24.98
Back	1.95	Wet	0	8	2	.40 Cal	165 SXT	510.8	1121	25.20
Back	1.95	Wet	0	9	3	.40 Cal	165 SXT	503.0	1139	24.31
Back	1.95	Wet	45	10	4	.40 Cal	165 SXT	500.4	1145	No Perforation
Back	1.95	Wet	30	11	5	.40 Cal	165 SXT	503.1	1139	No Perforation
Back	1.95	Wet	0	12	6	.40 Cal	165 SXT	507.4	1129	No Perforation
									-	
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									-	
This test was r	performed in ac	cordance	e with the		United Sta	tes Test Lab	oratory	316-83	32-1600	Phone
	equirements an			y	7447 W. 3	3rd St. N.	-	316-83	32-1602	Fax
	stic performance				Wichita, K	S 67205	U.S.A.			
DEMADICONIC										

REMARKS/NOTES:

Shot location marking per NIJ 0101.06, Section 7.8.1.

Shot-to-edge distance: 2.50"

*Shot no.4 & 5 impact on seam.

**Sample tested without carrier.

Test Round Used:

Win. .40 cal 165gr SXT (RA40TA) @ 1140 fps.

Sample Tested:

Sample Tester Manufacturer: Model No.: Size: DoM: Serial No.:	Safariland, LLC BA-3A00S-XT01F D444494C/363613C Dec. 2010 10226391/10226386	EXPORT CONTROLLED DATA These commodities, technology, or software are controlled for export in accordance with the U.S. Export Administration Regulation. Diversion contrary to U.S. law is prohibited.
Lot No.:	N/A	Diversion contrary to U.S. law is prohibited. BAE Systems

Sample Description: No sample description per customer request.

Nguyen/Zerger/Wilson

Date Received: 01/27/11 Via: Fed Ex Returned Via: UPS

Test Conditions

Temperature:	72	72	°F.
Humidity:	35	34	%
Clay Block No .:	8	8	
Clay Temp.:	97	96	°F.
Drops (Avg.):	17.7	17,6	mm
Test Spec.:	Modified/Al	obreviated	NIJ 0101.06
Threat Level:	Special Thi	eat	

Record No.: BOC11008 Test Date: 01/28/11 Customer: BAE Systems

Range 2 Muzzle to Scr. 1: 5.50 ft. Screen 1 - 2: 5.73 ft. Screen 2 - Target: 5.25 ft. Midpoint to Target: 8.12 ft. Target to Witness: 0 ft. Barrel Length: 4 in. Clay Block: 5.5 in.

Sample/Test Description				Ammunition Description				Chronograph		
Sample	Sample	Wet	0-45 Deg.	Shot	Shot	Caliber	Bullet	TIME	VELOCITY	Perforation
Side	Weight (lbs.)	Dry	Angle	No.	Location		Wt./Type	sx-5	fps	BFS (mm)
Front	2.24	Wet	Ó	1	1	7.62 x 25	85 FMJ	371.0	1544	21.43
Front	2.24	Wet	0	2	2	7.62 x 25	85 FMJ	369.2	1551	18.50
Front	2.24	Wet	0	3	3	7.62 x 25	85 FMJ	368.2	1556	21
Front	2.24	Wet	30	*4	4	7.62 x 25	85 FMJ	363.6	1575	No Perforation
Front	2.24	Wet	45	*5	5	7.62 x 25	85 FMJ	366.9	1561	No Perforation
Front	2.24	Wet	0	6	6	7.62 x 25	85 FMJ	373.5	1534	No Perforati
									-	
Back	1.96	Wet	0	7	1	7,62 x 25	85 FMJ	364.6	1571	21.09
Back	1.96	Wet	0	8	2	7.62 x 25	85 FMJ	365.2	1568	22.37
Back	1.96	Wet	0	9	3	7.62 x 25	85 FMJ	360.0	1591	23.89
Back	1.96	Wet	45	10	4	7.62 x 25	85 FMJ	374.8	1528	No Perforati
Back	1.96	Wet	30	11	5	7.62 x 25	85 FMJ	365.8	1566	No Perforati
Back	1.96	Wet	0	12	6	7.62 x 25	85 FMJ	364.7	1571	No Perforati
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							1		-	
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			<u> </u>		111 1 1 01		<u> </u>		-	
This test was performed in accordance with the				United States Test Laboratory				2-1600	Phone	
specification requirements and the results properly					7447 W. 3			316-83	2-1602	Fax
MARKS/NC	stic performanc	e or me l	isted sample	e .	Wichita, K	5 67205	U.S.A.			

2.50"

Shot-to-edge distance:

*Shot no.4 & 5 impact on seam. **Sample tested without carrier.

Test Round Used:

7.62 x 25 - 85gr. Tokarev Romanian @ 1530 fps.

Sample Tested:

Sample Tester	<u>l:</u>	
Manufacturer:	Safariland, LLC	
Model No.:	BA-3A00S-XT01F	
Size:	B363675C/363613C	9PL
DoM:	DEC 2010	These com
Serial No.:	10226389/10226390	for e
Lot No.:	N/A	
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Sample Description: No sample description per customer request.

Nguyen/Zerger

Date Received: 01/27/11 Via: Fed Ex Returned Via: UPS

Test Conditions

Temperature:	73	74	°F.
Humidity:	34	35	%
Clay Block No.:	6	6	
Clay Temp.:	96	95	٥F.
Drops (Avg.):	19.4	18.3	mm
Test Spec.:	Modified/At	breviated	NIJ 0101.06
Threat Level:	Special Thr	eat	
O and all the set	Moute		

Record No.: BOC11009 Test Date: 01/28/11 Customer: BAE Systems

Range 2 5.50 ft. Muzzle to Scr. 1: 5.73 ft. Screen 1 - 2: 5.25 ft. Screen 2 - Target: Midpoint to Target: 8.12 ft. 0 ft. Target to Witness: 4 in. Barrel Length: Clay Block: 5.5 in.

Condition:	New	2007 WWW.W. down concerning and	in the state of the	instant interactions.	Descare and the second s			<u>Alexan</u>		Results
Sample/Test Description					on Descrip			ograph		
Sample	Sample	Wet	0-45 Deg.	Shot	Shot	Callber	Bullet	TIME	VELOCITY	Perforation
Side	Weight (lbs.)	Dry	Angle	No.	Location		Wt./Type	sx-5	fps	BFS (mm)
Front	2.25	Wet	0	1	1	9mm	100 Frang	523.8	1094	15.34
Front	2.25	Wet	0	2	2	9mm	100 Frang	523.5	1094	13.38
Front	2.25	Wet	0	3	3	9mm	100 Frang	521.1	1099	14.47
Front	2.25	Wet	30	*4	4	9mm	100 Frang	514.9	1112	No Perforation
Front	2.25	Wet	45	*5	5	9mm	100 Frang	516.7	1109	No Perforation
Front	2.25	Wet	0	6	6	9mm	100 Frang	518.7	1104	No Perforation
TION									-	
									-	
Back	1.95	Wet	0	7	1	9mm	100 Frang	515.8	1111	14.77
Back	1.95	Wet	0	8	2	9mm	100 Frang	524.2	1093	17.62
Back	1.95	Wet	ō	9	3	9mm	100 Frang	523.6	1094	15.76
Back	1.95	Wet	45	10	4	9mm	100 Frang	518.5	1105	No Perforation
Back	1.95	Wet	30	11	5	9mm	100 Frang	527.6	1086	No Perforation
Back	1.95	Wet	õ	12	6	9mm	100 Frang	522.7	1096	No Perforation
Dack	1.50	1100	Ŭ	•	-		0		-	
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									~	
This test was	performed in ac	cordance	- with the		United Sta	tes Test La	boratory	316-8:	32-1600	Phone ·
THIS LEST Was	penonneu in ac	d the res	ults propert	v	United States Test Laboratory 7447 W. 33rd St. N.		, ,	316-8	32-1602	Fax
specification	eflect the ballistic performance of the listed sample. 7447 W. 33rd St. N. 316-832-1602 Fax 316-832-1602 Fax									
REMARKS/N			notou oump							
	marking per NI.	10101 06	Section 7	81						
Shornocation	marking per ma	10101.00	, 00000111.							

ation marking 2.50"

Shot-to-edge distance: *Shot no.4 & 5 impact on seam.

**Sample tested without carrier.

Test Round Used:

Fed 9mm 100gr Frangible (BC9NT3) @ 1100 fps.

Sample Tested:

Campie reside		[1] [7]
Manufacturer:	Safariland, LLC	
Model No.:	BA-3A00S-XT01F	These commo
Size:	B363675C/363613C	for exp
DoM:	DEC 2010	L.
Serial No.: Lot No.:	10226387/10226388	Discourse
Lot No.:	N/A	Diversi
1		

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odities, technology, or software are controll. port in accordance with the U.S. Expor-Administration Regulation. sion contrary to U.S. law is proba-**BAE** Systems

Sample Description: No sample description per customer request.

Nguyen/Zerger

Date Received:02/10/11Via:FedExReturned Via:UPS

Test Conditions

	<u>.</u>			
Temperature:	74	75	۹F.	
Humidity:	35	30	%	
Clay Block No .:	8	8		
Clay Temp.:	101	99	°F.	
Drops (Avg.):	20.4	19.9	mm	
Test Spec.:	Modified/Al	obreviated	NIJ 0101.0)6
Threat Level:	Special Th	reat		
Condition [,]	New			

Record No.: BOC11015 Test Date: 02/11/11 Customer: BAE Systems

Range 2	
Muzzle to Screen 1:	5.38 ft.
Screen 1 - 2:	5.73 ft.
Screen 2 - Target:	5.25 ft.
Midpoint to Target:	8.12 ft.
Target to Witness:	O ft.
Barrel Length:	4 in.
Clay Block:	5.5 in.

Conaliion:	INEW									an general and the second state of the
Sample/Test Description					Ammuniti	on Descrip	tion	Chron	ograph	Results
Sample	Panel	Wet	0-45 Deg.	Shot	Shot	Caliber	Bullet.	TIME	VELOCITY	Perforation
Side	Weight (lbs.)	Dry	Angle	No.	Location		Wt./Type	sx-5	fps	BFS (mm)
Front	2.60	Wet	0	1	1	9mm	127 SXT	448.2	1278	23.47
Front	2.60	Wet	0	2	2	9mm	127 SXT	454.6	1260	22.90
Front	2,60	Wet	0	3	3	9mm	127 SXT	455.8	1257	22.37
Front	2.60	Wet	30	4	4	9mm	127 SXT	456.2	1256	No Perforation
Front	2.60	Wet	45	5	5	9mm	127 SXT	461.1	1242	No Perforation
Front	2.60	Wet	0	6	6	9mm	127 SXT	456,4	1255	No Perforation
									_	
Back	2.06	Wet	0	1	1	9mm	127 SXT	456.7	1254	23.07
Back	2.06	Wet	0	2	2	9mm	127 SXT	456.5	1255	25.93
Back	2.06	Wet	0	3	3	9mm	127 SXT	448.3	1278	25.47
Back	2.06	Wet	45	4	4	9mm	127 SXT	453.9	1262	No Perforation
Back	2.06	Wet	30	5	5	9mm	127 SXT	464.7	1233	No Perforation
Back	2.06	Wet	0	6	6	9mm	127 SXT	463.5	1236	No Perforation
									-	
									-	
									•	
									-	
									**	
This test was	performed in ac	cordance	with the		United Stat	tes Test Lal	poratory	316-83	32-1600	Phone
specification r	equirements an	d the res	ults properly	Ý	7447 W. 3	3rd St. N.		316-83	32-1602	Fax
reflect the ballistic performance of the listed sample. Wichita, KS 67205 U.S.A.										
REMARKS/N	REMARKS/NOTES:									

Shot location marking per NIJ 0101.06, Section 7.8.1. Shot-to-edge distance: 2.50"

*Shot no.4 & 5 impact on seam.

**Sample tested without carrier.

Test Round Used:

Win. 9mm 127gr SXT (RA9TA) @ 1250 fps.

Sample Tested:

Manufacturer:	Safariland, LLC
Model No.:	BA-3A00S-XT01F
Size:	D444494C/444412C
DoM:	Dec. 2010
Serial No.:	10226393/10226394
Lot No.:	N/A
Serial No.:	10226393/10226394

Sample Description:

No sample description per customer request.

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Barrett/Nguyen

Safariland, LLC Dave Miller 3120 East Mission Blvd. Ontario, CA 91761

United States Test Laboratory

February 11, 2011

Dear Mr. Miller,

Per your request United States Test Laboratory performed Ballistic Resistance Testing in accordance with modified NIJ 0101.06. The testing was performed on Model BA-3A00S-XT01F. The projectiles used were 9mm 127gr. SXT. The following table represents a summary of the test results. A copy of the ballistic test report is attached for your inspection.

The test record number included in this series of test is: BOC11015

USTL. Report No.	Model	Shot 1 BFS	Shot 2 BFS	Shot 3 BFS	Shots 4-6 Penetration	Condition
BOC11015	BA-3A00S-XT01F	23.47	22.90	22.37	None	Wet
BOC11015	BA-3A00S-XT01F	23.07	25.93	25.47	None	Wet

The data presented is for the samples tested only; it does not guarantee the performance of other samples of the same or similar product. The test results do not imply endorsement by United States Test Laboratory.

The test samples are being shipped to you via UPS Ground. Should you have any questions, please feel free to call upon us.

Best regards,

Richard Mouser General Manager

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United States Test Laboratory • 7447 W. 33rd Street N. • Wichita, Kansas 67205 (316) 832-1600 • Fax (316) 832-1602 A Division of National Technical Systems



Brand	American Body Armor (ABA)
Name of Carrier	Universal AJ
Outer Shell Material	Double Cloth Nylon LiteLok [®] with Nano-Sphere Repellency
Inner Lining Material	Anti-Microbial mesh
Armor Panel Access	Exterior, Hidden Zipper (Front and Back)
Armor Suspension System	Internal Grip-Lok™ Hook and Loop
Type of Plate Pocket	Dual, External, Top Loading, 5x8, 7x9 (Front Only)
Closure Fastening System	Removable, 4- and 6-Point universal strap system
Pockets / Pouches	Not Applicable
Retention Tails	Tails - Front and Rear
Additional Features	Not Applicable
Sizes	Custom Sizes
Colors	Black, Navy, White, Olive, Tan, Brown and Gray

7/27/2011

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Rev. 7



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TECHNICAL SPECIFICATION BR01 – Type IIIA

Test Standard	NIJ Standard: 0101.06
Model	NIJ: BA-3A00S-BR01
Threat Type	IIIA
Configuration	Unstructured
Armor Material	Twaron [®] Microlaminate, Gold Shield [®] GN-2115, Horizontal and Vertical Overlapping using Geometric [®] Technology, High Impact Polypropylene Composite Curv [®] Solid Technology with Advanced Perimeter Stitching
Armor Panel Covering	2 ply, 70 Denier Textured Nylon Blockade with TPU lamination system
Areal Density [lbs/ft ²]	1.12
Thinness [inches] ASTM Standard D1777-97	0.331
New V50 – .357 SIG FMJ FN 125 gr [ft/s]	1789
Conditioned V50 – .357 SIG FMJ FN 125 gr [ft/s] 1773	
New V50 – .44 Mag JSP 240gr [ft/s] 1687	
Conditioned V50 – .44 Mag JSP 240gr [ft/s]	1701
Backface Average – .357 SIG	26.50
Backface Average – .44 Mag 34.00	
Additional Spe Tested at USTL in accordance with Modified/Abbreviated N	cial Threat Types IJ 0101.06 Standard IAW Sec 7.8.2 unless otherwise specified
 Federal 9mm 100 CQT (BC9NT3) – Test Velocity @ 	1150 fps ± 30 – No perforations
 7.62x25 85 Gr. Romanian Tokarev - Test Velocity @ Edge distance 2.25") 1530 fps \pm 30 – No perforations & IAW Section 7.8.1 Shot to
• Winchester .40 Cal 165 Gr. SXT (RA40TA) – Test V	elocity @1140 fps ±30 – No perforations
 Speer .357 Sig 125 Gr. GDHP (54234) – Test Veloc to Edge distance 2.25" 	ity @ 1375 fps \pm 30 – No Perforations & IAW Section 7.8.1 Shot
 Winchester 9 mm 127 Gr. SXT +P+ (RA9TA) – Test Shot to edge distance 2.25" 	Velocity @1250 fps ± 30 - No Perforations & IAW Section 7.8.1

30 September 2011

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	Additional Special Threat Types – continued:
•	Federal 40 S&W Tactical Bonded 155 Gr. Tactical HP (LE40T2) – Test Velocity @ 1250 ± 30 – No Perforations
•	Fragmentation:
	o 2 Gr. RCC – V50 2767 fps
	o 4 Gr. RCC – V50 2584 fps
	o 16 Gr. RCC – V50 2215 fps
	o 64 Gr. RCC – V50 1753 fps
•	Special Test Specification: Per Customer Test Protocol
	o 9mm Luger 124gr. FMJ
	o Tested DRY
	 Conditioning – HOT – Hot chamber @150 degrees F for 15-18 hrs
	 Conditioning – COLD – Cold chamber @ -20 degrees F for 15-18 hrs per
	 Conditioning – WET – Submerged in room temperature fresh water for 20-25 minutes
•	Special Test Specification: Per Customer Test Protocol
	o 9mm Luger +P+ 127gr. SXT
	o Tested DRY
•	Special Test Specification: Per Customer Test Protocol
	o .40 S&W 165gr. GDHP
	o Tested DRY
	Special Test Specification: Per Customer Test Protocol
	o Mil STD 662F - Tested on Clay
	o 2 Gr. RCC
	o 4 Gr. RCC
	o 16 Gr. RCC
	o 64 Gr. RCC

SAFARILAND.



BR01 (Type IIIA) Bid Specification

1. Scope:

The scope of this product specification provides information relating to the PROTECH[®] BR01 (Type IIIA) Model (NIJ Model # BA-3A00S-BR01) that is compliant with National Institute of Justice (NIJ) Standard 0101.06 Ballistic Resistance of Personal Body Armor for Type IIIA classification and manufactured by Safariland[™].

2. Research & Development and Manufacturing:

The manufacturer (Safariland[™]) of the armor model, as listed on the NIJ's Compliant Product List (CPL), solely performs the research, development, and manufacturing capabilities described below. Other manufacturers of armor models listed on the CPL that have outsourced similar capabilities shall be deemed as inferior.

Capabilities	Internal	Out Sourced
Soft Armor Research and Development	X	
Hard Armor Research and Development	X	
Soft and Hard Armor Ballistic, Stab and Fragmentation Testing	X	
Soft and Hard Armor Non-Destructive and Destructive Testing	X	
Carrier Research and Development	X	
Domestic Soft and Hard Armor Manufacturing Facilities	X	
Domestic and International Carrier Manufacturing Facilities	X	

3. Armor Design (Construction):

The PROTECH[®] BR01 (Type IIIA) model has the following armor design characteristics:

Feature(s)	Definition(s)	Benefit(s)
Hybrid Technology	The use of multiple types of ballistic, stab, fragmentation and blunt trauma resistant materials in an armor design.	Provides the perfect balance between blunt trauma reduction and ballistic resistance against a wide array of bullets
Woven Aramid: Teijin Twaron [®]	The use of Teijin Twaron [®] products made from Aramid fibers in various size yarns (dtex) that are woven together to form a fabric of material	Provides a high level of ballistic resistance with high impact properties, excellent thermal stability and chemical resistance. The addition of coatings and micro-laminates enhance the chemical and mechanical properties for durability in various conditions.
Uni-Directional Aramid Shield: Honeywell Gold Shield [®]	The use of products made from Aramid fibers cross-piled at a $0^{\circ} / 90^{\circ}$ orientation and impregnated with a resin matrix to form a fabric of material.	Utilizes a fiber that is 5 times the strength of steel. Provides reduction in blunt trauma, increased ballistic and fragmentation resistance, and high degree of flexibility. Cross-piled fibers increase the transfer of energy following a ballistic event.
Geometric [®] Technology (Horizontal Overlapping <i>"I-Cut"</i>)	The use of geometric shapes that are cut separately, partially overlapped by 3" and sewn back together to form the desired armor panel shape.	The Geometric Technology provides many benefits. The Horizontal Overlapping or "I-Cut" Technology provides two separate zones to isolate the affects following a ballistic event and improves multi-hit capability: (1) Additional reinforcement along the abdominal, sternum and spinal cord regions (2) decreases blunt trauma force and increases ballistic resistance (3) improves multi-hit capacity following a ballistic event.

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Armor Design (Construction) - continued: 3.

Feature(s)	Definition(s)	Benefit(s)
Geometric [®] Technology (Vertical Overlapping – <i>"L-Cut")</i>	The use of geometric shapes that are cut separately, then partially overlapped by 3" and sewn back together to form the desire armor panel shape.	The Geometric Technology provides many benefits. The Horizontal Overlapping or "L-Cut" Technology provides two separate zones to isolate the affects following a ballistic event and improves multi-hit capability: (1) Additional reinforcement along the sternum and spinal cord regions (2) decreases blunt trauma force and increases ballistic resistance (3) improves multi-hit capacity following a ballistic event.
Advanced Stitching (Single Perimeter):	The use of a single ballistic stitch pattern along the entire perimeter of the armor panel.	Provides a reinforced area along the perimeter of the armor panel for increased performance during edge shots.
Curv [®] Solid Technology – (High Strength Polypropylene)	The use of a solid piece of high strength polypropylene composite material sewn to ballistic materials within the armor design.	Provides a reinforced area across the entire armor panel for increased performance during edge shots and reduced blunt trauma. In addition, provides low impact movement and rapid impact recovery of the armor panel following a ballistic event.
Grip Loc [™] Integrated Suspension System	The use of adhesive tabs sewn to the armor panel that adheres to the interior of the cover material. In addition, Velcro [®] Hook Tabs are adhered to the exterior of the cover material for added support.	This provides an integrated suspension system that transfers the weight of the armor panel through the cover material and carrier to the shoulder straps. The suspension system prevents the armor panel from bunching at/on the bottom of the carrier and forming horizontal set wrinkles, therefore, increasing the life cycle of the ballistics and adding additional protection in a ballistic event.
Water resistant Cover with Heat Sealed Edges	The use of a Brookwood 70 Denier nylon blockade with TPU lamination system that has a hydrostatic resistance (ASTM- D 751) minimum of 120 pounds per square inch (PSI) to burst and breakaway adhesion (ASTM-D 5035) minimum of 25 pounds per inch (lbs/in). Armor panel has edges heat-sealed through a son bond process with a minimum of a .25" wide seal.	Provides a durable protective cover around the armor panels that resists environmental contaminate(s).

4. Armor Design (Ballistic Performance):

The PROTECH® BR01 (Type IIIA) has the following performance characteristics as documented through a combination of NIJ 0101.06 (ballistic resistance of personal body armor) compliance testing summary reports, Independent NIJ laboratory testing reports, and internal Safariland[™] ballistic laboratory testing reports:

Feature(s)	Data
Areal Density (lbs. per square foot)	1.12 (lbs ft ²)
Thinness (inches)	0.331 (in)
.357 SIG estimated V-50 (New) (feet per second)	1789 (fps)
.357 SIG estimated velocity with 95 % probability of stop V-05 (New) (feet per second)	1677 (fps)
.357 SIG probability of perforation at P-BFS (New) (percentage)	0.00 (%)
.357 SIG average back face signature (New) (millimeters)	26.50 (mm)
.44 Magnum estimated V50 (New) (feet per second)	1687 (fps)
.44 Magnum estimated velocity of 95% probability of stop V-05 (New) (feet per second)	1532 (fps)
.44 Magnum probability of perforation at P-BFS (New) (percentage)	0.7 (%)
.44 Magnum average back face signature (New) (millimeters)	34.00 (mm)
.357 SIG estimated V-50 (conditioned) (feet per second)	1773 (fps)
.44 Magnum estimated V-50 (conditioned) (feet per second)	1701 (fps)

30 September 2011

Rev. 2

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4. Armor Design (Ballistic Performance) – continued:

Feature(s)	Data
Independent NIJ Laboratory Special Threat Testing – 6 Shot Perforation – Backface Signature (P-BFS)	 Federal 9mm 100 CQT (BC9NT3), 7.62x25 85Gr. Romanian Tokarev, Winchester .40 Cal 165Gr. SXT (RA40TA), Speer .357 Sig 125 Gr. GDHP (54234), Winchester 9 mm 127Gr. SXT +P+(RA9TA), Federal 40 S&W Tactical Bonded 155 Gr. Tactical HP (LE40T2), Fragmentation: 2 Gr.RCC v50 2767 fps 4 Gr.RCC v50 2215 fps 64 Gr.RCC v50 21753 fps Special Test Specification: 9mm Luger 124gr. FMJ (Tested Dry) .40 S&W 165gr. GDHP (Tested Dry) Fragmentation: (Tested on Clay)
ι	 2 Gr.RCC 4 Gr.RCC 16 Gr.RCC 64 Gr.RCC

5. Availability:

The PROTECH® BR01 (Type IIIA) model is available in accordance with the NIJ Compliance Product List (CPL) as follows:

Classification(s)	Current Status
NIJ Template Size Availability	NIJ C-1 through NIJ C-5
Gender Neutral Armor Model Design Availability	Yes
Gender Specific Shape and Grade for Male(s) Availability	Yes
Gender Specific Shape and Grade for Female(s) Availability	Yes

6. Support Programs:

Classification(s)	Current Status
Warranty	5 Years
Quality Assurance Program(s)	ISO 9001 / Vest Check Program
Safety Assurance Program(s)	OHSAS 18001
Environmental Assurance Program(s)	ISO 14001
Liability Insurance	Information Available Upon Request

Rev. 2

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3 of 3



U.S. Department of Justice

Office of Justice Programs

National Institute of Justice

Washington, D.C. 20530

May 29, 2009

Scott O'Brien President Safariland, LLC 3120 East Mission Blvd Ontario, CA 91761

> Notice of Compliance with NIJ Standard-0101.06 Body Armor Model Designation: BA-3A00S-BR01 NIJ Compliance Status Expires: May 29, 2014

Dear Mr. O'Brien:

We have completed our evaluation of the body armor model identified above that was submitted to the National Institute of Justice's (NIJ's) Voluntary Body Armor Compliance Testing Program. We are pleased to inform you that the above body armor model satisfies the requirements of NIJ Standard–0101.06 and the Compliance Testing Program.

We also received your completed declaration concerning the model noted above and your agreement to participate in the conformity assessment follow-up process.

The body armor model details are listed on the NIJ Compliant Products List available at www.justnet.org/CTP.

You are now authorized to place the NIJ Statement of Compliance on the labels of this body armor model and all subsequent production units. The Statement of Compliance shall read:

"This model of armor has been determined to comply with NIJ Standard–0101.06 by the NIJ Compliance Testing Program and is listed on the NIJ Compliant Products List."

All compliance requirements, as identified by the NIJ Body Armor Compliance Testing Program Administrative Manual and the Ballistic Body Armor Applicant Package, must be maintained as long as the NIJ Statement of Compliance is displayed on this armor model's labels. If, at any time, the compliance status of this armor model is changed, the NIJ Statement of Compliance shall cease to be used as of the date of the status change.

Sincerely,

Magan

John Morgan Deputy Director for Science and Technology National Institute of Justice

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U.S. Department of Justice

Office of Justice Programs

National Institute of Justice

Washington, D.C. 20530

April 14, 2010

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Sincerely,

John & Stao

Debra Stoe Physical Scientist National Institute of Justice

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Perforation and BFS Summary Data

	Number: facturer:	09N0		and IIC		SAF09-00 Model		nation	BA-3A00	7-BR01			ort Date:	NJ Armor)/09/09	ЗA
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Amn	nunition:	,357 \$	SIG	12	5/FMJ				Armor 1470	± 30 ft/s		Ŵ	later Sub	mersion:	Yes	
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Shot	Avg. Vel.	Perf	BFS		Avg. Vel.	Perf	BFS		Avg. Vel.	Perf	BFS		Avg. Vel.	Perf	BFS	
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3	1512.9	Ő	28.0		1467.1	ŏ	28.0		1486.4	0	25.0		1401.5	0	27.0	
4	1490.0	0		g	1454.5	0			1480.3	0		9	1503.2	0	21.0	
5	1497.7	0		9	1493.8	0			1498.4	0		g	1485.2	0		
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er settentiden och tid och det för			*******	Constant of the second s	99 BAR AND AND AN AND AND					******						
	Sample	3		Size:	C-2				Sample	4		Size:	C-2			
		Front Pa				Back Pa				Front Pa				Back Pa		
Shot	Avg. Vel.	Perf	BFS	A1	Avg. Vel.	Perf	BFS	N-4	Avg. Vel.	Perf	BFS	N4 - 2	Avg. Vel.	Perf	BFS	
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3	1470.0	õ	23.0		1481.3	õ	27.0		1476.1	õ	28.0		1508.1	o	28.0	
4	1492.7	0		g	1501.6	0			1486.4	0		g	1480.3	0		
	1480.5	0		g	1491.8	0			1485.1	0			1468.0	0		
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6 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	y: Sample Avg. Vel. (ft/sec) 1438.1 1426.2 1445.1 1426.4 1445.3 1441.8 y: Sample Avg. Vel. (ft/sec) 1445.7 1403.0 1443.6 1445.8 6	Perfor Maximun Front Pa Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ag inel BFS (mm) 34.0 36.0 ations: mel BFS (mm) 33.0 36.0 ations: ations: (mm) 33.0 36.0	28.0 240 Size: Note 9 9 9 9 9 9	mm //SJHP C-5 Avg. Vel. (ft/sec) 1423.1 1440.4 1425.4 1436.4 1436.3 1425.1 (Pass) mm C-2 Avg. Vel. (ft/sec) 1427.0 1428.8 1444.0 1436.9 1454.1	Th Refere S Back Pa Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	nreat 2 nce Ve shot-to mel BFS (mm) 37.0 36.0 35.0 0 BFS o BFS (mm) 33.0 35.0	greater - New clocity: -Edge: Note BFS greater	then 44 r 1430 3 Sample Avg. Vel. (ft/sec) 1429.5 1453.2 1439.7 1420.6 1423.7 1420.6 1423.7 1427.2 Statistics: then 44 r Avg. Vel. (ft/sec) 1454.1 1442.4 1439.6 1439.6 1454.1 1442.4 1439.2 1432.2	k1: nm) <u>+ 30 ft/s</u> inches 6 Front Pa Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	1.568 nel BFs (mm) 35.0 37.0 33.0 12 1.568 nel BFs (mm) 35.0 35.0	Note 9 9 Size: Note 9	St. Dev.: /ater Sub C-5 Avg. Vel. (ft/sec) 1414.7 1434.5 1421.2 1434.5 1421.2 1434.5 1437.0 Average: St. Dev.: C-2 Avg. Vel. (ft/sec) 1431.8 1422.9 1431.8 1423.5 1430.5 1430.5	1.87 mersion: Back Parf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	mm Yes Inel BFS (mm) 36.0 31.0 36.0 36.0 31.0 32.0 32.0 31.0 32.0 32.0	Note

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Diversion contrasy to U.S. law is prohibited.

BAL Systems

Perforation and BFS Summary Data

Report	Mumbor	09N0	30		Toet ID	SAF09-00	0651					Pan	ort Date:	10	/09/09	
Report Number: Manufacturer:				nd, LLC				ation	BA-3A00	Z-BR01		Keb		VIJ Armor		34
manu	naotureit		Jaranna			•							•	10 /11101	Type:	
									ned Armo							
Amr	nunition:	357 \$	SIG	12	5/FMJ				1410			. W	ater Sub	mersion:	No	
	-				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	S	hot-to	Edge:	Contraction of the local division of the loc	inches		the Cast of Market State Capital				
	Sample	21		Size:	<u>C-5</u>				Sample	22		Size:	<u>C-2</u>			
		Front Pa				Back Pa				Front Pa				Back Pa		
Shot	Avg, Vei.		BFS		Avg. Vel.	Perf	BFS		Avg. Vel.	Perf	BFS		Avg. Vel.	Perf	BFS	
Number		(Y=1/N=0)		Note	(ft/sec)	(Y=1/N=0)	<u>(mm)</u>	Note	(ft/sec)		(mm)	Note		(Y=1/N=0)		Note
1	1412.2	0	28.5		1405.5	0			1397,3	0			1412.4	0	50.0 	
2	1399.4	0	alar Maria		1407.5 1413.4	0	22 x 22 x		1398.9 1404.7	0 0	00		1410.0	0	26.5	
3	1403.5	0		~	1387.1	0			1388.8	0	5.7	~	1419.8 1388.4	0	.33.5	
4 5	1398.5	0		9 9	1421.4	0			1421.4	0		9 g	1401.6	0		
5 6	1396.5	0		y	1390.6	0			1392.6	0		y	1401.0	0		
7	1300.3	0			1000.0	U			1002.0	0			1400.1	v		
8																
Summar	<u>ן</u> זעי	Perfor	ations	0	(Pass)			Bangnos and and and a		Perfor	ations	0	(Pass)			
oannai	<i></i>															
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Amr	nunition:		<u></u>	325	(q (*). *	Threa	t 2 - Co	locity:	1340	ivittaanuut or		19.0				
Amr	nunition: Sample		<u></u>	325)/SJHP	Threa	t 2 - Co ſest Ve	locity:	1340	ivitiventien or ± 30 ft/s inches 24	CRFS	19.0	/ater Sub	mersion:	No	
Amr	go on maaaaa taa	.44 M	lag	32 · 240)/SJHP	Threa	t 2 - Co Test Ve Shot-to	locity:	1340 3 Sample	tvinkanon or ± 30 ft/s inches	LBFS	<u>, vs c</u> N	/ater Sub	mersion: Back Pa	No	
Amr Shot	go on maaaaa taa	44 M 23 Front Pa	lag	32 · 240	C-5 Avg. Vel.	Threa	t 2 - Co Test Ve Shot-to	locity:	<u>1340</u> 3	by control br ± 30 ft/s inches 24 Front Pa Perf	CRFS	<u>, vs c</u> N	/ater Sub C-2 Avg. Vel.	mersion: Back Pa Perf	No	
Shot Number	Sample Avg. Vel. (ft/sec)	44 M 23 Front Pa Perf (Y=1/N=0)	lag inel BFS (mm)	32 · 240	C-5 Avg. Vel. (ft/sec)	Threa Threa S Back Pa Perf (Y=1/N=0)	t 2 - Co Fest Ve Shot-to Inel BFS (mm)	locity:	1340 3 Sample Avg. Vel. (ft/sec)	vitization ± 30 ft/s inches 24 Front Pa Perf (Y=1/N=0)	IDES (mm)	<u>, vs c</u> N	/ater Sub C-2 Avg, Vel. (ft/sec)	Back Pa Perf (Y=1/N=0)	No nel BFS (mm)	Note
Shot Number 1	Sample Avg. Vel. (ft/sec) 1331.0	44 M 23 Front Pa Perf (Y=1/N=0) 0	lag Inel BFS (mm)	325 240 Size:	C-5 Avg. Vel. (ft/sec) 1355.1	Threa	t 2 - Co Fest Ve Shot-to Inel BFS (mm)	locity: Edge:	1340 3 Sample Avg. Vel. (ft/sec) 1342.6	viciaetoen br ± 30 ft/s inches 24 Front Pa Perf (Y=1/N=0) 0	Inel BFS (mm)	Size:	/ater Sub C-2 Avg. Vel. (ft/sec) 1325.8	Back Pa Perf (Y=1/N=0) 0	No nel BFS (mm)	Note
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Shot <u>Number</u> 1 2 3	Sample Avg. Vel. (ft/sec) 1331.0 1336.3 1327.8	.44 M 23 Front Pa Perf (Y=1/N=0) 0 0	lag Inel BFS (mm) State State State State	324 240 Size: Note	C-5 Avg. Vel. (ft/sec) 1355.1 1340.5 1321.2	Threa 5 Back Pa Perf (Y=1/N=0) 0 0 0	t 2 - Co Fest Ve Shot-to Inel BFS (mm)	locity: Edge:	1340 3 Sample Avg. Vel. (ft/sec) 1342.6 1342.1 1372.7	Witzenten br ± 30 ft/s inches 24 Front Pa Perf (Y=1/N=0) 0 0 0 0 0	Inel BFS (mm)	W Size: Note	/ater Sub C-2 Avg. Vel. (ft/sec) 1325.8 1341.5 1361.1	Back Pa Perf (Y=1/N=0) 0 0 0	No nel BFS (mm)	Note
Shot Number 1 2 3 4	Sample Avg. Vel. (ft/sec) 1331.0 1336.3 1327.8 1318.6	44 M 23 Front Pa Perf (Y=1/N=0) 0 0 0 0	lag Inel BFS (mm) State State State State	240 Size: Note	C-5 Avg. Vel. (ft/sec) 1355.1 1340.5 1321.2 1354.2	Threa 5 Back Pa Perf (Y=1/N=0) 0 0 0 0	t 2 - Co Fest Ve Shot-to Inel BFS (mm)	locity: Edge:	1340 3 Sample Avg. Vel. (ft/sec) 1342.6 1342.1 1372.7 1366.0	Victorient t 30 ft/s inches 24 Front Pa Perf (Y=1/N=0) 0 0 0 0 0 0 0	EFS mel BFS (mm)	W W Note	/ater Sub C-2 (ft/sec) 1325.8 1341.5 1361.1 1360.2	Back Pa Perf (Y=1/N=0) 0 0 0 0	No nel BFS (mm) 248 3 244 3	Note
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Shot Number 1 2 3 4 5 6 7	Sample Avg. Vel. (ft/sec) 1331.0 1336.3 1327.8 1318.6 1312.7	44 M 23 Front Pæ Perf (Y=1/N=0) 0 0 0 0 0	lag Inel BFS (mm) State State State State	240 Size: Note	C-5 (ft/sec) 1355.1 1340.5 1321.2 1354.2 1354.2 1348.1	Threa S Back Pa Perf (Y=1/N=0) 0 0 0 0 0 0	t 2 - Co Fest Ve Shot-to Inel BFS (mm)	locity: Edge:	1340 3 Sample Avg. Vel. (ft/sec) 1342.6 1342.1 1372.7 1366.0 1361.1	Waterner br ± 30 ft/s inches 24 Front Pa Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0	EFS mel BFS (mm)	W W Note	/ater Sub C-2 (ft/sec) 1325.8 1341.5 1361.1 1360.2 1340.1	Back Pa Perf (Y=1/N=0) 0 0 0 0 0 0	No nel BFS (mm) 248 3 244 3	Note
Shot Number 1 2 3 4 5 6 7 8	Sample Avg. Vel. (ft/sec) 1331.0 1336.3 1327.8 1318.6 1312.7 1322.7	.44 M 23 Front Pa Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0	lag BFS (mm) 24.0 24.0 24.0 24.0 24.0 24.0 24.0 24.0	92	C-5 Avg. Vel. (ft/sec) 1355.1 1340.5 1321.2 1354.2 1348.1 1347.2	Threa S Back Pa Perf (Y=1/N=0) 0 0 0 0 0 0	t 2 - Co Fest Ve Shot-to Inel BFS (mm)	locity: Edge:	1340 3 Sample Avg. Vel. (ft/sec) 1342.6 1342.1 1372.7 1366.0 1361.1	Victorian br ± 30 ft/s inches 24 Front Pa Perf (Y=1/N=0) 0 0 0 0 0 0 0 0 0	CBFS mel BFS (mm) 22.5	Size: Note	Z-2 Avg. Vel. (tt/sec) 1325.8 1341.5 1361.1 1360.2 1340.1 1337.6	Back Pa Perf (Y=1/N=0) 0 0 0 0 0 0	No nel BFS (mm) 248 3 244 3	Note
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Overall P-BFS Summary

Perforations: This requirement is for all P-BFS tested samples - New and Conditioned 0 This armor model meets the perforation performance requirements of NIJ Standard-0101.06 Section 7.8.8.

Backface Signature: This requirement is for New armors only

38.0 mm Maximum BFS:

This armor model meets the BFS performance requirements of NIJ Standard-0101.06 Section 7.8.8 Item a.

Compliance Test Report revision 4 (2009-08-02) / R version 2.7.1 (2008-06-23) / MS Excel version 11.0 / Operating System version Windows (32-bit) NT 5.01

Plate West Strand Strand Strand Strand These commonline and the standard Strand Strand To experiment conduction with the table Export Administration Regulation. Diversion contrary to U.S. law is prohibited. BAE Systems

Ballistic Limit Summary Data Test ID: SAF09-000551 Report Date: **Report Number:** 09N032 10/09/09 Manufacturer: Safariland, LLC. Model Designation: BA-3A00Z-BR01 NIJ Armor Type: 3A Threat 1 - New Armor .357 SIG 125/FMJ Reference Velocity: 1470 ± 30 ft/s Ammunition: Water Submersion: No 12 Sample 11 Sample 11 12 Sample Sample Sample 13 Front Panel Back Panel Front Panel Back Panel Front Panel Avg. Vel. Avg. Vel, Shot Avg. Vel. Perf Perf Perf Avg. Vel. Perf Avg. Vel. Perf (Y=1/N=0) Note Number (ft/sec) (Y=1/N=0) Note (ft/sec) (ft/sec) (Y=1/N=0) Note (ft/sec) (Y=1/N=0) Note (ft/sec) (Y=1/N=0) Note 1422.8 Left 1425.1 1495.4 l eft 1428.6 0 0 0 1471.7 Left 1 0 0 2 1511.5 0 Left 1602.3 0 1584.9 0 Left 1642.8 0 1624.9 0 Left 1628.3 1679.9 0 1727.4 0 1680.5 1709.1 3 0 Left Left 0 0 Left 4 1776.8 0 Left 1757.5 1 1859.6 1 Left 1806.9 1 1798.9 1 Left 5 1844.2 1 Left 1643.3 0 1729.6 0 Left 1741.9 1 1717.2 0 Left 1757.8 1832.8 1690.3 6 1716.8 0 Left 0 0 Left 0 1774.6 0 Left 1734.5 1798.94 1715.69 7 1775.9 Right 0 0 Right 0 1814.21 0 Right 1 8 1801.94 0 1845.96 0 1728.06 0 Right Right 1752.7 0 1817.95 1 Right 1795.95 1810.88 1912.46 1807.57 1799.62 0 Right 9 0 Right 1 1 Right 1 1736.28 1876.31 1770.74 1836.96 Right 10 1841.09 0 0 Right Right 1 1 1 1879.88 0 Right 1776.18 0 1834.55 0 Right 1739.34 0 1827.35 0 Right 11 Right 0 Right 1845.24 0 1812.54 1798.66 1886.01 1 Right 12 1931.61 1 1 13 14 15 Sample 14 Sample 14 15 15 Sample 13 Sample Sample Back Front Panel Back Panel Front Panel Back Panel Panel Avg. Vel. Avg. Vel. Shot Avg. Vel. Perf Perf Avg. Vel. Perf Avg, Vel. Perf Perf (Y=1/N=0) Note (ft/sec) (Y=1/N=0) Note (ft/sec) (Y=1/N=0) Note (ft/sec) (Y=1/N=0) Note (ft/sec) (Y=1/N=0) Note Number (ft/sec) 0 1438.3 0 Left 1442.7 1455.1 0 Left 1519.5 0 1445.3 0 1 1537.8 0 1620.6 1609.9 0 2 1453.1 0 1582.9 0 Left 0 Left 1667.3 1675.8 1695.0 1705.0 3 1617.9 0 0 Left 0 0 Left 0 4 1610.8 0 1718.9 0 Left 1767.8 0 1744.3 0 Left 1773.0 1 1800.3 1892.2 1876.6 1748.3 5 1757.1 0 0 Left 1 1 Left 1 1816.6 0 1748.0 1592.2 0 6 1798.0 0 1902.8 0 Left 0 Left 1887.81 1938.54 Right 1857.51 0 1785.81 Right 1644.7 0 7 1 1 1 1885.27 1902.04 1742.15 Right 1717.18 0 8 1805.92 1 Right 1 0 1 1726.81 0 1826.07 0 Right 1854.32 1 1800.58 0 Right 1792.69 1 9 1865.98 1865.98 Right 1799.62 Right 1761.81 n 1761.54 1 1 10 0 1 11 1841.8 0 1822.98 1 Right 1780.04 0 1815.3 1 Right 1744.32 0 1808.54 1865.25 1785.15 0 Right 1826.76 1 1774.86 1 Right 1 12 1 13 14 15 Total Usable Shots: 120 Acceptable Perforations below 1500 ft/s: 0 Acceptable Summary: Perforations (Complete Penetrations): 38 Acceptable **Test Data and Regression Model** Stops (Partial Penetrations): 82 Good **Regression Analysis** 10 Logistic **Regression Model:** 0.9 Model Parameters: β0: -36.1 Test Data 0.8 ۲ β1: 0.020 0.7 V Ref. 0.6 Probabilit "V Ref. + 30 Estimated V50: 1820 ft/s 0.5 Est, Response 0.4 Est. V50 Estimated V05: 1671 ft/s 0.3 0.2 est, V05 Probability of perforation at NIJ reference 01 velocity (1470 ft/sec): 0.1% Acceptable 0.0 1400 2200 1000 1200 1600 1800 2000 Velocity (ft/s)

EXPORT CONTRACTOR DAT ne controlled These commoSile is obtained as a siles. In expansion second second to U.S. Experi-As municipation Reputation. Diversion conitary to U.S. has is prohibited.

BAREASIONS

Page 57 of 63

1

NATIONAL INSTITUTE OF JUSTICE COMPLIANCE TEST REPORT

Ballistic Limit Summary Data 09N032 Test ID: SAF09-000551 **Report Date:** Report Number: 10/09/09 Manufacturer: Safariland, LLC. Model Designation: BA-3A00Z-BR01 NIJ Armor Type: 3A Threat 2 - New Armor 240/SJHP Reference Velocity: 1430 ± 30 ft/s Ammunition: .44 Mag Water Submersion: No 17 Sample 16 Sample 16 Sample Sample 17 Sample 18 Front Panel Back Panel Front Panel Back Panel Front Panel Shot Avg, Vel. Avg, Vel. Perf Avg. Vel. Perf Avg. Vel. Perf Avg. Vel. Perf Perf (ft/sec) (Y=1/N=0) (ft/sec) (Y=1/N=0) Note (ft/sec) (Y=1/N=0) (ft/sec) (ft/sec) (Y=1/N=0) Number Note Note (Y=1/N=0) Note Note 1445.3 1430.5 1458.8 0 Left 0 n Left 1461.0 0 1423.2 0 Left 1512.1 0 1517.6 1547.7 0 2 1497.5 0 Left 0 Left 0 1542.6 Left 1617.9 1607.5 0 3 1582.1 0 Left 0 Left 1629.9 0 1645.8 1 Left 1628.3 0 1668.3 0 1694.7 0 1730.6 1561.1 0 4 Left Left 1 Left 5 1741.1 0 1756.9 1657 2 0 1587.3 0 1710 4 1 1 eft l eft Left 1 6 1643.9 0 Left 1806.6 1683.0 1684.5 0 1637.6 0 Left 1 1 Left 7 1681.89 Right 1743.1 1593.99 Right 1722.24 1688.78 Right 1 1 1 1 1 8 1639.99 0 Right 1677.01 1 1514.82 0 Right 1680.75 1623.77 0 Right 1 Right 9 1673 88 0 Right 1596.52 0 1595.81 0 1638.87 1 1673.04 1 Right 10 1707.05 1 Right 1658.61 1 1602.24 0 Right 1587.76 0 1638.07 1 Right 1673.53 0 1600.18 0 1640.23 0 Right 1642.48 0 1584.38 0 Right 11 Right 0 1653.01 1678.39 0 1693.47 1630.24 0 Right 12 1722.56 Right 1 Right 1 13 14 15 18 Sample 19 Sample 19 Sample 20 Sample 20 Sample Panel Front Back Panel Front Panel Back Panel Back Panel Shot Avg. Vel. Perf Avg, Vel. Perf Avg. Vel. Perf Avg. Vel. Perf Avg, Vel. Perf (ft/sec) (Y=1/N=0) Note Number l eft 1426.3 1431.6 1393.4 1435.1 0 1436.6 0 0 0 Left 0 1 2 1540.7 0 1550.3 1 Left 1528.9 0 1540.7 0 Left 1504.5 0 1478.8 1605.4 0 1625.1 1592.2 0 1646.8 0 Left Left 3 0 1 1704.9 1513.0 0 Left 1705.6 0 1527.9 0 Left 1669.6 0 4 1 5 1640.6 0 1576.6 0 Left 1801.5 1 1573.8 0 Left 1765.7 1 6 1714.8 1 1611.2 0 Left 1716.3 0 1621.3 0 Left 1698.7 1 1759.65 1631.07 1619.73 0 1661.93 Right 1666.72 Right 1 1 1 1 7 1612.3 0 Right 1720.74 1629.87 Right 1556.14 0 8 1694.07 1 1 1 1654.63 1677.21 0 1522.8 0 1605.43 9 1653.01 1 0 Right Right 1 1725.35 1709.09 1579.83 1555.85 10 1602.46 0 Right 0 0 Right 0 1 11 1636.76 0 1658.03 0 Right 1763.17 1 1604.08 0 Right 1595.81 0 1732.29 1657.46 0 1649.15 0 1703.49 0 Right 1 Right 1679.22 0 12 13 14 15 120 Perforations below 1460 ft/s: Acceptable Total Usable Shots: Good 0 Summary: Perforations (Complete Penetrations): 39 Acceptable Stops (Partial Penetrations): 81 Acceptable **Test Data and Regression Model Regression Analysis** 1.0 Regression Model: Logistic 0,9 Model Parameters: β0: -39.0 Test Data 0.8 ÷ 0.023 B1: 0.7 V Ref. 0.6 Probability ⊸V Ref. + 30 Estimated V50: 1678 ft/s 0.5 Est. Response 0.4 Estimated V05: 1551 ft/s Est. V50 0.3 0.2 ⁼Est. V05

Probability of perforation at NIJ reference velocity (1470 ft/sec): 0.3% Acceptable

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2000



1800

1200

1400

1600

Velocity (ft/s)

0.1

0.0

1000

For Test Laboratory Use

NATIONAL INSTITUTE OF JUSTICE COMPLIANCE TEST REPORT

Ballistic Limit Summary Data

Number:	09N()32		Test ID:	SAF09	9-000551			Repor	t Date:	1	0/09/09	
facturer:	Safarilan	d, LLC.		•	M	odel Designation:	BA-3A	00Z-BR01	ı İ		NIJ Arm	or Type:	ЗA
/elocity:	1410	± 30 ft	/s	. Wet:	No	-	Test	Velocity:	1340	± 30 ft	/s	Wet:	No
Sample	25		Sample	25]		Sample	26		Sample	26	
Front	Panel		Back	Panel				Front	Panel		Back	Panel	
Avg, Vel.	Perf		Avg. Vel.	Perf			Shot	Avg. Vel.	Perf		Avg. Vel.	Perf	
(ft/sec)	(Y=1/N=0)		(ft/sec)	(Y=1/N=0)	Note]	Num	(ft/sec)	(Y=1/N=0)			(Y=1/N=0)	Note
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1799.33	0	Right	1874.53	0				1698.14	1	Right	1618.63	0	
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P		• •						P		· ·			
	Stop	s (PP):	18						Stop	s (PP):	10		
forations	below 14	40 ft/s:	0	Acceptab	le		Pe	rforations	below 13	70 ft/s:	0	Acceptab	le
Roures	sion An	alvsis						Reare	ssion A	alvsis			
			aistic				1						
		β0:	-32.1							β0:	-53.0		
	acturer: Thr unition: /elocity: Sample Front Avg. Vel. (ft/sec) 1390.6 1472.8 1607.0 1731.7 1796.9 1710.9 1710.9 1710.9 1710.9 1710.9 1754.63 1770.74 1888.87 1799.33 /: Tot Forations Regression	acturer: Safarilan Threat 1 - Co unition: .357 /elocity: 1410 Sample 25 Front Panel Avg. Vel. Perf (ft/sec) (Y=1/N=0) 1390.6 0 1472.8 0 1607.0 0 1472.8 0 1607.0 0 1731.7 0 1796.9 1 1710.9 0 1780.04 1 1754.63 0 1770.74 0 1849.41 0 1888.87 1 1799.33 0 // Total Usable Perforation Stop forations below 14 Regression Model:	acturer: Safariland, LLC. Threat 1 - Condition unition: .357 SIG /elocity: 1410 ± 30 ft Sample 25 Front Panel Avg. Vel. Perf (ft/sec) (Y=1/N=0) Note 1390.6 0 Left 1472.8 0 Left 1707.0 0 Left 1731.7 0 Left 1780.04 1 Right 17454.63 0 Right 1770.74 0 Right 1788.8.7 1 Right 1799.33 0 Right 1799.33 0 Right 7/2 Total Usable Shots: Perforations (CP): Stops (PP): Stops (PP): Stops (PP): forations below 1440 ft/s: Regression Analysis Regression Model: Lo	acturer: Safariland, LLC. Threat 1 - Conditioned Armounition: .357 SIG 125. /elocity: 1410 ± 30 ft/s Sample 25 Sample Peront Panel Back Avg. Vel. Perf Avg. Vel. (ft/sec) (Y=1/N=0) Note (ft/sec) 1390.6 0 Left 1388.4 1472.8 0 Left 1488.6 1607.0 0 Left 1726.8 1796.9 1 Left 1788.64 1754.63 0 Right 1818.64 1754.63 0 Right 1757.11 1770.74 0 Right 1874.53 1888.87 1 Right 1874.53 1799.33 0 Right 1874.53 1799.33 0 Right 1874.53 forations below 1440 ft/s: 0 0 Regression Analysis Regression Model: Logi	acturer: Safariland, LLC. Threat 1 - Conditioned Armorunition: .357 SIG 125/FMJ /elocity: 1410 ± 30 ft/s Wet: Sample 25 Sample 25 Front Panel Back Panel Avg. Vel. Perf Avg. Vel. Perf (ft/sec) (Y=1/N=0) Note (ft/sec) (Y=1/N=0) 1390.6 0 Left 1388.4 0 1472.8 0 Left 1488.6 0 1607.0 0 Left 1726.8 0 1731.7 0 Left 1747.9 0 1796.9 1 Left 1841.1 1 1710.9 0 Left 1754.9 0 1780.04 1 Right 1818.64 1 1770.74 0 Right 17475.86 0 1888.87 1 Right 1817.26 0 1799.33 0 Right 1	acturer: Safariland, LLC.MThreat 1 - Conditioned Armorunition:	acturer: Safariland, LLC. Model Designation: Threat 1 - Conditioned Armor unition:	acturer: Safariland, LLC. Model Designation: BA-3A Threat 1 - Conditioned Armor unition: $.357 SIG$ 125/FMJ Armor felocity: $1410 \pm 30 ft/s$ Wet: No Test Sample 25 Sample 25 Front Panel Back Panel Avg. Vel. Perf (tt/sec) ($Y=1/N=0$) Note (ft/sec) ($T=1/N=0$) Note 1 1390.6 0 Left 1488.6 0 1 1472.8 0 Left 1488.6 0 1 1472.8 0 Left 1726.8 0 4 1796.9 1 Left 1841.1 1 1710.9 0 Left 1754.9 0 1780.04 1 Right 1818.64 1 17754.63 0 Right 1757.11 1 1770.74 0 Right 1689.68 0 1849.41 0 Right 1745.86 0 1888.87 1 Right 1817.26 0 1188.887 1 Right 1817.26 0 1199.33 0 Right 1874.53 0 12 13 14 15 7: Total Usable Shots: 24 Acceptable Perforations (CP): 6 Stops (PP): 18 forations below 1440 ft/s: 0 Acceptable Perforations (CP): 6 Stops (PP): 18 Regression Model: Logistic Model Parameters: β 0: -32.1	Safariland, LLC. Model Designation: BA-3A00Z-BR0 Threat 1 - Conditioned Armor unition: .357 SIG 125/FMJ Ammunition: /elocity: 1410 ± 30 ft/s Wet: No Test Velocity: Sample 25 Sample 25 Front Panel Avg. Vel. Perf Avg. Vel. Perf Shot Avg. Vel. Perf 1390.6 0 Left 1388.4 0 1 1377.7 1472.8 0 Left 1886.6 0 2 1489.5 1607.0 0 Left 1766.8 0 3 1598.2 1731.7 0 Left 1754.9 0 1 125/8 1780.04 1 Right 1757.11 1 1607.0 6 1589.1 1780.44 1 Right 1757.11 1 1586.4 1 1609.08 1799.33 0 Right 1747.86 0 11 1605.38 1799.33 <td< td=""><td>Satariland, LLC. Model Designation: BA-3A002-BR01 Threat 1 - Conditioned Armor Threat 2 - C unition: </td><td>Satariland, LLC. Model Designation: BA-3A002-BR01 Threat 1 - Conditioned Armor unition: .357 SIG 125/FMJ felocity: 1410 ± 30 ft/s Wet: No Sample 25 Sample 25 Front Panel Back Panel Avg. vel. Avg. vel. Perf Avg. vel. Perf (ft/sec) (Y=1/N=0) Note Front Panel 1390.6 0 Left 1388.4 0 1472.8 0 Left 1488.6 0 1607.0 0 Left 1726.8 0 1780.04 1 Right 188.64 1 1770.9 0 Left 1745.9 0 1780.04 1 Right 188.64 1 1799.33 0 Right 189.68 0 1888.87 1 Right 1874.53 0 rt Total Usable Shots: 24 Acceptable Perforations (CP):</td><td>Satariland, LLC. Model Designation: BA-3A002-BR01 NIJ Arm Threat 1 - Conditioned Armor Intreat 2 - Conditioned Armor Threat 2 - Conditioned Arm unition: .357 SIG 125/FMJ Threat 2 - Conditioned Arm (elocity: .1410 ± 30 ft/s Wet: No Sample 25 Sample 26 Sample 25 Sample 26 Sample Back Panel Avg. Vel. Avg. Vel. Perf Avg. Vel. Perf (tt/sec) (Y=1/N=0) Note (ft/sec) (Y=1/N=0) 1390.6 Left 1388.4 0 1 1377.7 0 Left 1336.4 1 1 1377.7 0 Left 1458.6 2 1 489.5 0 Left 1566.0 0 Left 1567.2 1 1377.7 0 Left 1563.3 1710.9 Left 1754.9 0 1 1564.77 Right 1602.6 1770.74 Right</td><td>Satariland, LLC. Model Designation: BA-3A00Z-BR01 NIJ Armor Type: Threat 1 - Conditioned Armor unition: 357 SIG 125/FMJ Threat 2 - Conditioned Armor somple 26 125/FMJ Wet: No Sample 25 Sample 26 Sample 26 Front Panel Back Panel Wet: Wet: Wet: 1390.6 0 Left 1388.4 0 1472.8 0 Left 1388.4 0 1472.8 0 Left 1726.9 0 Left 1386.6 0 1731.7 0 Left 184.1 1 5 1566.0 Left 1457.4 0 1780.04 Right 1757.11 1 16 1583.1 Left 1565.3 1 1799.33 Right 1775.7.1 1 16 1588.1 Right 1560.2 1 1799.33 Right 174.53 0 11 1660.5.8 1<!--</td--></td></td<>	Satariland, LLC. Model Designation: BA-3A002-BR01 Threat 1 - Conditioned Armor Threat 2 - C unition:	Satariland, LLC. Model Designation: BA-3A002-BR01 Threat 1 - Conditioned Armor unition: .357 SIG 125/FMJ felocity: 1410 ± 30 ft/s Wet: No Sample 25 Sample 25 Front Panel Back Panel Avg. vel. Avg. vel. Perf Avg. vel. Perf (ft/sec) (Y=1/N=0) Note Front Panel 1390.6 0 Left 1388.4 0 1472.8 0 Left 1488.6 0 1607.0 0 Left 1726.8 0 1780.04 1 Right 188.64 1 1770.9 0 Left 1745.9 0 1780.04 1 Right 188.64 1 1799.33 0 Right 189.68 0 1888.87 1 Right 1874.53 0 rt Total Usable Shots: 24 Acceptable Perforations (CP):	Satariland, LLC. Model Designation: BA-3A002-BR01 NIJ Arm Threat 1 - Conditioned Armor Intreat 2 - Conditioned Armor Threat 2 - Conditioned Arm unition: .357 SIG 125/FMJ Threat 2 - Conditioned Arm (elocity: .1410 ± 30 ft/s Wet: No Sample 25 Sample 26 Sample 25 Sample 26 Sample Back Panel Avg. Vel. Avg. Vel. Perf Avg. Vel. Perf (tt/sec) (Y=1/N=0) Note (ft/sec) (Y=1/N=0) 1390.6 Left 1388.4 0 1 1377.7 0 Left 1336.4 1 1 1377.7 0 Left 1458.6 2 1 489.5 0 Left 1566.0 0 Left 1567.2 1 1377.7 0 Left 1563.3 1710.9 Left 1754.9 0 1 1564.77 Right 1602.6 1770.74 Right	Satariland, LLC. Model Designation: BA-3A00Z-BR01 NIJ Armor Type: Threat 1 - Conditioned Armor unition: 357 SIG 125/FMJ Threat 2 - Conditioned Armor somple 26 125/FMJ Wet: No Sample 25 Sample 26 Sample 26 Front Panel Back Panel Wet: Wet: Wet: 1390.6 0 Left 1388.4 0 1472.8 0 Left 1388.4 0 1472.8 0 Left 1726.9 0 Left 1386.6 0 1731.7 0 Left 184.1 1 5 1566.0 Left 1457.4 0 1780.04 Right 1757.11 1 16 1583.1 Left 1565.3 1 1799.33 Right 1775.7.1 1 16 1588.1 Right 1560.2 1 1799.33 Right 174.53 0 11 1660.5.8 1 </td

Overall Ballistic Limit Summary

 Perforations below Vref + 30 ft/sec:
 0
 This requirement is for all Ballistic Limit tested samples - New and Conditioned

 This armor model meets the low perforation velocity performance requirements of NIJ Standard-0101.06 Section 7.9.5.

 Probability of perforation at the P-BFS reference velocity
 This requirement is for New armors only

 Threat 1:
 0.1%

 Threat 2:
 0.3%

This armor model meets the estimated V05 performance requirements of NIJ Standard-0101.06 Section 7.9.5.

Compliance Test Report revision 4 (2009-08-02) / R version 2.7.1 (2008-06-23) / MS Excel version 11.0 / Operating System version Windows (32-bit) NT 5.01

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Backface Signature Worksheet New Armor

Date: 9/15/09

Record #: 09N032

Test ID: SAF09-000551

Model: BA-3A00Z-BR01

Level: IIIA

EXPORT CONTROLLED DATA

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	#1	#2	#3
Panel 1	28	31	28
Panel 2	27	23	28
Panel 3	26	30	25
Panel 4	26	23	27
Panel 5	28	28	23
Panel 6	28	24	27
Panel 7	27	27	28
Panel 8	28	24	28
Panel 9	38	34	36
Panel 10	37	36	35
Panel 11	35	37	33
Panel 12	36	31	36
Panel 13	33	33	36
Panel 14	33	35	32
Panel 15	37.	35	29
Panel 16	32	31	32

BFS Checked By:____

2....

Form WCH 2.1, Revision 2

Backface Signature Worksheet Conditioned Armor

Date: 10/8/69

Record #: 09N032

Test ID: SAF09-000551

Model: BA-3A00Z-BR01

Level: IIIA

	#1	#2	#3
Panel 41	28	22	32
Panel 42	24	32	31
Panel 43	29	26	3.3
Panel 44	30	26	28
Panel 45	37	30	40
Panel 46	40	32	39
Panel 47	38	36	40
Panel 48	38	34	36

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BFS Checked By: _____

Date Received:05/17/10Via:Fed ExReturned Via:UPS

Test Conditions

Temperature:	73	°F.
Humidity:	53	%
Clay Block No.:	9	×
Clay Temp.:	97	°F.
Drops (Avg.):	18.8	mm
Test Spec.:	Modified/	Abbreviated NIJ 0101.06
Threat Level:	N/A	

Record No: BAE10883 Test Date: 05/24/10 Customer: Safariland, LLC

<u>Range 2</u>	
Muzzle to Scr. 1:	5.66 ft.
Screen 1 - 2:	5.73 ft.
Screen 2 - Target:	4.66 ft.
Midpoint to Target:	7.53 ft.
Target to Witness:	0 ft.
Barrel Length:	4 in.
Clay Block:	5.5 in.

Samn	le/Test Desci	ription		99999999999999999999999999999999999999	Ammuniti	on Descript	ion	Chron	ograph	Results
Sample	Sample	Wet	0-45 Deg.	Shot	Shot	Caliber	Bullet	TIME	VELOCITY	Perforation
Side	Weight (lb.)	Dry	Angle	No.	Location		Wt./Type	sx-5	íps	BFS (mm)
Back	2.74	Wet	0	1	1	357 Sig	125 GDHP	420.3	1363	24
Back	2.74	Wet	0	2	2	357 Sig	125 GDHP	417.7	1371	25
Back	2.74	Wet	0	3	3	357 Sig	125 GDHP	414.5	1382	27
Back	2.74	Wet	30	4	4	357 Sig	125 GDHP	410.1	1397	No Perforatio
Back	2.74	Wet	45	5	5	357 Sig	125 GDHP	414.0	1384	No Perforatio
Back	2.74	Wet	0	6	6	357 Sig	125 GDHP	417.3	1373	No Perforatio
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lect the bal	listic performar	ice of the	e nsteu sam	pia.		0 01200	0.0.0			

REMARKS/NOTES:

*Sample conditioned per N.I.J. 0101.06 Sec. 7.8.2.

**Projectiles provided by customer.

Ammunition:

Speer 357 Sig 125gr. GDHP (54234) @1375 fps (+/-30).

Sample Tested:

And and the second s	
Model No.:	BA-3A00Z-BR01
Size:	LRRC
Size: DoM: Serial No.:	APR 2010
Serial No.:	10056637
Lot No.:	017273

EXPORT CONTROLLED DATA

These commodities, technology, or software are controlled for export in accordance with the U.S. Export Administration Regulation. Diversion contrary to U.S. law is prohibited. BAE Systems

Lutz/Nold/Zerger

Date Received: 05/17/10 Via: Fed Ex Returned Via: UPS

Test Conditions

Temperature:	72	°F.
Humidity:	47	%
Clay Block No.:	9	
Clay Temp.:	98	°F.
Drops (Avg.):	20	mm
Test Spec.:	Modified//	Abbreviated NIJ 0101.06
Threat Level:	N/A	

Record No: BAE10884 Test Date: 05/25/10 Customer: Safariland, LLC

Range 2	
Muzzle to Scr. 1:	6.21 ft.
Screen 1 - 2:	5.73 ft.
Screen 2 - Target:	4.66 ft.
Midpoint to Target:	7.53 ft.
Target to Witness:	0 ft.
Barrel Length:	4 in.
Clay Block:	5.5 in.

Samr	le/Test Desci	ription	######################################	antona na manana ang sang sang	Ammunitio	on Descript	ion	Chron	ograph	Results
Sample	Sample	Wet	0-45 Deg.	Shot	Shot	Caliber	Bullet	TIME	VELOCITY	Perforation
Side	Weight (lb.)	Dry	Angle	No.	Location		Wt./Type	sx-5	fps	BFS (mm)
Back	2.73	Wet	0	1	1	9mm	127 SXT	453.2	1264	23
Back	2.73	Wet	0	2	2	9mm	127 SXT	448.2	1278	24
Back	2.73	Wet	0	3	3	9mm	127 SXT	452.3	1266	23
Back	2.73	Wet	30	4	4	9mm	127 SXT	461.3	1242	No Perforation
Back	2.73	Wet	45	5	5	9mm	127 SXT	453.0	1264	No Perforation
Back	2.73	Wet	0	6	6	9mm	127 SXT	449.7	1274	No Perforation
Dauk	2.15	**0(v	-					-	
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nis test was	performed in a	ccordan	ce with the	du a	7447 W. 3		Solutory		32-1602	Fax
ecification i	requirements a	na ine re	suits proper	uy No	Wichita, K		U.S.A.	010 0		
lect the ba	listic performar	nce of the	e listed sam	pie.	Ivvionita, N	0 01200	0.0.7.			*****

REMARKS/NOTES:

*Sample conditioned per N.I.J. 0101.06 Sec. 7.8.2.

**Projectiles provided by customer.

Ammunition:

Winchester 9mm 127gr, SXT +P+ (RA9TA) @1250 fps (+/-30).

Sample Tested:

1	The second s	
	Model No.:	BA-3A00Z-BR01
	Size:	LRRC
ĺ	Size: DoM:	APR 2010
	Serial No.:	10056634
	Serial No.: Lot No.:	017273

EXPORT CONTROLLED DATA

These commodities, technology, or software an controlled for export in accordance with the U.S. Export Administration Regulation. Diversion contrary to U.S. law is prohibited. BAE Systems

Date Received:05/17/10Via:Fed ExReturned Via:UPS

Test Conditions

Temperature:	75	°F.
Humidity:	41	%
Clay Block No.:	6	
Clay Temp.:	102	°F.
Drops (Avg.):	20	mm
Test Spec.:	Modified//	Abbreviated NIJ 0101.06
Threat Level:	N/A	

Record No: BAE10885 Test Date: 06/03/10 Customer: Safariland, LLC

Range 2	
Muzzle to Scr. 1:	6.21 ft.
Screen 1 - 2:	5.73 ft.
Screen 2 - Target:	4.67 ft.
Midpoint to Target:	7.54 ft.
Target to Witness:	O ft.
Barrel Length:	4 in.
Clay Block:	5.5 in.

Sample/Test Description				Cancerno anna anna an	Ammuniti	on Descripti	ion	Chron	Results	
Sample	Sample	Wet	0-45 Deg.	Shot	Shot	Caliber	Bullet	TIME	VELOCITY	Perforation
Side	Weight (lb.)	Dry	Angle	No.	Location		Wt./Type	sx-5	fps	BFS (mm)
Front	5.39	Wet	0	1	RF	.40 Cal.	165 SXT	498.3	1150	26
Front	5.39	Wet	0	2	RF	.40 Cal.	165 SXT	504.9	1134	29
Front	5.39	Wet	0	3	LF	.40 Cal.	165 SXT	499.4	1147	27
Front	5.39	Wet	30	4	Seam	.40 Cal.	165 SXT	507.7	1128	No Perforatio
Front	5.39	Wet	45	5	Seam	.40 Cal.	165 SXT	504.4	1136	No Perforatio
Front	5.39	Wet	0	6	RF	.40 Cal.	165 SXT	497.7	1151	No Perforatio
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his test was	performed in a	ccordanc	e with the		United States Test Laboratory 7447 W. 33rd St. N.				32-1600	Phone
	equirements a							316-8	32-1602	Fax
eflect the ball	istic performar	nce of the	e listed sam	ole.	Wichita, K	S 67205	U.S.A.	~~		
REMARKS/N										
	itioned per N.I		06 Sec. 7.8.	2.	Shot Loca					
*Projectiles p	rovided by cus	stomer.			RF: Right					

LF: Left Front

Ammunition:

Winchester 40 Cal. 165gr. SXT (RA40TA) @1140 fps (+/-30).

Sample Tested:

Model No.:	BA-3A00Z	-BR01
Size:	LRC	
DoM:	APR 2010	
		Right Front
Serial No.:		10056631
Weight:	2.38 lbs.	3.01 lbs.
Lot No.:	017273	

EXPORT CONTROLLED DATA

These commodities, technology, or software are controlled for export in accordance with the U.S. Export Administration Regulation. Diversion contrary to U.S. law is prohibited. BAE Systems

Date Received:05/17/10Via:Fed ExReturned Via:UPS

Test Conditions

Temperature:	75	°F,
Humidity:	45	%
Clay Block No.:	6	
Clay Temp.:	103	°F.
Drops (Avg.):	20.8	mm
Test Spec.:	Modified//	Abbreviated NIJ 0101.06
Threat Level:	N/A	

Record No: BAE10886 Test Date: 06/03/10 Customer: Safariland, LLC

Range 2	
Muzzle to Scr. 1:	6.21 ft.
Screen 1 - 2:	5.73 ft.
Screen 2 - Target:	4.67 ft.
Midpoint to Target:	7.54 ft.
Target to Witness:	0 ft.
Barrel Length:	4 in.
Clay Block:	5.5 in.

Samp	le/Test Desci	ription		280-4-00-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-	Ammuniti	on Descripti	on	Chron	ograph	Results
Sample	Sample	Wet	0-45 Deg.	Shot	Shot	Callber	Bullet	TIME	VELOCITY	Perforation
Side	Weight (lb.)	Dry	Angle	No.	Location		Wt./Type	sx-5	fps	BFS (mm)
Back	2.72	Wet	0	1	1	7.62x25	85 FMJ	378.7	1513	24
Back	2.72	Wet	0	2	2	7.62x25	85 FMJ	373.2	1535	29
Back	2.72	Wet	0	3	3	7.62x25	85 FMJ	377.6	1517	24
Back	2.72	Wet	30	4	4	7.62x25	85 FMJ	373.6	1533	No Perforation
Back	2.72	Wet	45	5	5	7.62x25	85 FMJ	378.9	1512	No Perforation
Back	2.72	Wet	0	6	6	7.62x25	85 FMJ	375.6	1525	No Perforation
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ns lest was p	equirements a	nd the re	sults nroner	lv	7447 W. 3		·····,		32-1602	Fax
ecilication re	stic performar	na na 10 10a of the	listed sam	nle	Wichita, K		U.S.A.			
			10100 3011	010.	11110/1100/11			****		

REMARKS/NOTES:

*Sample conditioned per N.I.J. 0101.06 Sec. 7.8.2.

**Projectiles provided by customer.

Ammunition:

7.62x25 85 gr, Tokarev (Romanian) @ 1530 fps (+/-30).

Sample Tested:

warmen and the second s	
Model No.:	BA-3A00Z-BR01
Size:	LRRC
DoM:	APR 2010
Serial No.:	10056635
Lot No.:	017273

EXPORT CONTROL DO DATA

These commodities, technology or software are controlled for export in accordance, with the U.S. Export Administration Regulation. Diversion contrary to U.S. law is prohibited. BAE Systems

Date Received:05/17/10Via:Fed ExReturned Via:UPS

Test Conditions

Temperature:	72	°F.
Humidity:	59	%
Clay Block No.:	2	
Clay Temp.:	104	°F.
Drops (Avg.):	20.2	mm
Test Spec.:	Modified/	Abbreviated NIJ 0101.06
Threat Level:	N/A	

Record No: BAE10887 Test Date: 06/03/10 Customer: Safariland, LLC

Range 4	
Muzzle to Scr. 1:	6.33 ft.
Screen 1 - 2:	5.73 ft.
Screen 2 - Target:	4.92 ft.
Midpoint to Target:	7.79 ft.
Target to Witness:	0 ft.
Barrel Length:	4 in.
Clay Block:	5.5 in.

Sample/Test Description					Ammuniti	on Descript	ion	Chron	Results	
Sample	Sample	Wet	0-45 Deg.	Shot	Shot	Callber	Bullet	TIME	VELOCITY	Perforation
Side	Weight (lb.)	Dry	Angle	No.	Location		Wt./Type	sx-5	íps	BFS (mm)
Back	2.73	Wet	0	1	1	9mm	100 CQT	494.7	1158	21
Back	2.73	Wet	0	2	2	9mm	100 CQT	497.5	1151	18
Back	2.73	Wet	0	3	3	9mm	100 CQT	494.7	1158	21
Back	2.73	Wet	30	4	4	9mm	100 CQT	499,0	1148	No Perforatio
Back	2.73	Wet	45	5	5	9mm	100 CQT	500.2	1145	No Perforatio
Back	2,73	Wet	0	6	6	9mm	100 CQT	498.1	1150	No Perforatio
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necification r	equirements a	nd the re	sults proper	·ly	7447 W. 3	3rd St. N.		316-8	32-1602	Fax
flect the bal	listic performar	nce of the	e listed sam	ple.	Wichita, K	S 67205	U.S.A.			
FMARKS/N					·····					

REMARKS/NOTES:

*Sample conditioned per N.I.J. 0101.06 Sec. 7.8.2.

**Projectiles provided by customer.

Ammunition:

Federal 9mm 100gr. Close Quarters Training (BC9NT3) @ 1150 fps (+/-30).

Sample Tested:

Model No.:	BA-3A00Z-BR01
Size:	LRRC
DoM:	APR 2010
Serial No.:	10056636
Lot No.:	017273

These commodities, technology, or solve are to controlled for export in accordance with the U.S. Export Administration Regulation. Diversion contrary to U.S. law is prohibited. BAE Systems

Date Received: 05/17/10 Via: Fed Ex Returned Via: UPS

Test Conditions

Temperature:	75	۶F.
Humidity:	41	%
Clay Block No.:	8	
Clay Temp.:	102	°F.
Drops (Avg.):	20.6	mm
Test Spec.:	Modified/	Abbreviated NIJ 0101.06
Threat Level:	N/A	

Record No: BAE10891 Test Date: 06/02/10 Customer: Safariland, LLC

Range 2	
Muzzle to Scr. 1:	6.21 ft.
Screen 1 - 2:	5.73 ft.
Screen 2 - Target:	4.67 ft.
Midpoint to Target:	7.54 ft.
Target to Witness:	0 ft.
Barrel Length:	4 in
Clay Block:	5.5 in.

Samp	le/Test Desci	ription			Ammuniti	on Descripti	Chron	Results		
Sample	Sample	Wet	0-45 Deg.	Shot	Shot	Caliber	Bullet	TIME	VELOCITY	Perforation
Side	Weight (lb.)	Ðry	Angle	No.	Location		Wt./Type	5x-5	(ha	BFS (mm)
Back	2.26	Wet	0	1	1	7.62x25	85 FMJ	362.7	1579	26
Back	2.26	Wet	0	2	2	7.62x25	85 FMJ	376.6	1521	24
Back	2.26	Wet	0	3	3	7.62x25	85 FMJ	375.1	1527	27
Back	2.26	Wet	30	4	4	7.62x25	85 FMJ	376.2	1523	No Perforatio
Back	2.26	Wet	45	5	5	7 62x25	85 FMJ	374.5	1530	No Perforatio
Back	2.26	Wet	0	6	6	7.62x25	85 FMJ	380.7	1505	No Perforatio
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	equirements ar			ly .	7447 W. 3			316-8	32-1602	Fax
	istic performan				Wichita, K	S 67205	U.S.A.			
MARKSIN					1					240 C.

REMARKS/NOTES:

*Sample conditioned per N.I.J. 0101.06 Sec. 7.8.2.

**Projectiles provided by customer.

Ammunition:

7.62x25 85 gr. Tokarev (Romanian) @ 1530 fps (+/-30).

Sample Tested:

Model No.: BA-3A00S-BR01 Size: LRRC DoM: MAR 2010 Serial No.: 10050725 Lot No.: 017074

Hose commonly a first of a second
Date Received05/17/10Via:Fed ExReturned Via:UPS

Record No: BAE10892 Test Date: 06/01/10 Customer: Safariland, LLC

Test Conditions

Temperature:	- 71	u [**.
Humidity:	62	%
Clay Block No.:	2	
Clay Temp:	102	°F.
Drops (Avg.)	19.8	mm
Test Spec.:	Modified	Abbreviated NIJ 0101.06
Threat Level	N/A	

Range 4	
Muzzle to Scr. 1:	6,33 ft.
Screen 1 - 2:	5.73 ft
Screen 2 - Target:	4.92 ft
Midpoint to Target:	7,79 ft.
Target to Witness:	Q ft
Barrel Length:	4 in
Glay Block.	5.5 in.

Sample/Test Description					Ammuniti	on Descript	llon	Chronograph		Results
Sample	Sample	Wet	0-45 Deg.	Shot	Shot	Caliber	Bullet	TIME	VELOCITY	Perforation
Side	Weight (lb.)	Dry	Angle	No.	Location		Wt./fype	\$\$.5	fps	8FS (mm)
Frent	2.25	Wet	0	1	1	9mm	100 CQT	500.0	1146	17
Front	2 25	Wet	0	2	2	9mm	100 COT	496.8	1153	18
Front	2.25	Wel	0	3	3	9mm	100 CQT	486.1	1178	20
Front	2.25	Wet	30	4	4	9mm	100 CQT	492.4	1163	No Perforatio
Front	2.25	Wet	45	5	5	9mm	100 CQT	497.7	1151	No Perforatio
Front	2.25	Wet	0	6	6	9mm	100 CQT	502.3	1140	No Perforatio
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This test was	performed in a	ccordanc	e with the		United Sta	les Test Lat	poratory		32-1600	Phone
pecification r	equirements ar	nd the re	sults proper	ly	7447 W. 3	3rd St. N		316-8	32-1602	Fax
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REMARKS/N										
	litioned per N.I.	J. 0101 (06 Sec. 7.8.	2.						
	provided by cus									
, ,										
Ammunition:										
ederal 9mm	100gr. Close C) uarters	Training (BC	(5TME:	@ 1150 (ps (+/-30).				
	2									
Sample Test						20 B - 11	en e	an shi ya s		1
Audel No.	BA-3A00S-	BR01				an tel su	$(r_{1},r_{2},\ldots,r_{n},k_{n},r_{n},\ldots,r_{n},k_{n},r_{n},\ldots,r_{n},k_{n},\ldots,k_{n},k_{n},\ldots,k_{n},k_{n},\ldots,k_{n},k_{n},\ldots,k_{n},k_{n},\ldots,k_{n},k_{n},\ldots,k_{n},k_{n},\ldots,k_{n},k_{n},\ldots,k_{n},k_{n},\ldots,k_{n},k_{n},\ldots,k_{n},k_{n},\ldots,k_{n},k_{n},\ldots,k_{n},k_{n},\ldots,k_{n},k_{n},\ldots,k_{n},k_{n},\ldots,k_{n},k_{n},\ldots,k_{n},k_{n},\ldots,k_{n},k_{n},\ldots,k_{n},\ldots,k_{n},k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{n},\ldots,k_{$	х		- 1
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Size:	LRC
DoM:	MAR 2010
DoM: Serial No.:	10050728
Lot No	017074

Crawford/Wilson

Date Received:05/17/10Via:Fed ExReturned Via:UPS

Test Conditions

Temperature:	75	۴F,
Humidity:	49	%
Clay Block No.1	9	
Clay Temp.:	95	^а Е,
Drops (Avg.):	19.4	mm
Test Spec.:	Modified/	Abbreviated NIJ 0101.06
Threat Level:	N/A	

Record No: BAE10888 Test Date: 05/24/10 Customer: Safariland, LLC

Range 2	
Muzzle to Scr. 1:	5.66 ft.
Screen 1 - 2:	5.73 ft.
Screen 2 - Target:	4.66 ft.
Midpoint to Target:	7.53 ft.
Target to Witness:	0 ft.
Barrel Length:	10 in.
Clay Block:	5.5 in.

Sample/Test Description					Ammuniti	on Descript	ion	Chron	ograph	Results
Sample	Sample	Wet	0-45 Deg.	Shot	Shot	Caliber	Bullet	TIME	VELOCITY	Perforation
Side	Weight (lb.)	Dry	Angle	No,	Location		WL/Type	sx•5	lps	8FS (mm)
Front	1.98	Wet	0	1	1	357 Sig	125 GDHP	423.0	1354	23
Front	1.98	Wet	0	2	2	357 Sig	125 GDHP	415.5	1379	25
Front	1 98	Wet	0	3	3	357 Sig	125 GDHP	412.0	1390	25
Front	1.98	Wet	30	4	4	357 Sig	125 GDHP	414.1	1383	No Perforation
Front	1.98	Wet	45	5	5	357 Sig	125 GDHP	418.3	1369	No Perforation
Front	1.98	Wet	0	6	6	357 Sig	125 GDHP	417.8	1371	No Perforatio
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This test was p	performed in a	ccordanc	e with the		United Sta	tes Test Lab	oratory	316-8	32-1600	Phone
	equirements ar				7447 W. 3			316-8	32-1602	Fax
	istic performan	ice of the	listed samp	ole.	Wichita, K	<u>S 67205</u>	<u>U.S.A.</u>		17 1. 10 1. 10 1. 10 1. 10 1. 10 1. 10 1. 10 1. 10 1. 10 1. 10 1. 10 1. 10 1. 10 1. 10 1. 10 1. 10 1. 10 1. 10	7
REMARKS/NO										
	ilioned per N.I.)6 Sec. 7.8.	2.						
*Projectiles pi	rovided by cus	tomer.								
Ammunition:										
	125gr. GDHP	(54234)	@1375.fps	(+/-30)						
speer oor old	120gli Obili	(01201)	e toto ipo	(
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Sample Teste	<u>id:</u>			1	nese ood	ga data se t		a ag	5.3 4142	
Madel No.:	BA-3A00S-I	BR01			1111	공을 다 분으로		e and a	. ÷.,	
Size:	L.RC				¥ · · · *	Ados Ados		a stiga de T	いいままわり	1
DoM:	MAR 2010				3.5.1	sa na sa	101 101	A CARLESS AND	111741144	
Serial No.:	10050726				1.117	Ag 4 11 2 11 11 11 11 11	1 ALCON	(1) s		
_ot No.:	017074						g			

Date Received: 05/17/10 Via: Fed Ex Returned Via: UPS

Test Conditions

Temperature:	72	°F.
Humidity:	46	%
Clay Block No.	9	
Clay Temp.:	104	°F.
Drops (Avg.):	21	mm
Test Spec.	Modified/	Abbrevialed NIJ 0101.06
Threat Level:	N/A	

Record No: BAE10889 Test Date: 05/25/10 Customer: Safariland, LLC

Range 2	
Muzzle to Scr. 1	6.21 ft.
Screen 1 - 2:	5.73 ft.
Screen 2 - Target:	4.66 ft.
Midpoint to Target:	7.53 ft.
Target to Wilness.	O ft.
Barrel Length:	4 in
Clay Block:	5.5 in.

Sample/Test Description					Ammunitie	on Descript	Chron	Results		
Sample	Sample	Wet	0-45 Deg.	Shot	Shot	Gəliher	Bullet	TIME	VELOCITY	Perforation
Side	Weight (Ib.)	Dry	Angle	No.	Location		Wt./Type	sx-5	tps	BFS (กาก)
Back	2.27	Wet	0	1	1	9mm	127 SXT	461.3	1242	24
Back	2.27	Wet	0	2	2	9mm	127 SXT	453.5	1263	25
Back	2.27	Wet	0	3	З	9mm	127 SXT	456.1	1256	26
Back	2 27	Wet	30	4	4	9mm	127 SXT	454.1	1261	No Perforatio
Back	2 27	Wet	45	5	5	9mm	127 SXT	455.8	1257	No Perforatio
Back	2.27	Wet	0	6	6	9mm	127 SXT	447.4	1280	No Perforatio
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is test was	performed in a	ccordanc	e with the		United Sta	les Test Lat	ooratory	316-8	32-1600	Phone
	equirements a			ly	7447 W. 3		<i>,</i>	316-8	32-1602	Fax
	listic performar				Wichita, K	3 67205	U.S.A.			
MARKS/N	the property of the second						taan dalah dalam da sama kanang malang kanang malada da 1999			

REMARKS/NOTES:

*Sample conditioned per N.I.J. 0101.06 Sec. 7.8.2.

**Projectiles provided by customer.

Ammunition:

Winchester 9mm 127gr. SXT +P+ (RA9TA) @1250 fps (+/-30).

Sample Tested:

Model No.:	BA-3A00S-BR01
Size:	LRRC
DoM:	MAR 2010
Serial No.:	10050722
Size: DoM: Seríal No.: Lot No.:	017074

These communities, technology, or software are commuled for export in all ordine typic due to S. Exposit Administration Regulation Diversion contrary to U.S. Lay is prohibited BAE System.

Date Received: 05/17/10 Via: FedEx Returned Via: UPS

Test Conditions

Temperature:	75	°F.			
Humidity:	38	%			
Clay Block No.:	9				
Clay Temp.:	95	٥Ħ			
Drops (Avg.):	18.1	ກາກ			
Test Spec.:	Modified/Abbreviated NLJ 0101.06				
Threat Level:	N/A				

Record No: BAE10890 Test Date: 05/28/10 Customer: Safariland, LLC.

Range 2	
Muzzle to Scr. 1	6.21 ft
Screen 1 - 2:	5.73 ft.
Screen 2 - Target:	4.67 ft.
Midpoint to Target:	7.54 ft.
Target to Witness:	0 ft.
Barrel Length:	4 in.
Clay Block:	5.5 in.

Sample/Test Description					Ammunitie	on Descripti	Chron	Results		
Sample	Sample	Wet	0-45 Deg,	Shot	Shot	Calibor	Bullet	TIME	VELOCITY	Perforation
Side	Weight (lb.)	Dry	Angle	No.	Location		Wt./Type	9X+5	fps	BFS (mm)
Front	2.25	Wet	0	1	1	.40 Cal	165 SXT	508.6	1126	24
Front	2.25	Wet	0	2	2	.40 Cal	165 SXT	509.4	1124	23
Front	2.25	Wet	0	3	3	40 Cal	165 SXT	510.6	1122	25
Front	2.25	Wet	30	4	4	.40 Cal	165 SXT	501.8	1141	No Perforatio
Front	2.25	Wet	45	5	5	.40 Cal	165 SXT	508.6	1126	No Perforatio
Front	2.25	Wet	0	6	6	40 Cal	165 SXT	502.0	1141	No Perforatio
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is test was	performed in a	ccordanc	e with the		United Sta	les Test Lab	oratory	316-8	32-1600	Phone
	equirements ai			у	7447 W. 3	3rd St. N.		316-8	32-1602	Fax
	istic performar				Wichita, K	S 67205	U.S.A.			
MARKS/N	CONTRACTOR OF A DESCRIPTION OF A DESCRIP									

*Sample conditioned per N.I.J. 0101.06 Sec. 7.8.2.

**Projectiles provided by customer.

Ammunition:

Winchester 40 Cal. 165gr. SXT (RA40TA) @1140 fps (+/-30).

Sample Tested:

Model No.: BA-3A00S-BR01 Size: LRC DoM: MAR 2010 Serial No.: 10050729 Lot No.. 017074

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Landon/Nold

Date Received 06/25/10 Fed Ex Via. UPS Returned Via

Record No. BAE101145 06/25/10 Test Date. Customer: Safariland, LLC

Test Conditions 70 ۶F Temperature Humidity: 49 % Clay Block No. 8 ۴F 101 Clay Temp.: 20 Drops (Avg.): mm Modified/Abbreviated NIJ 0101.06 Test Spec.1 Threat Level N/A

Range 3	
Muzzle to Scr. 1	5.88 ft
Screen 1 - 2.	5 73 ft.
Screen 2 - Targel	3.83 ft.
Midpoint to Target:	670 ft.
Target to Witness.	O-ft.
Barrel Length:	14 in
Clay Block:	5.15 in

Sam	ole/Test Desci	ription	1		Ammuniti	an Descripti	on	Chron	Results	
Sample	Sample	Wet	0.45 Deg.	Shot	Shot	Caliber	Builet	TIME	VELOCITY	Perfotation
Side	Weight (lb.)	Dry	Angle	No.	Location		Wt./Type	5x-5	fps	BFS (ntm)
BR01	2.25	Wet	0	1	1	40 S&W	155/THP	461,2	1242	28
BRDI	2.25	Wet	0	2	2	40 S&W	155/THP	444.4	1289	- 30
81201	2.25	Wet	0	3	3	40 S&W	155/THP	449 1	1275	28
BR01	2.25	Wet	30	4	4	40 S&W	155/THP	452 1	1267	No Perforatio
BR01	2 25	Wel	45	5	5	40 S&W	155/THP	444.9	1287	No Perforatio
BR01	2.25	Wet	0	6	6	40 S&W	155/THP	447 0	1281	No Perforation
1011 102 1										
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	equirements ar			v	7447 W. 3				32-1602	Fax
	listic performan				Wichita, K		U.S.A	3130		
		nge of the	nateu sennij.		Ti noma, D	NUT UT BEAND AND AND AND AND AND AND AND AND AND				
EMARKS/N	VICOL									

*Sample conditioned per N.I.J. 0101.06 Sec. 7.8.2

"Projectiles provided by customer

Velocity @ 1250+/- 30 per customer request

Ammunition:

Federal, 40 S&W Tactical Bonded, 155gr/Tactical HP LE40T2

Sample Tested:

 Model No Size. DoM Serial No.	BA-3A00S-BR01
Size.	LRC
DoM	Mar 2010
Serial No.	10050727
Lat No :	017074
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Date Ri Via: Returne	eceived ed Via:	6/25/10 Fed Ex UPS			Record No Test Date Customer	BAE1011 6/28/10 BAE Syste				
Sample Manufa Size. No of F Weight Model N Serial N Serial N Lot No Threat I Conditio	cturer Plies. No Io Level	Safariland, LRRC N/A 2.27 BA-3A00S- 10050723 017074 IIIA Ambient	lbs.	<u>Threat</u> Projectile Weight: Powder: Barrel Length Obliquity: Test Spec	ctile: .40 S&W Muzzle to Scr. 1 ht: 155 THP Screen 1 - 2: er: Power Pistol Screen 2 - Targel I Length: 10 in Target to Witness uity: 0 deg Midpoint to Targe		- 2: - Target: Witness: p Target: anel.	5.96 ft 5.73 ft 5.50 ft 0 ft 8 37 ft 5 5 in clay 72 °F 49 %		
	an a	Chronograph		Chronograph	2	90998999999999999999999999999999999999	er men an ar Taur constant fals state Ministration of gen	na a na analan ang kang kanana kana kang kang kang k		Penetration
SHOT	Powder	DME	VELOCITY	TIME	VELOGITY	AVERAGE	Loss	lestroment	\$801	Complete
61e		54-5	lps	5x-\$	tps	Veldcdy (lps)			laci	Partial
1	11.0	344.6	1662	245.4	1665	1663	0	1663	n	ρ
2	11.7	342.0	1675	243,6	1677	1676	0	1676	n	p
3	13.0	328.6	1743	234.0	1746	1744	0	1744	У	p
4	14.7	304 2	1883	216.6	1886	1884	0	1884	n	C .
5	13.7	315.2	1817	224 4	1820	1819	0	1819	У	С
6	13.0	324 7	1764	231.2	1767	1765	0	1765	У	С
7	12.4	330.7	1732	235 5	1735	1733	0	1733	Ŷ	С
8	118	333.2	1719 1765	237 2 231 1	1722 1768	1721 1766	0	1721 1766	У	p
9	12.6	324.6	1705	2311	1700	1700	0 0	1700	Y	q
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eflect t	he ballis	and the second se		ults properly listed sample.	VELOCITY 1758	PARTIAL 1766	COMPLETE	RESULTS 98	MIXE	D RESULTS 33
		12 17	កាកា "F		- 2 / j	and the second sec		standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing standing sta	- John Standon - John	1
Projec	ctiles pro	vided by cus	lomer	ith section 7-6.2.	44 a.	n texpolati NA	n e soldar Mail A. Chi	alah n Regard	4 S. 104	
/50 bas Ammur		nree stops ar	nd three pe	erforations	1.)	n an sinn as				hind.
		V Tactical Bo	onded, 155	5gr/Tactical HP LE4	4072					
Vilson/	Elston									[
* HOUH!	Sau 152 (Sul 1 1									1

Date Received 07/21/09 Via: FedEx Returned Via: UPS Record No. SAF09137 Test Date: 07/24/09 Customer: Safariland, LLC.

Test Conditions

Temperature:	73	۴,
Humidity:	51	%
Clay Block No.:	1	
Clay Temp.:	105	°F.
Drops (Avg.):	20	mm
Test Spec.:	Modifled/	Abbreviated NIJ 0101.06
Threat Level:	Special T	hreat
Condition:	New	

The second se	
Muzzle to Scr. 1:	6,13 ft.
Screen 1 - 2:	5.73 ft.
Screen 2 - Target:	4 75 ft.
Midpoint to Target:	7.62 ft
Target to Witness	0 ft.
Barrel Length:	4 in.
Clay Block:	5.5 in.

Range 2

Samp	ole/Test Desc	ription			Ammuniti	on Descripti	on	Chron	ograph	Results
Sample	Sample	Wet	0+45 Deg.	Shot	Shot	Caliber	Bullet	TIME	VELOCITY	Perforation
Size	Weight (lb.)	Dry	Angle	No.	Location		Wt./Тура	sx•5	lps	8FS (mm)
G-1	1.69	Wet	0	1	1	7.62mm	85 FMJ	375.5	1525	23
C-1	1.69	Wet	0	2	2	7.62mm	85 FMJ	368.8	1553	20
C-1	1.69	Wet	0	3	3	7.62mm	85 FMJ	376,3	1522	22
C-1	1,69	Wet	30	4	4	7.62mm	85 FMJ	378.4	1514	No Perforation
C-1	1.69	Wet	45	5	5	7.62mm	85 FMJ	376.3	1522	No Perforation
C-1	1.69	Wet	0	6	6	7 62mm	85 FMJ	375.8	1524	No Perforation
· · · · · · · · · · · · · · · · · · ·	performed in ac					tes Test Labo	pratory	316-83	32-1600	Phone
	aquirements ar				7447 W. 3			316-83	32-1602	Fax
eflect the ball	istic performan	ce of the	listed samp	le.	Wichita, KS	5 67205	U.S.A.			
EMARKS/NG	DTES:									and the statement of the

Shot location marking per NIJ 0101.06, Section 7.8.1.

Shot-to-edge distance: 2.25"

Ammunition Used:

Customer requested six impacts with Romanian Tokarev 7.62mm 85 gr. FMJ @ a velocity of 1530 fps +/- 30 fps.

Sample Tested:

Model No.:	BA-3A00S-BR01
Size	C-1
DaM:	07/2009
Serial No.:	90962
Lot No.	90084
Threat Level:	IIIA

Sample Description:

Layer 1: Flex woven aramid fiber (2-ply laminated, 11x11) Layers 2, 34, 36: Flex woven aramid fiber (2-ply laminated, 22x22). Layers 3-17, 18-32: Flex aramid film. Layers 33, 35: Plastic (0.01" lhick"). These commediates according consolity of a count officifor export maccording with the U.S. Export Administration Regulation. Diversion contrary to U.S. law is prohibited.

BAE Systems

Crawford/Elston

Date Received: 07/21/09 Via: FedEx Returned Via: UPS Record No: SAF09136 Test Date: 07/24/09 Customer: Safariland, LLC

Test Conditions

Temparature:	73	oF
Humidity:	51	%
Clay Block No.:	1	
Clay Temp.:	105	°F.
Drops (Avg.):	20	nim
Test Spec.	Modified/	Abbreviated NIJ 0101.06
Threat Level:	Special T	hreat
Condition:	New	

 Range 2

 Muzzle to Scr. 1:
 6.13 ft.

 Screen 1 - 2:
 5.73 ft.

 Screen 2 - Target:
 4 75 ft.

 Midpoint to Target
 7.62 ft.

 Target to Witness:
 0 ft.

 Barrel Length:
 4 in.

 Clay Block:
 5.5 in.

Samp	le/Test Desc	ription			Ammuniti	on Descript	on	Chron	ograph	Results
Sample	Sample	Wet	0-45 Deg.	Shot	Shol	Caliber	Bullet	TIME	VELOCITY	Perforation
Size	Weight (lb.)	Dry	Angle	No.	Location		Wt./Type	5x-5	føs	BFS (mm)
C-1	1.68	Wet	0	1	1	357 SIG	125 GDHP	424.5	1349	25
C-1	1.68	Wet	0	2	2	357 SIG	125 GDHP	426.0	1345	20
C-1	1.68	Wet	0	3	3	357 SIG	125 GDHP	424 7	1349	21
C-1	1.68	Wet	30	4	4	357 SIG	125 GDHP	422.7	1355	No Perforatio
C-1	1.68	Wet	45	5	5	.357 SIG	125 GDHP	423.9	1351	No Perforatio
C-1	1.68	Wet	0	6	6	357 SIG	125 GDHP	425.4	1346	No Perforatio
									-	
his test was p	performed in ad	cordanc	e with the		United Stat	les Test Lab	oratory	316-83	32-1600	Phone
pecification re	equirements ar	nd the res	sults properl	у	7447 W. 3	3rd St. N.		316-83	32-1602	Fax
flect the ball	stic performan	ce of the	listed samp	le.	Wichita, KS	S 67205	U.S.A.			

REMARKS/NOTES:

Shot location marking per NIJ 0101,06, Section 7.8.1.

Shot-to-edge distance: 2.25"

Ammunition Used:

Customer requested six impacts with Speer .357 SIG 125 gr GDHP @ a velocity of 1375 fps +/- 30 fps.

Sample Tested:

the rest of the re		
Model No.:	BA-3A00S-BR01	$ \int_{\mathbb{R}^{2}} \int_$
Size;	C-1	
DoM.	07/2009	These commutations technology, or other are controlled
Serial No.:	90958	for export in accordance with the U.S. Export
Lot No.:	90084	Administration Regulation.
Threat Level:	IIIA	Discision contrary to U.S. has is prohibited
Sample Deno	Intion	BAE Systems

Sample Description:

Layer 1: Flex woven aramid fiber (2-ply laminated, 11x11). Layers 2, 34, 36: Flex woven aramid fiber (2-ply laminated, 22x22) Layers 3-17, 18-32: Flex aramid film. Layers 33, 35: Plastic (0.01" thick").

Crawford/Elston

Date Received: 07/21/09 Via: FedEx Returned Via: UPS

Record No: SAF09135 Test Date: 07/24/09 Customer: Safariland, LLC.

Test Conditions

Temperature:	73	of
Humid{ty:	51	%
Clay Block No.:	1	
Clay Temp.:	105	٥F.
Drops (Avg.):	20	mm
Test Spec.:	Modified/	Abbreviated NIJ 0101.06
Threat Level:	Special T	hreat
Condition:	New	

Range 2	
Muzzle to Scr. 1:	6 13 ft.
Screen 1 - 2:	5.73 ft.
Screen 2 - Target:	4.75 ft.
Midpoint to Target:	7.62 ft.
Target to Witness:	0 ft.
Barrel Length:	4 in.
Clay Block:	5.5 in.

Samp	ole/Test Desc	ription			Ammunitio	on Descript	ion	Chron	ograph	Results
Sample	Sample	Wet	0-45 Deg.	Shot	Shot	Caliber	Bullet	TIME	VELOCITY	Perforation
Size	Weight (lb.)	Dry	Angle	No.	Location		Wt./Type	sx-5	fps	BFS (mm)
C-1	1.68	Wet	0	1	1	9mm	127 SXT	456.5	1255	21
C-1	1.68	Wet	0	2	2	9mm	127 SXT	449.5	1274	20
C-1	1.68	Wet	0	3	3	9mm	127 SXT	452.1	1267	23
C-1	1.68	Wet	30	4	4	9mm	127 SXT	453.9	1262	No Perforatio
C-1	1.68	Wet	45	5	5	9mm	127 SXT	455.8	1257	No Perforatio
C-1	1.68	Wet	0	6	6	9mm	127 SXT	458.8	1248	No Perforatio
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his test was p	performed in ac	cordanc	e with the	2010-01-01-01-01-01-01-01-01-01-01-01-01-	United Stat	es Test Lab	oratory	316-83	32-1600	Phone
pecification re	equirements ar	nd the res	sults properl	у	7447 W. 33	ird St. N.		316-83	32-1602	Fax
flect the ball	istic performan	ce of the	listed samp	le.	Wichita, KS	67205	U.S.A.			
EMARKS/NO	OTES:						The flat and the Second Street			100

Shot location marking per NIJ 0101.06, Section 7.8.1.

2.25" Shot-to-edge distance:

Ammunition Used:

Customer requested six impacts with Winchester Ranger 9mm Luger +P+ 127 gr. SXT @ a velocity of 1250 fps +/- 30 fps.

Sample Tested:

Sample Tester	<u>d:</u>	第二次,除了这个话来说了这一次,这个人,这一个人,这个人,这个人,这个人,
Model No.	BA-3A00S-BR01	
Size:	C-1	These commonities, technology, or software are controlled
DoM:	07/2009	for expansion maccontinues with the U.S. Lapon
Serial No.:	90963	Administration Regulation
Lot No.:	90084	Diversion contrary to U.S. hav is prohibited.
Threat Level:	IIIA	
l		赵A社 Systems

Sample Description:

Layer 1: Flex woven aramid fiber (2-ply laminated, 11x11). Layers 2, 34, 36: Flex woven aramid fiber (2-ply laminated, 22x22). Layers 3-17, 18-32: Flex aramid film. Layers 33, 35: Plastic (0.01" thick")

Crawford/Eiston

UNITED STATES TEST LABORATORY V50 BALLISTIC LIMIT TEST DOPPLER RADAR

Date Received Via: Returned Via:	Fed Ex				Record No: Test Date: Customer:	SAF09141 7/28/09 Safariland,			
Sample Manufacturer: Size: No. of Plies: Weight: Model No.: Serial No.: Lot No.:	Safariland C-5 in. 36 5.13 lbs. BA-3A00S-BR01 90968 90084	<u>Threat</u> Projectile: Weight: Powder: Barrel Length Obliquity: Test Spec:	RCC 2gr Bullseye : 26 0 Mil-Std. (deg.	Range 3 Muzzle to Target: Target to Witness: Witness Panel: Temperature: Humidity:	11.50 0.50 2024-T3 70 45	ft. Alum. °F		
DoM:	07/2009		1948)#aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa	18 31 2 18 19 19 19 19 19 19 19 19 19 19 19 19 19					
Shot Info. SHOT Powder	Muzzle	Ve Striking	locity Info	rmation			Penetra Include	ation Results Complete	
No. Charge	Ĺp.s.	ť.ρ.s.					Shot	Partial	
1 5.5	3261	2812					<u> </u>	C	
2 5.3	3140	2714					y	р	
3 5.5	3209	2763					ý	, p	
4 5.6	3249	2800					у	c	
5 5.5	3220	2785					У	с	
6 5.3	3168	2728					У	ρ	
1 ,	erformed in accord quirements and th		rly	V50 VELOCITY	1	LOW COMPLETE		RANGE OF MIXED RESULTS	
reflect the ballis	stic performance o	f the listed sam	ple.	2767	2763	2785	98	-22	
REMARKS/NO	TES	yyyn tylendiaeth an ar ar flynn ym yr gangaer annon an arthrafarau an							
Sample secure	d using frame and	clamps,		r Soodennen Andressen	ENRR - Dimension - Dimension		r, a safi	4.5 a. 1994 -	1
V50 based on t	hree partial and th	ree complete p	enetration	IS	Adı	1111-1-2115	n Kogulut	1040.	
Layers 2, 34, 36 Layers 3-17, 18	iption: voven aramid fiber 5: Flex woven ara 3-32: Flex aramid Plastic (0.01'' thicl	mid fiber (2-ply film.			Diversion et	mirary to I BAE S	, 15 Jaw 1 ysteriis	s prohuated.	
Childers/Nguye					an a	and the second			
United States Te	st Laboratory, LLC	7447 W. 33rd N	lorth, Wicl	hita, KS	67205, Phone 316	6-832-1600,	Fax 316-83	32-1602	

UNITED STATES TEST LABORATORY V50 BALLISTIC LIMIT TEST DOPPLER RADAR

Date Received: Via: Returned Via:	Fed Ex				Record No: Test Date: Customer:	SAF09142 7/28/09 Safariland,	LLC.	
Sample Manufacturer: Size: No. of Plies: Weight: Model No.: Serial No.: Lot No.:	Safariland C-5 in. 36 5.14 lbs. BA-3A00S-BR01 90964 90084	<u>Threat</u> Projectile: Weight: Powder: Barrel Length Obliquity: Test Spec;	RCC 4gr Bullseye : 26 0 Mil-Std. 6	deg. 62F	<u>Range 3</u> Muzzle to Target: Target to Witness: Witness Panel: Temperature: Humidity:	11.50 0.50 2024-T3 70 45	ft. Alum °F	
DoM:	07/2009		ารู้จะเป็นสารเหตุกรรมการกระบบสาวสาวสาวสาวสาวสาวสาวสาวสาวสาวสาวสาวสาวส			ananakana na panananana		
Shot Info.			locity Infor	mation				tion Results
SHOT Powder	Muzzle	Striking					Include	Complete
No. Charge	ĺ.p.s	l.p.s.	an a				Shot	Parlial
1 4.4	2759	2411					n	p
2 4.7	2806	2495					n	p
3 5.0	2949 3062	2646 2761					y n	c p
4 5.3 5 5.1	2902	2595					y y	c
5 5.1 6 4,9	2877	2567					y y	c
7 4.7	2817	2525					y y	ρ
8 4.9	2863	2568					y	C
9 4.7	2856	2510					'n	ρ
10 4.9	2892	2600					у	p
This tost was r	performed in accord	dance with the		V50	HIGH	LOW	RANGE OF	RANGE OF
	equirements and th		arly	VELOCITY	PARTIAL	COMPLETE		MIXED RESULTS
1 '	stic performance o			2584	2646	2567	121	79
REMARKS/NC	the second s							
	ed using frame and	clamps.						and the second sec
V50 based on	three partial and th	iree complete p	penetration	IS			ana sa ka	$\{1,1,\dots,n\} \in \{1,\dots,n\}$
Layers 2, 34, 3 Layers 3-17, 1	tiption: woven aramid fiber 6: Flex woven ara 8-32: Flex aramid Plastic (0.01" thic	imid fiber (2-ply film				a contra y		s is probable.
Childers/Nguye	en est Laboratory, LLC	7447 W 33rd N	lorth, Wic	hita, KS	67205, Phone 310	3-832-1600,	Fax 316-8	32-1602

Date R Via: Return	eceived: ed Vía:	7/21/09 FedEx UPS			Record No: Test Date: Customer.	SAF0914 7/27/09 Safariland				
Sampli Manufa Size: No. of f Weight Model I Serial N Lot No. DoM: Conditi	facturer: Safariland C-5 in. Plies: 36 at: 5.14 lbs No.: BA-3A00S-BR01 No.: 90965 b.: 90084 07/2009		Powder. Ibs Barrel Length:		RCC 16 gr. Bullseye 28 0 Mil-Std. 662I	in. deg. F	Range 1 Muzzle to Scr. 1: Screen 1 - 2: Screen 2 - Target: Target to Witness: Midpoint to Target: Witness Panel: Temperature: Humidity:		4.63 ft. 5.73 ft. 5.60 ft. 0.50 ft. 8 47 ft. 2024-T3 Alum 75 [°] F. 46 %	
	Salt-Angeografication and a second second	Chronograph		Chronograph					urio y distriction and all a particular	Penetration
SHOT	Powder	TIME	VELOCITY	TIME	VELOCITY	AVERAGE	Loss	Instrument	SHOT	Complete
No.	0.0	5X-5	fps anna	sx-5	fps	Velocity (fps)			Incl.	Pastial
1	8.6 8.9	252.6 241.4	2268	180.0	2269	2269	143	2126	n	р
2 3	8.9 9.2	241.4	2373 2387	171.9 171.0	2376	2375	149	2225	У	р
4	9.2 9.0	240.0	2366	171.0	2389	2388	150	2237	У	С
5	9.0 8.7	242.1	2308		2368	2367	149	2218	У	С
6	9.0	249.7	2294 2355	177.9 173.2	2296	2295	144	2151	У	p
7	9.0 9.3	239.1	2395	169.5	2359	2357	148	2209	У	р
1	9.9	200.1	2390	109.0	2410	2403	151	2252	У	C
						*				
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					_					
			~		-					
			-		~	_				
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			-		-	~				
			-		-	-				
			-		~					
			7		-					
his tes	st was pe	rformed in a	ccordance	with the	V50	HIGH	LOW	RANGE OF	RAN	IGE OF
pecific	ation req	uirements ai	nd the resul	ts properly	VELOCITY	PARTIAL	COMPLETE	1	1	RESULTS
eflect ti	he ballisti	c performar	ice of the lis	sted sample.	2215	2225	2218	101		7
the second s	RKS/NOT					gandilitation				
Sample	secured	using frame	and clamp	S .						i a de la
/50 bas	sed on th	ree partial a	nd three co	mplete penetration:	3.			har en Las estas		to acedo A Vanat
								ann ker		
amnlo	Descrip	tion						o to L.S. Ì.		
		and the second se	fiber (2-nlv	laminated, 11x11).				VE System		
-				er (2-ply laminated	22x221					
		32: Flex ara								`
		lastic (0.01"								
"late Ik	(m) a)									
Iston/N		Laboratory,	7447 W 33		Wichita, KS 6		and taken a		22.00000000000000000000000000000000000	and the second se
24									6-832-1	

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Date Re Via: Returne	eceived: ed Via:	7/21/09 FedEx UPS				Record No: Test Date: Customer:	SAF0914 7/27/09 Safariland			
Size: No. of F Weight: Model N Serial N Lot No. DoM:	anufacturer: Safariland ze: C-5 in. b. of Plies: 36 eight: 5,13 lb. odel No.: BA-3A00S-BR01 erial No.: 90966 of No.: 90084		<u>Threat</u> Projectile: Weight: Powder: Barrel Leng Obliquity: Test Spec:	yth:	RCC 64 gr. Bullseye 26 0 Mil-Std. 662	in. deg. 2F	Range 1 Muzzle to Scr. 1: Screen 1 - 2: Screen 2 - Target: Target to Witness: Midpoint to Target: Witness Panel: Temperature: Humidity:		ft. ft. ft. ft. 3 Alum. °F	
Conalua	oning.	New Chronograph	1	Chronograph	2	annemistra da veren en processar para 2000 da da da	alaine faifining an	an vácha materije jegen jegen jegen konstruction a statu – Kranisti v Santa statu – Kranisti v Santa statu materi ma	nin mananan karanga karan k	Penetration
SHOT	Powder	TIME	VELOCITY	TIME	VELOCITY	AVERAGE	Loss	Instrument	SHOT	Complete
No.		sx-5	(ps	sx-5	lps	Velocity (fps)			hicl.	Partial
1	13.8	306.1	1871	218.6	1869	1870	85	1785	У	с
2	13.3	312.9	1831	223.3	1829	1830	83	1747	ÿ	p
3	13.8	306.9	1866	219.1	1864	1865	85	1781	ý	С
4	13.2	320.2	1789	227.8	1793	1791	81	1710	у	р
5	13.7	310.5	1845	221.7	1843	1844	84	1760	У	c
6	13.2	314.5	1821	224.5	1820	1820	83	1738	У	р
			-			-9				
			-		-	-				
			-		-	-				
			-		.4	**				
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			~		-	-				
specific	ation rec		ind the rea	e with the sults properly listed sampl		V60 VELOCITY 1753	HIGH PARTIAL 1747	LOW RANGE C COMPLETE RESULT 1760 75	S MIXED	IGE OF RESULTS - 13
	RKS/NO						al a anna an ann an an an an an an an an a	<u> </u>		an ann an
Sample	e secureo	t using air/hy	/draulic fra	ame and clar	mps.					1
V50 ba	sed on th	nree partial a	ind three i	complete per	netrations			hues, rectinology Haracondence &		".S. Lapud.
Layer 1 Layers Layers	2, 34, 36 3-17, 18	oven aramid	in aramid amid film.	bly laminated fiber (2-ply la	, 11x11). aminated.	22x22).	Diversi	Administration R m contrary to U S BAE Syste	. lavets (
Elston// United S		st Laboratory	LLC, 74	147 W 33rd St	N.	Wichila, KS	67205 F	Ph. 316-832-1600	Fax 316-	832-1602

Record No.: SAF09140 Date Received: 7/21/2009 Test Date: 7/27/2009 Via: FedEx Safariland, LLC UPS Customer: Returned Via: Range 1 Threat Sample 6.42 ft. Muzzle to Scr. 1: Projectile: 7 62 Tokarev Manufacturer: Safariland 5.73 ft. 85 gr. FMJ Screen 1 - 2: Weight: Size: C-1 Screen 2 - Target 4.61 ft. Powder: Bullseye 36 No. of Plies: 0.0 ft. Target to Witness: Barrel Length 4 1.69 lbs. in. Weight: 0 Midpoint to Target: 7.48 ft. Obliquity: deg. 90960 Serial No.: Witness Panel: 5.5 in clay Modified/Abbreviated Test Spec: Lot No. 90084 72 °F NIJ 0101.06 Temperature: DoM 07/2009 47 % Humidity: New Conditioning: Penetration 2 1 Chronograph Chronograph SHOT Complete VELOCITY AVERAGE Loss Instrument VELOCITY TIME TIME SHOT Powrier Partial Incl. Velocity (fps) sx-5 No lps fps 1644 248.3 1645 1644 0 n р 7.5 348.6 1643 1 1731 0 1731 1731 235.8 1732 n р 2 8.2 331.0 224.3 1821 1820 0 1820 C У 3 314.8 1820 89 Ő 1768 С 1769 1768 1767 230.9 у 4 8.6 324 1 1752 233.1 1752 17520 n р 1751 5 8.3 327.1 0 1767 231.11768 1767 п p 6 8.6 324.3 1766 229.0 1784 1783 0 1783 y р 7 8.9 321.4 1782 219.1 1864 1863 0 1863 y р 8 307.6 1862 9.2218.4 1870 18690 1869 У р 1868 9 94 306.6 1886 1886 0 С 216.51887 Y 303.9 1885 10 9.7 0 0 0 0 0 RANGE OF This test was performed in accordance with the LOW RANGE OF HIGH V50 RESULTS MIXED RESULTS specification requirements and the results properly VELOCITY PARTIAL COMPLETE 101 1768 reflect the ballistic performance of the listed sample 1832 1869 118 **REMARKS/NOTES** 101 deg. F. Clay Temp.: 2 Horizontal, 2 Vertical Straps

V50 based on three partial and three complete penetrations.

Sample Tested:

Model No.: BA-3A00S-BR01 Threat Level: IIIA

Sample Description:

Layer 1: Flex woven aramid flber (2-ply laminated, 11x11). Layers 2, 34, 36: Flex woven aramid fiber (2-ply laminated, 22x22) Layers 3-17, 18-32: Flex aramid film. Layers 33, 35: Plastic (0.01" thick").

Elston/Nold

United States Test Laboratory LLC, 7447 W 33rd St. N.

Wichita, KS 67205 Ph. 316-832-1600

500 Fax 316-832-1602

These communities - regimentary on solid and and only office for experition a condition with the ELS 1 - poin Administration Regulation Diversion contrary to U.S. law is prohibited. BAE systems

Date R Via: Returne		7/21/2009 FedEx UPS			Record No.: Test Date: Customer,	SAF09139 7/27/2009 Safariland				
Manufa Size: No. of I Weight Serial N Lot No. DoM:	No. of Plies: 36 Weight: 1.69 Serial No.: 90961 Lot No.: 90084 DoM: 07/2009 Conditioning: New		lbs.	<u>Threat</u> Projectile: Weight: Powder: Barrel Length: Obliquity: Test Spec:	357 SIG 125 GDHP Power Pisto 10 0 Modified/Ab NIJ 0101.06	in. deg. breviated	Range 1 Muzzle to Screen 1 - Screen 2 - Target to V Midpoint to Witness P Temperato Humidity:	- 2: - Target: Witness: o Target; anel:	72	- ft. - ft. - ft.
		Chronograph	1	Chronograph		2003:2020:002:0000000000000000000000000				Penetration
SHOT	Powder	TIME	VELOCITY	TIME	VELOCITY	AVERAGE	Loss	Instrument	SHOT	Complete
No.	10 6	245 0	lps 1010	5X-5	lps 1920	Velocity (fps)	a	4040	Incl.	Partial
1	10.5	315.0	1818 1748	224.4 233.7	1820 1748	1819 1748	0 0	1819 1748	y y	C
2	10.0 10.2	327.6 323.4	1748	230.4	1746	1740	0	1740	ท ก	q
3	10.2	323.4 314.1	1824	230.4	1826	1825	0	1825	n	p
	10.9	314.1	1814	224.9	1816	1815	0	1815	n	p
6	11.2	304.9	1879	217.2	1881	1880	0	1880	y	р С
7	11.0	307.1	1865	218.7	1868	1867	0	1867	, n	p
8	11.3	302.5	1894	215.5	1896	1895	0	1895	y	p
9	11.6	306.7	1868	218.4	1870	1869	0	1869	'n	p
10	11,7	293 0	1955	208.7	1957	1956	0	1956	У	p
			-		-	-	0	-		
			-		-	-	0	-		
			-		10	~	0			
			-		12	-	0			
This to		of a cost of the	-	with the	-	-	0	-		105.05
1		erformed in a		ults properly	V50 VELOCITY	HIGH PARTIAL	LOW COMPLETE	RANGE OF RESULTS		IGE OF D RESULTS
				listed sample	1887	1956	1819	137		137
	RKS/NO		nue ur me	listeu sample.	1007	1350	1013	157		1.07
Clay Te 2 Horiz *A rang	emp.: ontal, 2 \ je of rest	101 /ertical Strap	ow 125fps	could not be obtaine penetrations	ed due to high	i partial and	d low comp	lete penetra	ations.	V50
	e Tested		a complete	penetrations						
Model I		BA-3A00S-	BR01							
Threat		IIIA					1) X X X	NATURA :		9 à 1 3 L
l	Lover.	()(7)				e a testive comunications de la	arrea a le a Giù la Araela	ara sense en	\$.8597 \$. 	Aria a ch 1977 - General Angel
Sample	e Descri	ption:				- Goresia	status accor			사망가 있는 바람을 있는 것이 있는 것이 있다.
			l fiber (2-pl	y laminated, 11x11)			Adminish	ann ann Chuir 1874	a da A. Adama	- 25 - 12 S. [N HI
1 1				iber (2-ply laminated	l, 22x22).	Diverse	n contany.			
		-32: Flex ar						di System		1 - 11 - 11 - 12 - 13
Layers	33, 35: 1	Plastic (0.01	" thick").				2,2 ; ·	an a sur porta de la dela de la dela dela dela dela d		
Elston/	Nold									
United S	States Tes	I Laboratory	LLC, 744	17 W 33rd St. N.	Wichita, KS	67205 Pl	1. 316-832-1	600 Fax	316-83	2-1602

Date Received:7/21/2009Via:FedExReturned Via:UPS

Record No.: SAF09138 Test Date: 7/27/2009 Customer: Safariland, LLC.

<u>Sampl</u> Manufa Size: No. of I	acturer: Plies:	Safariland C-1 36		<u>Threat</u> Projectile: Weight: Powder:	9mm 127 SXT Power Pisto		Range 1 Muzzle to Screen 1 Screen 2	- 2: - Target:	5.63 5.73 4.61	i ft. ft.
Weight		1.69	lbs.	Barrel Length:	14	in.	Target to		0.0	
Serial N		90959		Obliquity	0	deg.	Midpoint t	U .	7.48	
Lot No.		90084		Test Spec:	Modified/Ab		Witness F			in clay
DoM:		07/2009			NIJ 0101 06)	Temperal	ure:		٩F
Conditi	oning.	New		an a			Humidity:	nin and a subscription of the s	47	%
0007	<u> </u>	Chronograph		Chronograph						Penetration
SHOT	Powder	TIME	VELOCITY	TIME	VELOCITY	AVERAGE	Loss	Instrument	SHOT	Complete
No	0.0	040.0	fps 4070	sx-5	1ps 1 0 7 0	Velocity (lps)	0	4070	inci,	Partial
	9.6	342.9	1670	244.2	1673	1672	0	1672	У	С
2	9.2	358.7	1597	255.5	1599	1598	0	1598	n	P
3	9.5	344.0	1665	245.0	1667	1666	0	1666	n	р
4	9.8	341.8	1676	243.4	1678	1677	0	1677	n	P
5	10.1	332.4	1723	236.7	1726	1725	0	1725	n	р
6	10.5	318.9	1796	227.1	1799	1797	0	1797	n	C
7	10.3	328.2	1745	233.8	1747	1746	0	1746	n	р
8	10.5	321.4	1782	229.0	1784	1783	0	1783	n	p
9	10.7	317.7	1803	226 3	1805	1804	0	1804	п	C
10	10.5	324.0	1768	230.8	1770	1769	0	1769	n	р
11	10.7	319.6	1792	227.6	1795	1794	0	1794	n	p
12	10.9	310.3	1846	221.0	1848	1847	0	1847	У	q
			~			-	0	-		[
			-		-		0	-		
The			-		-	-	0	-		
		erformed in a			V50	HIGH	LOW	RANGE OF		IGE OF
1 .		juirements a			VELOCITY	PARTIAL	COMPLETE	1 1		D RESULTS
			ice of the	listed sample.	1759	1847	1672	176		176
and a second sec	RKS/NO		-1 (°							
Clay Te	•	101	deg. F.							
2 Horizo	ontal, 2 v	/ertical Strap)S							
+ 5		14 4 1 1-	1056-						.	100
				could not be obtaine	a due to higr	i parliai and	a low comp	iete penetra	ations.	V50
1	•		e complete	e penetrations.						
and the second second second	e Tested		ומסמ							1
Model N		BA-3A00S-	BRUI							3 -
Threat	rever	IIIA			1					at a contr
Camala	Descrip	ntions			₿ \$ £ €, 1 ∧					
	<u>) Descri</u>		fibor 12 -1	ulaminatod 14u141		IOU UA [10	n uración X a com			· · ·
				y laminated, 11x11).		7°. '		mon Reg		
				ber (2-ply laminated	, 22822).	Diversit	m contrar		i.	onnated
		-32: Flex ara Plastic (0.01'					B7	VE System	15	
Layers	ວວ, ວວ. ເ	าสอแม (บ.บ.)	anor j.							
Elston/	Vold									
			1175 7742	7 M STRASEN	Michila KS	C7005 DL	216 022 1	000 5.00	240.02	0.1000

United States Test Laboratory LLC. 7447 W 33rd St. N.

Wichita, KS 67205 Ph. 316-832-1600 Fax 316-832-1602

ate Received la leturned Via	08/31/10 Fed Ex UPS					Record No Test Dale Customer	BAE101691 08/31/10 BAE System	15		
est Condition	5							Range 3		
emperature.								Muzzle to		5.92 ft.
lumidity	48 %	1						Screen 1 -		5.73 ft.
Jay Block No	8						:	Screen 2 -	Target:	4 54 ().
lay Temp	98 °F						i	Midpoint to	∋ Target.	741 ft.
)rops (Avg.)		101						Target to \	Vilness	Ó Ĥ.
est Spec	Modified/Abb		NI.J 0101.00	5			1	Barrel Len	gth	10 m
hreat Level	Special Threa							Clay Block		5.5 m
Condition.	New	• 1								19 Juli
	le/Test Descr	intion	1	an lana ang ang ang ang ang ang ang ang ang	Ammuniti	on Descript	ion	Chron	ograph	Results
Sample	Sample	Wet	0-45 Deg.	Shot	Shot	Caliber	Bullet	TIME	VELOCITY	Perforation
Size	Weight (lbs.)	Dry	Angle	Ho.	Location		Wt./Type	sx-5	ips	BFS (mm)
2214-2017	1.98	Wei	0	1	1	357 Sig	125 GDHP	432.4	1325	25.36
2214-2017	1.98	Wet	υ	2	2	357 Sig	125 GDHP	438 0	1308	29.45 30.21
2214-2017	1.98	Wet	0	3	3	357 Sig	125 GDHP	427.9	1339	No Perforation
2214-2017	1 98	Wet	30	4	4	357 Sig	125 GOHP	426.8	1342 1312	No Perforation
2214-2017	1.98	Wet	45	5	5	.357 Sig	125 GDHP	436 7 435 7	1312	No Perforation
2214-2017	1 98	Wet	0	6	6	.357 Sig	125 GDHP	4307	1313	140 F GROFATION
									-	
									,	
									*	
									*	
			111 J.L		Linited St.	ates Test La	horatopy	316-8	32-1600	Phone
This test was r	performed in ac	cordance	e with the		7447 W. 3		boratory		32-1602	Fax
specification re	equirements an	n ne te: as of tho	teted caper	iy dia	Wichita, H		USA			
	istic performan	ce or me	insted same	<u>лс</u>	11101110,1			a and an and the second of the second se		
REMARKS/NO	<u>JTES:</u> marking per NI.	LATATA	6. Sertiou 7	8.1						
Shet location i	панкинд рестик	10/01/01	a, shereber i							
Shot-to-edge	distance	2.25"								
-	quested 357 Si	- 126ar	COHP @ L	335 +1-1	30 los					
.Customer rec	Thereo on o	g izəgi	0011 @		an dea					
Sample Test	ed:									
Model No	BA-3A00S-5	SM01			9	s starting				1, Î
Panel Side	Front									and test
Size	2214-2017			for second	he should		法查到11公司 副审规 2 		11 A.	• I
DoM	Aug 2010				100 -				,	
Serial No.	10110367						and the state of the	1. s X	1.11	
Loi Ne	019170				1.58	0.1043.00		1 N. A. B.	pointe	d.
Threat Level	ША - Spècia	al Threat			\$ 1 L -		R. C. Maria	s.1.15		
1										

,

Date Received 08/31/10 Via Fed Ex Returned Via UPS

Test Conditions

Temperature:	72	oF
Humidity:	48	12g
Clay Block No	8	
Clay Temp.	98	۰ ۲ -
Etrops (Avg.)	19.0	mm
Test Spec	Modified//	Abbreviated NIJ 0101.06
Threat Level	Special TI	hreat
Condition	New	

Record No: BAE101692 Test Date: 08/31/10 Customer: BAE Systems

5 92 ft
573 ft.
4.54 ft.
7414
0.41.
10 in
5.5 in

ondition.	New ole/Test Descr	intion	T		Ammunitie	on Descript	on	Chron	ograph	Results
Sample	Sample	Wet	0-45 Deg.	Shot	Shot	Galiber	Bullet	TIME	VELOCITY	Fertoration
Size	Weight (lbs.)	Dry	Angle	Ho.	Location		WL/Type	sx-5	(ps	BFS (mm)
LERC	2 29	Wet	0	1.	1	357 Sig	125 GDHP	434.6	1318	20.71
LRRU	2.29	Wet	0	2	2	357 Sig	125 GDHP	438:5	1306	19.45
LRRC	2.29	Wet	0	3	3	357 Sig	125 GDHP	437.2	1310	24 43
LRRC	2.29	Wet	30	ā	4	357 Sig	125 GDHP	429.6	1333	No Perforatio
	2.29	Wet	45	6	5	357 Sig	125 GDHP	435.3	1316	No Perforatu
LERC LERC	2.29	Wet	0	6	6	357 Sig	125 GDHP	431,0	1329	No Perforatio
									•	
his tool war	performed in ac	cordanci	e with the		United Sta	tes Test Lat	poratory	316-8	32-1600	Phone
nis test was oprification i	requirements an	d the rea	ults propert	v	7447 W 3			316-8	32-1602	Fax
aliset the hel	listic performan	re of the	listed same	le	Wichita, K	S 67205	U.S.A			

Shot location marking per NIJ 0101-06 Section 7-8-1

Shot-to-edge distance 2.25"

*Customer requested: 357 Sig 125gr GDHP @ 1335 +/- 30 fps.

Sample Tested:

Model NoBA-3A00S-BR01Panel Side.Fron!SizeLRRCDoMAug 2010Senat No10161924Lot No015082Threat LevelIIIA - Special Threat

Have constant of the second se

Zerger/Childers

)ate Rei /ia Returner		8/31/10 Fed Ex UPS			Record No Test Date Customer	BAE10169 8/31/10 BAE Syste				
Sample Manufacturer Size. No of Plies Weight: Model No Serial No Serial No Lot No Threat Level Condition		BA-3A00S- 10161925 014208 IIIA - Speck	lbs 3R01	<u>Threat</u> Projectile Weight Powder Barrel Length: Obliquity Test Spec	357 Sig 125 GDHP Power Pisto 14 0 Modified/Ab NIJ 0101 06	in. deg breviated	Range 3 Muzzle to S Screen 1 - Screen 2 - Target to V Midpoint to Witness Pa Temperatu Humidity	5 54 ft 5 73 ft 4 54 ft 0 ft 7.41 ft 5 5 in clay 74 °F 51 %		
Conditio	nu N	New Chronograph	<u></u>]	Chronograph					કલ્લો	Penetration Complete
SHOR	Powter	EWIL	VELOCITY	TIME	AEFORTES.	AVERAGE	Loss	和它的自由的自由		Partial
Pb_{\odot}		5×3	lps.	Č-7.4	1 <i>\$1</i> 5	Velocity (fps)			150	
1	10.0	329.4	1739	234.5	1742	1740	0	1740	У	C
2	9.0	357.4	1603	254.5	1605	1604	0	1604	n	ρ
3	9.4	-332-1	1725	236 5	1727	1726	0	1726	n	p
4	9.7	333.4	1718	237 4	1721	1719	0	1719	n	p
5	10.0	326-7	1753	232.6	1756	1755	0	1755	13	p
., 6	10.3	323 1	1773	230 5	1772	1773	0	1773	n	ρ
7	10.5	316.8	1808	225 5	1812	1810	0	1810	n	ρ
8	11 0	311.6	1838	221.9	1841	1840	0	1840	y	С
	10.7	316.8	1808	226 0	1808	1808	0	1808	11	ρ
9			1848	221 1	1848	1848	0	1848	Ŷ	р
10	110	309,9	1881	216 7	1885	1883	õ	1883	ý	p
11	11.3	304 5	1001	2107	1000	100.0	Ő	-	1	1
			-				0			
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			-		-		0			
			*		~	-		in.		
					-	-	0	-		
			-		-		0	-		
						-	0			
This tes	st was p	erformed in a	iccordanc	e with the	V50	HIGH	LOM	RANGE OF		NGE OF
specific	ation re	quirements a	ind the res	sults properly listed sample	VELOCITY 1828	PARTIAL 1883	COMPLETE 1740	RESULTS 143	MIXE	143
REMAR	RKS/NC	DTES		n na sana na kaominina dia	(12, 1 , 20), 93(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2), 100(2),					
Clay Bl		1								
Drop A		20.9	mm							
Clay Te	emp.	102	2F							
'Shot-b	o-shot s	pacing in acc	ordance ·	with section 7,6.2	/ %	<i>.</i>				
V50 ba	ised on	two stops an) two perf	orations The						
].}tXt+1	le este s	n 1999 - Maria 1999 - Santa Maria 1999 - Santa Maria		् 	
Zocost	/Childer	ç								332-1602

BANC NATIONAL D'EPREUVE DES ARMES ET MUNITIONS Chambre de Commerce et d'Industrie de Saint-Etienne/Montbrison TEST BALISTIQUE

EPROUVETTE N°: 1

Epaisseur :

CLIENT : RIVOLIER

Date :23/11/2009 Masse : 3.350 Kg

Dimensions :

Composition : GILET

CALIBRE:	.44 MAG SWC	.357 MAG JHP	9MM FMJ	
DISTANCE:	5 METRES	5 METRES	5 METRES	

Température de la gaine de tir : 17.2°C

Plastiline :ROMA Nº1

N° de tir	Projectile	V2.5 (m/s)	Stop	Prof. (mm)	Remarques
1 2 3 4	SWC JHP JHP FMJ	424 421 360 420	OUI NON OUI OUI	32 - 14 22	THORAX Tir Invalide vitesse trop élevée
1 2 3	SWC JHP FMJ	427 362 423	oui oui oui	31 16 22	DOS (TIRS A 30°)
					EXPORT OF THOUT HOATA hese commutes include the community opposite bit is of parameters and the transmission Admitistic the second Diversion community of Millions promotion HAL by demis

Noms opérateurs : BISCH/MARX Personnes présentes : /

Observations :

1. A ANDERSON DE LE CONTRACTO DE LA CONTRACTIONE DE LE CONTRACTO DE LE CONTRACTÓ DE LE CONTRACTÍN DE LE CONTRACTÓ DE LE CONTRACTÓ DE LE CONTRACTÓ DE LE CONTRACTÍN
NciviArec Technicien Laboratori

"Cet essai a été réalisé dans un laboratoire dont le système de management de la qualité est certifié AFAQ ISO 9001" "This test was conducted in an AFAQ ISO 9001 certified laboratory"

VIC POL

					Per	netration	and	BFS	Summa	y Data						
	Number:	09N0			Test ID:	SAF09-00			04.0200	30 0004		Repo	ort Date: ม	04 IJ Armor	102/09	3A
Manu	facturer:		Safari	land			-		BA-3A00	13-BK01			N	is armor	tyho:"	- JM
Amr	nunition:	.357 S	IG	125	#FMJ		est Vel			± 30 fl/s			Condi	itioning: _	Wet	
	Sample	1		Size:	C-5		<u>/////////////////////////////////////</u>		Sample	2		Size:	C-5			
	oumpro	Front Pa				Back Pa	nel	2010 Contractor Contractor		Front Pa				Back Pa		
Shol	Avg. Vel.	Perf	BFS		Avg. Vol.	Perf	BFS		Avg. Vel.	Pett	ÐFS	11-1-	Avg. Vol.	Perf	8FS	Note
Number	(NUSEC)	(Y≖1/N≏0) D	(mm) 27.0	Nate	(fUsec) 1467 1	(Y=1/N=0) 0	(mm) 28.0	Note	(filsec) 1460.7	[Y=1/N=0] 0	29.0	Note	(N/sec) 1448.9	(Y=1/N=0) 0	24.0	MORE
1	1443.5 1477 9	0	290		1479.0	ŏ	30.0		1490.7	õ	26.0		1468.2	0	22.0	
3	1495 6	0	34.0		1485 9	0	27 0		1488.4	0	29.0		1507 1	۵	25.0	
4	1487 9	0			1495.0	0			1501.1	0			1468 2	0		
5	1500.5	0			1491.8 1507 3	0 0			1485.7 1513.4	0			1503.7 1454.7	ប ប		
6 7	1446.8	0			1007.0	ų			1010.4	U			1464.7	0		
8																
ummar	y:	Perfora			(Pass)			BFS	Statistics	Count	12		Average:	27.5		
		Maximum	BFS	34.0	mm	(Dece M		araatar	then dd e		1.568		St Dev	3 12	mm	
		en andre and the Providence and				(Pass - N	0 013	yı cater	1060 4 4 [netty						
	Sample	3	*******	Size:	C-1			************	Sample	4		Size:	C-1			******
		Front Pa	nel			Back Pa				Front Pa				Back Pa		
Shot	Avg, Vel.	Perf	OFS		Avg Vel.	Peri	BFS		Avg. Vel.	Pert	8FS	\$1.nt -	Avg. Vel.	Port (Y=1/N=0)	BFS (mm)	Note
Number	(10205)	(Y=1/N=0)	(mm) 26.0	Note	(N/sec) 1444,4	(Y=1IN=0) 0	<u>(mm)</u> 24 0	Note	(#Usec) 1514.7	(Y≖1/N≈0) Ū	(mm) 26.0	Note	(ft/sec) 1476 7	(Y=1/N=0) ()	(mm) 25.0	note
1 2	1464.2 1482.6	0	25.0		1467.7	0 0	23.0		1454.5	ō	23.0		1479.0	õ	23.0	
3	1495 2	õ	27.0		1476.3	0	310		1479.4	Ó	28.0		1482 7	Ó	26.0	
4	1524.0	0			1503.4	0			1482.6	0			1492.0	0 0		
5	1507.8	Û			1470.3	0 0			1485 9 1484 1	0 0			1495.0 1482 1	0		
6 7	1503,9	0			1010.4	U			/404 /	4						
8											*****					
umma	γ:		ations:		(Pass)			BFS	Statistics		12		Average:	25.6		
		Maximun	n BFS.	31.0	mm	(Pass - N	In DEC	aranta	r than đđ		1.568		St Dev :	2.35	mm	
		**************************************	- Parrie Manadata		a an			. New	Armor		100040707799463600	palator de l'anno de la				
Am	munition:	.44 N	lag	240	/SJHP		Test Va	locity:	1430	± 30 ft/s		-	Conc	iltioning:	Wet	
Am			lag				Test Va	locity:				Size:		litioning:	Wet	
Am	munition: Sample	5		240 Size:				llocity:	1430 Sample	± 30 ft/s 6 Front P		Sizo;		litioning: Back Pa		
Am Shot		5 Front Pa				- Back Pa			Sample Avg. Vel.	6 Front P. Perf	anel BFS		C-5 Avg. Vel.	Back Pa Pert	anel BFS	
Shot	Sample Avg. Vet. (ft/sec)	5 Front Pa Port (Y=1/N=0)	anel BFS (mm)		C-5 Avg. Vel. (fUsec)	Back Pa Perf (Y=1/N=0)	anel BFS (mm)	Note	Sample Avg. Vel. (fUsec)	6 Front Pa Pert (Y≏1/N≏0)	anel BFS (mm)	Size: Note	C-5 Avg. Vel. (IVAec)	Back Pa Pert (Y≂t/N≃0)	anel aFs (mm)	Note
Shot Number 1	Sample Avg. Vet. (ft/sec) 1455.1	5 Front Pa Part (7=1/N=0) D	anel BFS (mm) 37.0	Size:	C-5 Avg. Vol. (fUsec) 1460.5	Back Pa Perf (('=1/N=0) 0	anel BFS (mm) 37.0		Sample Avg. Vel. (tusec) 1460.5	6 Front P Pert (Y≠1/N=0) 0	anel BFS (mm) 38.0		C-5 Avg. Vel.	Back Pa Pert	anel BFS	Note
Shot Number 1 2	Sample Avg. Vet. (0/600) 1455.1 1427.8	5 Front Pa Part (Y=1/N=0) D 0	anel BFS (mm) 37.0 32.0	Size:	C-5 Avg Vol. (fUsec) 1460.5 1451.6	Back Pa Perf (1=1(N=0) 0 0	anel BFS (mm)		Sample Avg. Vel. (fUsec)	6 Front Pa Pert (Y≏1/N≏0)	anel BFS (mm)		C-5 Avg. Vel. (Naec) 1457.9	Back Pa Pert (Y=1/N=0) 0	anel aFs (mm) 34.0	Note
Shot Number 1	Sample Avg. Vet. (ft/sec) 1455.1	5 Front Pa Part (7=1/N=0) D D O O	anel BFS (mm) 37.0	Size:	C-5 Avg. Vol. (fUsec) 1460.5	Back Pa Part ((*=11N≖0) 0 0 0	anel BFS (mm) 37.0 30,0		Sample Avg. Vel. (Usec) 1460.5 1413.5 1467.9 1446.7	6 Front P Perf (Y±1/N=0) 0 0 0 0 0	anel BFS (mm) 38.0 34.0		C-5 Avg. Vel. (IVsec) 1457.9 1460.0 1449.7 1459.2	Back Pa Pert (Y=1/N=0) 0 0 0 0 0	anel 9Fs (mm) 34.0 30.0	Note
Shot Number 1 2 3 4 5	Sample Avg. Vet. (n/sec) 1455.1 1427.8 1452.1 1449.9 1438.9	5 Front Pa Port (7=1/R=0) 0 0 0 0 0	anel BFS (mm) 37.0 32.0	Size:	C-5 Avg. Vol. (fUsec) 1460.5 1451.6 1445.3 1446.9 1452.7	Back Pa Part (*=11N=0) 0 0 0 0 0	anel BFS (mm) 37.0 30,0		Sample Avg. Vel. (tusec) 1460.5 1443.5 1467.9 1446.7 1447.4	6 Front P Perf (Y±1/N=0) 0 0 0 0 0 0	anel BFS (mm) 38.0 34.0		C-5 Avg. Vel. (Nsec) 1457.9 1460.0 1449.7 1459.2 1455.3	Back Pa Pert (Y=1/N=0) 0 0 0 0 0 0	anel 9Fs (mm) 34.0 30.0	Note
Shot Number 1 2 3 4 5 6	Sample Avg. Vet. (n/sec) 1455.1 1427.8 1452.1 1449.9	5 Front Pa Port (7=1/R=0) 0 0 0 0 0	anel BFS (mm) 37.0 32.0	Size:	C-5 Avg. Vol. (f/sec) 1480.5 1451.6 1445.3 1446.9	Back Part Part (*=11N=0) 0 0 0 0	anel BFS (mm) 37.0 30,0		Sample Avg. Vel. (Usec) 1460.5 1413.5 1467.9 1446.7	6 Front P Perf (Y±1/N=0) 0 0 0 0 0	anel BFS (mm) 38.0 34.0		C-5 Avg. Vel. (IVsec) 1457.9 1460.0 1449.7 1459.2	Back Pa Pert (Y=1/N=0) 0 0 0 0 0	anel 9Fs (mm) 34.0 30.0	Note
Sho! Number 1 2 3 4 5 6 7	Sample Avg. Vet. (n/sec) 1455.1 1427.8 1452.1 1449.9 1438.9	5 Front Pa Port (7=1/R=0) 0 0 0 0 0	anel BFS (mm) 37.0 32.0	Size:	C-5 Avg. Vol. (fUsec) 1460.5 1451.6 1445.3 1446.9 1452.7	Back Pa Part (*=11N=0) 0 0 0 0 0	anel BFS (mm) 37.0 30,0		Sample Avg. Vel. (tusec) 1460.5 1443.5 1467.9 1446.7 1447.4	6 Front P Perf (Y±1/N=0) 0 0 0 0 0 0	anel BFS (mm) 38.0 34.0		C-5 Avg. Vel. (Nsec) 1457.9 1460.0 1449.7 1459.2 1455.3	Back Pa Pert (Y=1/N=0) 0 0 0 0 0 0	anel 9Fs (mm) 34.0 30.0	Note
Sho: <u>Number</u> 1 2 3 4 5 6 7 8	Sample Avg. Vel. (f/sec) 1455.1 1427.8 1452.1 1449.9 1438.9 1447.8	5 Front Pa Port (Y≖1/№0) 0 0 0 0 0 0	anel BFS (mm) 37.0 32.0	Size: Note	C-5 Avg. Vol. (fUsec) 1460.5 1451.6 1445.3 1446.9 1452.7	Back Pa Part (*=11N=0) 0 0 0 0 0	anel BFS (mm) 37.0 30,0	Nate	Sample Avg. Vel. (tusec) 1460.5 1443.5 1467.9 1446.7 1447.4	6 Front P Pert (Y±1(N=0)) 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 38.0 34.0 32.0	Nota	C-5 Avg. Vel. (IUsec) 1457.9 1460.0 1449.7 1459.2 1455.3 1463.1 Average	Back P: Pert (Y=1/N=0) 0 0 0 0 0 0 0 0 0 33.6	anel aFs (mm) 34.0 30.0 30.0 30.0	Note
Sho: <u>Number</u> 1 2 3 4 5 6 7 8	Sample Avg. Vel. (f/sec) 1455.1 1427.8 1452.1 1449.9 1438.9 1447.8	5 Front Pa Port (Y≖1/№0) 0 0 0 0 0 0	anel BFS (mm) 37.0 32.0 33.0 33.0	Size: Note	C-5 Avg. Vel. (ft/sec) 1460.5 1451.6 1445.3 1445.9 1452.7 1463.1	Back Pa Port ((=11N=0) 0 0 0 0 0 0 0	anel BFS (mm) 37.0 30.0 36.0	Note BFS	Sample ((USEC) 1460.5 1443.5 1467.9 1446.7 1447.4 1460.9 Statistics	6 Front P. Pert (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 38.0 34.0 32.0	Nota	C-5 Avg. Vel. (II/4ec) 1457.9 1460.0 1449.7 1459.2 1455.3 1463.1	Back P: Pert (Y=1/N=0) 0 0 0 0 0 0 0 0 0 33.6	anel BFs (mm) 34.0 30.0 30.0 30.0	Note
Sho! <u>Number</u> 1 2 3 4 5 6 7 8	Sample Avg. Vel. (f/sec) 1455.1 1427.8 1452.1 1449.9 1438.9 1447.8	5 Front Part (1*=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 37.0 32.0 33.0 33.0	Size: Note	C-5 Avg. Vol. (ft/sec) 1460 5 1451.6 1445 3 1446 3 14463.1 1463.1 (Pass)	Back Pa Port ((=11N=0) 0 0 0 0 0 0 0	anel BFS (mm) 37.0 30.0 36.0	Note BFS	Sample Avg. Vel. (t//sec) 1460.5 1443.5 1467.9 1446.7 1447.4 1460.9	6 Front P. Pert (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 38.0 34.0 32.0	Nota	C-5 Avg. Vel. (IUsec) 1457.9 1460.0 1449.7 1459.2 1455.3 1463.1 Average	Back P: Pert (Y=1/N=0) 0 0 0 0 0 0 0 0 0 33.6	anel aFs (mm) 34.0 30.0 30.0 30.0	Note
Sho! Number 1 2 3 4 5 6 7	Sample Avg. Vel. (#/sec] 1455 1 1427 8 1452.1 1449 8 1438.9 1447 8	5 Front Pa Port (?≈1/k≥0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 37.0 32.0 33.0 33.0	Size: Note 0 38.0	C-5 Avg Vol. (t/5ec) 1460 5 1451.6 1445 3 1446.9 1452.7 1463.1 (Pass) mm	Back Pa Port ((=11N=0) 0 0 0 0 0 0 0	anel BFS (mm) 37.0 30.0 36.0	Note BFS	Sample Avg. Vel. (tosec) 1460.5 14467.9 14467.4 1446.7 1446.9 Statistics ar then 44	6 Front P. Pert 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 38.0 34.0 32.0	Note	C-5 Avg. Vel. (Nasc) 1457.9 1460.0 1449.7 1459.2 1455.3 1463.1 Average. St. Dev.	Back P: Pert (Y=1/N=0) 0 0 0 0 0 0 0 0 0 33.6	anel aFs (mm) 34.0 30.0 30.0 30.0	Note
Sho! Number 1 2 3 4 5 6 7 8	Sample Avg. Vel. (f/sec) 1455.1 1427.8 1452.1 1449.9 1438.9 1447.8	5 Front Part Pert (Y=1N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS [mm] 37.0 32.0 33.0 33.0	Size: Note	C-5 Avg Vol. (t/5ec) 1460 5 1451.6 1445 3 1446.9 1452.7 1463.1 (Pass) mm	Back Pa Port ((=11N=0) 0 0 0 0 0 0 0	anel BFS (mm) 37.0 30.0 36.0	Note BFS	Sample ((USEC) 1460.5 1443.5 1467.9 1446.7 1447.4 1460.9 Statistics	6 Front P. Pert 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 38.0 34.0 32.0 12 1 568	Nota	C-5 Avg. Vel. (Nasc) 1457.9 1460.0 1449.7 1459.2 1455.3 1463.1 Average. St. Dev.	Back P: Pert (Y=1/N=0) 0 0 0 0 0 0 0 0 0 33.6	anel aFs (mm) 34.0 30.0 30.0 30.0 30.0	Note
Sho! <u>Number</u> 1 2 3 4 5 6 7 8	Sample Avg. Vel. (#/sec] 1455 1 1427 8 1452.1 1449 8 1438.9 1447 8	5 Front Part Pert (Y=1/K=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS [mm] 37.0 32.0 33.0 33.0	Size: Note 0 38.0	C-5 Avg Vol. (t/5ec) 1460 5 1451.6 1445 3 1446.9 1452.7 1463.1 (Pass) mm	Back Part Part (*=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 37.0 30.0 36.0	Note BFS	Sample Avg, Vet. (tt/sec) 1460.5 1467.9 14467.9 14467.9 1447.4 1460.9 Statistics ar then 44 Sample Avg, Vet	6 Front Pr Pert (Y±1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 38.0 34.0 32.0 12 1 568 anel BFS	Nota Size	C-5 Avg. Vet. (1/457.9 1457.9 1450.0 1449.7 1459.2 1455.3 1453.1 Average. St. Dev.: C-1 Avg. Vet.	Back Pert (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel 8FS (mm) 34.0 30.0 30.0 30.0 30.0 30.0 30.0 8FS	
Shot Number 1 2 3 4 5 6 7 8 8 Summa Shot Number	Sample Avg. Vet. (tr/sec) 1455 1 1427 8 1452 1 1449 9 1438 9 1447 8 1447 8 1447 8 1447 8	5 Front Part Port (Y=1)(x=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 37.0 32.0 33.0 33.0 rations: m BFS; anel BFS (mm)	Size: Note 0 38.0	C-5 Avg. Vol. (ft/sec) 1460 5 1451.6 1445.3 1446.3 1446.3 1446.3 (Pass) mm (Pass) mm (C-1 Avg. Vel (ft/sec)	Back Perf (**=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 37,0 30,0 36,0 36,0 40 BFS anel BFS	Note BFS	Sample Avg. Vel. (tosec) 1460,5 1467,9 14467,9 14467,4 1460,9 Statistics or then 44 Sample Avg. Vel (fusec)	6 Front Pr Perf (Υ=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 38.0 34.0 32.0 12 1 568 anel BFS (mm)	Note	C-5 Avg. Vel. (1457.9 1460.0 1449.7 1459.2 1455.2 1455.3 1463.1 Average. SI. Dev.: C-1 Avg. Vel. (106cc)	Back Per (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	anel aFs (mm) 34.0 30.0 30.0 30.0 30.0 anel BFS (mm)	Note
Shot Number 1 2 3 4 5 6 7 8 8 5 6 7 8 8 Summa Shot Number 1	Sample Avg. Vet. (ft/sec) 1455.1 1427.8 1452.1 1449.9 1438.9 1447.8 1447.8 ry: Sample Avg. Vet (tt/sec) 1462.6	5 Front Part Pert (Υ=1/K=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	anel 8FS (mm) 37.0 32.0 33.0 33.0 rations: m BFS; anel 8FS (mm) 34.0	Size: Note 0 38.0 Size	C-5 Avg Vol. (r/sec) 1460 5 1451.6 1445 3 1446.9 1452.7 1463.1 (Pass) mm C-1 Avg. Vel (r/sec) 1459 8	Back Part (Y=1(N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 37.0 30.0 36.0 36.0 40 BFS anel BFS (mm) 35.0	Note BFS greate	Sample Avg. Vel. (Wsec) 1460.5 1443.5 1447.9 1446.7 1447.4 1460.9 Statistics or then 44 Avg. Vel (fusec) 1457.7	6 Front P. Pert (Y≤1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 38.0 34.0 32.0 12 1 568 anel BFS (mm) 35.0	Nota Size	C-5 Avg. Vel. (10462) 1457.9 1457.9 1459.2 1455.3 1453.3 1463.1 Average. SI. Dev.: C-1 Avg. Vel. (10662) 1463.5	Back Part (Y=1IN=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 8 33.6 2 91 8 8 ack P ert (Y=1Y=0) 0 0	anel arel arel ares (mm) 34.0 30.0 30.0 30.0 30.0 anel BFS (mm) 35.0	
Shot Number 1 2 3 4 5 6 7 8 Summa Shot Number 1 2	Sample Avg. Vel. (ft/sec) 1455 1 1427 8 1452 1 1449 9 1438 9 1447 8 1447 8 1447 8 1447 8 1447 8 1447 8 1448 4 1447 6 1442 6 1442 6 1442 6 1442 6 1447 10	5 Front Part (Y=1N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	anel ars. [mm] 37.0 32.0 33.0 33.0 rations: m BFS: anel BFS: [ms] 34.0 35.0	Size: Note 0 38.0 Size	C-5 Avg Vot. (r/bec) 1460 5 1451.6 1445.9 1452.7 1463.1 (Pass) mm C-1 Avg. Vel (r/bsc) 1452.8 1462.2	Back Part (*=1(N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFs (mm) 37.0 30.0 36.0 36.0 40 BFS anel BFS (mm) 35.0 33.0	Note BFS greate	Sample Avg. Vel. (tosec) 1460,5 1467,9 14467,9 14467,4 1460,9 Statistics or then 44 Sample Avg. Vel (fusec)	6 Front P. Pert (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 38.0 34.0 32.0 12 1 568 anel BFS (mm)	Nota Size	C-5 Avg. Vel. (1457.9 1460.0 1449.7 1459.2 1455.2 1455.3 1463.1 Average. SI. Dev.: C-1 Avg. Vel. (106cc)	Back Per (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	anel aFs (mm) 34.0 30.0 30.0 30.0 30.0 anel BFS (mm)	
Shot Number 1 2 3 4 5 6 7 8 8 Summa Shot Number 1 2 3	Sample Avg. Vet. (n/sec) 1455 1 1427.8 1452.1 1449.9 1438.9 1447 8 1447 8 ry: Sample Avg. Vet. (n/sec) 1462.6 1461.6	5 Front Part (Y=1)X=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	anel 8FS (mm) 37.0 32.0 33.0 33.0 rations: m BFS; anel 8FS (mm) 34.0	Size: Note 0 38.0 Size	C-5 Avg Vol. (r/sec) 1460 5 1451.6 1445 3 1446.9 1452.7 1463.1 (Pass) mm C-1 Avg. Vel (r/sec) 1459 8	Back Perf (('=1(N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 37.0 30.0 36.0 36.0 40 BFS anel BFS (mm) 35.0	Note BFS greate	Sample Avg. Vel. (trsec) 1460,5 1467,9 14467,9 14467,9 14467,9 Statistics or then 44 Avg. Vel (frsec) 1457,7 1460,5 1457,7 1460,5 1457,7 1460,5 1448,0 1448,0	6 Front P. Perf (Y±1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 38.0 34.0 32.0 12 1 568 anel BFS (mm) 35.0 33.0	Nota Size	C-5 Avg. Vet. (1/457.9 1457.9 1460.0 1449.7 1459.2 1455.3 1463.1 Average. St. Dev : : C-1 Avg. Vet. (1/66.8 1465.5 1466.8 1455.9 1457.2	Back Per (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	anel aFs (mm) 34.0 30.0 30.0 30.0 30.0 30.0 30.0 anel BFs (mm) Mm Mm Mm Mm Mm Mm Mm Mm Mm Mm Mm Mm Mm	
Shot Number 1 2 3 4 5 6 7 8 Summa Shot Number 1 2	Sample Avg. Vel. (ft/sec) 1455 1 1427 8 1452 1 1449 9 1438 9 1447 8 1447 8 1447 8 1447 8 1447 8 1447 8 1448 4 1447 6 1442 6 1442 6 1442 6 1442 6 1447 10	5 Front Part Pert 0 0 0 0 0 0 0 0 0 0 0 0 0	anel ars. [mm] 37.0 32.0 33.0 33.0 rations: m BFS: anel BFS: [ms] 34.0 35.0	Size: Note 0 38.0 Size	C-5 Avg Vot. (r/Jsec) 1460 5 1451.6 1445 3 1446.9 1452.7 1463.1 (Pass) mm C-1 Avg Vel 1459 8 1462 2 1457.2 1457.2 1457.1	Back Part (*=1(N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFs (mm) 37.0 30.0 36.0 36.0 40 BFS anel BFS (mm) 35.0 33.0	Note BFS greate	Sample Avg. Vel. (Wzec) 1460.5 1443.5 1447.4 1460.9 1446.7 1447.4 1460.9 Statistics or then 44 Nvg. Vel (Wisc) 1457.7 1460.5 1455.7 1465.2 1485.2 1485.2 1485.2	6 Front P. Pert (Y≤1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 38.0 34.0 32.0 12 1 568 anel BFS (mm) 35.0 33.0	Nota Size	C.5 Avg. Vel. (10462) 1457.9 1457.9 1459.2 1455.3 1453.3 1463.1 Average. SI. Dev. SI. Dev. C-1 Avg. Vel. (1066.5 1465.5 1465.6 1455.9 1457.9 1467.2	Back Part (Y=1IN=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel aFs (mm) 34.0 30.0 30.0 30.0 30.0 30.0 30.0 anel BFs (mm) Mm Mm Mm Mm Mm Mm Mm Mm Mm Mm Mm Mm Mm	
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Shot Number 1 2 3 4 5 6 7 8 Summa Shot Number 1 2 3 4 5 6 7 7	Sample Avg. Vet. (ft/sec) 1455.1 1427.8 1452.1 1449.9 1438.9 1447.8 1447.8 1447.8 1447.8 1447.8 1447.8 1447.8 1447.8 1447.8 1447.8 1446.6 1465.6 1456.4	5 Front Par Perf (Υ=1/Ν=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	anel ars. [mm] 37.0 32.0 33.0 33.0 rations: m BFS: anel BFS: [ms] 34.0 35.0	Size: Note 0 38.0 Size	C-5 Avg Vot. (r/Jsec) 1460 5 1451.6 1445 3 1446.9 1452.7 1463.1 (Pass) mm C-1 Avg Vel 1459 8 1462 2 1457.2 1457.2 1457.1	Back Part (*=1(N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFs (mm) 37.0 30.0 36.0 36.0 40 BFS anel BFS (mm) 35.0 33.0	Note BFS greate	Sample Avg. Vel. (Wzec) 1460.5 1443.5 1447.4 1460.9 1446.7 1447.4 1460.9 Statistics or then 44 Nvg. Vel (Wisc) 1457.7 1460.5 1457.6 1455.6 1455.6	6 Front P. Pert (Y≤1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 38.0 34.0 32.0 12 1 568 anel BFS (mm) 35.0 33.0	Nota Size	C.5 Avg. Vel. (10462) 1457.9 1457.9 1459.2 1455.3 1453.3 1463.1 Average. SI. Dev. SI. Dev. C-1 Avg. Vel. (1066.5 1465.5 1465.6 1455.9 1457.9 1467.2	Back Part (Y=1IN=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel aFs (mm) 34.0 30.0 30.0 30.0 30.0 30.0 30.0 anel BFs (mm) Mm Mm Mm Mm Mm Mm Mm Mm Mm Mm Mm Mm Mm	
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Shot Number 1 2 3 4 5 6 7 8 8 Summa 8 Summa 8 Summa 8 Shot 1 2 3 4 5 6 7 7	Sample Avg. Vet. (n/sec) 1455 1 1427.8 1452.1 1449.9 1438.9 1447 8 1447 8 ry: Sample Avg. Vet. (n/sec) 1462.6 1471.0 1465.7 1472.5 1456.4 1469.2	5 Front Part (Υ=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS [mm] 37.0 32.0 33.0 33.0 33.0 rations: m BFS: m BFS: m BFS (mm) 34.0 35.0 37.0	Size: Note D 38.0 Sizo Note	C-5 Avg Vot. (r/Jsec) 1460 5 1451.6 1445 3 1446.9 1452.7 1463.1 (Pass) mm C-1 Avg Vel 1459 8 1462 2 1457.2 1457.2 1457.1	Back Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 37.0 30.0 36.0 36.0 40 BFS anel BFS (mm) 33.0 33.0 36.0	Note BFS greate Note BFS	Sample Avg. Vel. (Wsec) 1460.5 1460.5 1446.7 1446.7 1446.7 1446.7 Statistics or then 44 Avg. Vel (Wsec) 1457.7 1467.2 1467.2 1467.2 1457.2 1457.2 1457.2 1457.2 1457.2 1457.2	6 Front P. Pert (Y≠1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 38.0 34.0 32.0 12 1 558 anel 9FS (mm) 35.0 36.0	Nota Size Note	C-5 Avg. Vet. (1/457.9 1457.9 1450.0 1449.7 1455.3 1455.3 1455.3 1455.3 1463.1 Average. St. Dev.: C-1 Avg. Vet. (1/63.5 1465.5 1455.9 1457.2 1462.0 1463.1	Back Part (Y=1IN=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel aFs (mm) 34 0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 3	
Shot Number 1 2 3 4 5 6 7 8 Siumma Shot 1 2 3 4 5 6 7 7 8	Sample Avg. Vet. (n/sec) 1455 1 1427.8 1452.1 1449.9 1438.9 1447 8 1447 8 ry: Sample Avg. Vet. (n/sec) 1462.6 1471.0 1465.7 1472.5 1456.4 1469.2	5 Front Part Pert (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS [mm] 37.0 32.0 33.0 33.0 33.0 rations: m BFS: m BFS: m BFS (mm) 34.0 35.0 37.0	Size: Note D 38.0 Sizo Note	C-5 Avg Vol. (ft/sec) 1460 5 1451.6 1445.3 1446.9 1452.7 1463.1 (Pass) Mm Avg. Vel (ft/sec) 1459 8 1462.2 1457 7 1462.0 1457 7 1462.0 1463.5	Back Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 37.0 30.0 36.0 36.0 40 BFS anel BFS (mm) 33.0 33.0 36.0	Note BFS greate Note BFS	Sample Avg, Vet. (tt/sec) 1460.5 1467.9 14467.9 14467.9 14467.9 Statistics or then 44 Sample Avg, Vet (tt/sec) 1457.7 1460.2 1464.2 1448.0 1459.8 1454.2	6 Front P. Pert (Y≠1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 38.0 34.0 32.0 12 1568 anel 9FS (mm) 35.0 33.0 36.0	Nota Size Note	C.5 Avg. Vel. (1457.9 1457.9 1450.2 1455.3 1453.3 1453.3 1463.1 Average SL Dev : C-1 Avg. Vel. (1463.5 1463.5 1465.8 1455.9 1467.5 1462.0 1463.1	Back Part (Y=1IN=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel aFS (mm) 34 0 30.0 30 0 30 0 mm mm mm mm mm anel BFS (mm) 35,0 33,0 33,0 33,0	
Shot lumber 1 2 3 4 5 6 7 8 umma 8 umma 8 umma 8 4 5 6 7 8 8	Sample Avg. Vet. (n/sec) 1455 1 1427.8 1452.1 1449.9 1438.9 1447 8 1447 8 ry: Sample Avg. Vet. (n/sec) 1462.6 1471.0 1465.7 1472.5 1456.4 1469.2	5 Front Part Pert (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS [mm] 37.0 32.0 33.0 33.0 33.0 rations: m BFS: m BFS: m BFS (mm) 34.0 35.0 37.0	Size: Note D 38.0 Sizo Note	C-5 Avg Vol. (ft/sec) 1460 5 1451.6 1445.3 1446.9 1452.7 1463.1 (Pass) Mm Avg. Vel (ft/sec) 1459 8 1462.2 1457 7 1462.0 1457 7 1462.0 1463.5	Back Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 37.0 30.0 36.0 36.0 40 BFS anel BFS (mm) 33.0 33.0 36.0	Note BFS greate Note BFS	Sample Avg. Vel. (Wsec) 1460.5 1460.5 1446.7 1446.7 1446.7 1446.7 Statistics or then 44 Avg. Vel (Wsec) 1457.7 1467.2 1467.2 1467.2 1457.2 1457.2 1457.2 1457.2 1457.2 1457.2	6 Front P. Pert (Y≠1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 38.0 34.0 32.0 12 1568 anel 9FS (mm) 35.0 33.0 36.0	Nota Size Note	C.5 Avg. Vel. (1457.9 1457.9 1450.2 1455.3 1453.3 1453.3 1463.1 Average SL Dev : C-1 Avg. Vel. (1463.5 1463.5 1465.8 1455.9 1467.5 1462.0 1463.1	Back Part (Y=1IN=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel aFS (mm) 34 0 30.0 30 0 30 0 mm mm mm mm mm anel BFS (mm) 35,0 33,0 33,0 33,0	
Shot 1 2 3 4 5 6 7 8 8 4 5 6 7 8 8 4 5 6 7 8 7 8	Sample Avg. Vet. (n/sec) 1455 1 1427.8 1452.1 1449.9 1438.9 1447 8 1447 8 ry: Sample Avg. Vet. (n/sec) 1462.6 1471.0 1465.7 1472.5 1456.4 1469.2	5 Front Part Pert (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS [mm] 37.0 32.0 33.0 33.0 33.0 rations: m BFS: m BFS: m BFS (mm) 34.0 35.0 37.0	Size: Note D 38.0 Sizo Note	C-5 Avg Vol. (ft/sec) 1460 5 1451.6 1445.3 1446.9 1452.7 1463.1 (Pass) Mm Avg. Vel (ft/sec) 1459 8 1462.2 1457 7 1462.0 1457 7 1462.0 1463.5	Back Part (Y=1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 37.0 30.0 36.0 36.0 40 BFS anel BFS (mm) 33.0 33.0 36.0	Note BFS greate Note BFS is greate	Sample Avg, Vet. (Usec) 1460.5 1440.5 1467.9 1446.7 1447.4 1460.9 Statistics or then 44 Avg, Vet (fúsec) 1464.2 1464.2 1464.2 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 1459.6 14	6 Front P. Pert (Y≠1/N=0) 0 0 0 0 0 0 0 0 0 0 0 0 0	anel BFS (mm) 38.0 34.0 32.0 12 1.558 anel BFS (mm) 35.0 36.0 36.0 12 1.558	Nota Size Note	C.5 Avg. Vel. (1457.9 1457.9 1450.2 1455.3 1453.3 1453.3 1463.1 Average SL Dev : C-1 Avg. Vel. (1463.5 1463.5 1465.8 1455.9 1467.5 1462.0 1463.1	Back Part (Y=1IN=0) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	anel aFS (mm) 34 0 30.0 30 0 30 0 mm mm mm mm mm anel BFS (mm) 35,0 33,0 33,0 33,0	Note

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Adjournments of a monitor of the probibiled

Page 1 of 2

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					10000-0000	netration	Contractory of the owner, or the owner,	BFS	Summa	ry Data						
Report)	Number:	09N0	12		Test ID:	SAF09-00	0387					Rep	ort Date:	04	102/09	
						Model	nglaeC	ation:	BA-3A00	0S-BR01			ħ	IIJ Armor	Type:	<u>3A</u>
		and and a subsection of the su				Thread	1.0	nditio	ned Armo							
4	waition	.357 S	10	194	SEM L					± 30 ft/s			Cont	litioning:	Drv	
Amn	aunition:	,507 0	2010	163	N1 1V[J	•	0.01 10	ioony.								
7	Sample	21		Size:	C-5				Sample	22		Size:	C-1	20000000000000000000000000000000000000		
	Jampie	Front Pa	nel			Back Pa	nel		aliaisia katalaan	Front Pa	nel			Back Pa	nel	
Shot	Avg. Vel.	Port	BFS		Avg. Vel.	Perf	BFS		Avg. Vel.	Pari	BFS		Avg. Vel.	Pari	BFS	
Number	(ft/sec)	(Y=1/N×9)	(mm)	Note	(fUsec)	(Y=1/N=0)	(mm)	Note	(Itisec)	(¥≤1/N≂0)	(mm)	Note	((l/sec)	(Y=1/N=0)		Note
1	1418.1	0	24.0	and the second sec	THE PARTY OF THE P			b	1398.3	0	26.0		1392.6	0	26.0	
2	1429.1	0	29.0		1395.7	Û	25 O		1417.1	0	24 0		14104	0	23.0	
3	1411.0	0	28.0		1417.7	0	24 0		1382.6	ú	29.0		1416.9	0	28.0	
4	1442.9	0			1410.8	0	38.0		1437.4	0			1411.0	0		
5	1441.2	0			1440.8	0			1430 7	0			1425 7	0		
6	1445.9	Û			1432.8	0			1436.6	0			1429.2	0		
7	1.1.1010				1443 33	0							l			
8																
Summar	<u>ר</u> אי עי	Perfor	ations	0	(Pass)	-Henry Contractor		*******	1	Perfor	ations	0	(Pass)			
a carrentar	¥.	Махітип			, .	equiremen	nD .			Maximun	n BFS	29.0	mm (no i	equiremen	nt)	
	Sample	23		Size:	<u>C-5</u>	Back Pa	nel		Sample	24 Front Pa	nel	Size:	<u>C-1</u>	Back Pa	nel	
		Front Pa	BFS		Avg. Vel.	Perf	BFS		Avg. Vel.		BFS		Avg. Vel.		BFS	
Shot	Avg. Vel.	Perf (Y=1/N=0)		Note	(tusec)	(Y=1/N=0)		Note	(filsec)	(Y≈1/N=0)		H010	(Neec)	(Y=1/N=0)	(mm)	Note
Number 1	1345.5	0	33.0	Joure	1354.5	0	33.0		1338.5	0	37.0		13410	0	34.0	
2	1040.0	U U	00.0	b	1337.7	õ	36.0		1355.3	0	35.0		1349.5	0	34.0	
3	1331.4	0	33.0	2	1349.5	0	37.0		1318 9	0	34.0		1351 2	0	34.0	
4	1312.6	ő	36.0		1350.3	Ď			1354.4	0			1350.4	Ó		
5 5	1339.0	ő	10 , 10 m		1342.9	ő			1326 4	0			1338.8	0		
6	1343 8	Ď			1347.7	ō			1339.5	0			1324 9	0		
7	1345.07															
é	1	Ť														
Summar	, rv:	Perfor	ations:	0	(Pass)	WATERCOOL FROM THE POSTAL		*****		Perfor	ations:	0	(Pass)			
Gamma		Maximur			mm (no	requireme	nt)			Maximur	n BFS.	37.0	mm (no	requireme	nl)	
					AND COLORED A MONOR ON AN AN AN AN AN			90-9400 (ministrative filler)								
						Öv	erall P	-BFS S	Summary							
Da-4	forations:	0	This a	rmot m	odel mee	ts the perf	oration	pertor	mance rec	juirements	LIN to	Standa	ard-0101.(26 Section	7.8 8.	
ren																

Compliance Test Report revision 354 (2000-03-09) / Riversion 2 / 1 (2009-06-23) / MS Excel version 11 0 / Operating System version Windows (32-bit) NE 5.01

Ballistic Limit Summary Data

								<u>it Summ</u>	ary D	ata				100000	
Report	Number:	09N0			Test ID:		-000387		DA 34		Report	Date:		4/02/09	2 ^
Manu	facturer:	Safariland	t			- M	odel Desi	gnation:	BA-3A	UUUS-BR	11		NIJ Arm	or Type: _	<u>3A</u>
						Th	reat 1 - N	ew Armor	,						
۸mn	nunition:	.357 8	SIG	125/	FMJ			Velocity:		± 30 ft/s			Cond	itioning:	Dry
~000	nunnuon							• •							
	Sample	11		Sample	11		Sample	12		Sample	12		Sample	13	
	Front	Panel		Back	Panel			Panel		Back	Panel			Panel	
Shot	Avg. Vel.	Perf		Avg. Vel.	Perl		Avg. Vel.	Perf		Avg, Vel.	Perf		Avg. Vel.	Perí	
Number	((Vsec)	(Y≏1/N=0)	Note	(IVsec)	(Y=1/N=0)	Note	(tt/sec)	(Y=1/N=0)	Note	(ft/sec)	(Y=1/N=0)	Note	(ft/sec)	(Y=1/N=0)	Note
1	1484.2	0		1428.1	0		1466.0	0		1455 5	0		1439.7	0	
2	1563.6	0		1598.1	0		1605.2	0		1585.0	0		1583.6	0	
3	1615.5	0		1700.5	0		1667.3	0		1697.2	0		1674.3	0	
4	1723.2	0		1854.3	0		1813.6	1		1749.1	1		1769.1	0	
5	1839.0	1		1888.2	1		1719.2	0		1710 5	0		1826.9	1	
6	1764.4	0		1841.0	1		1740.9	0		1725.2	0		1782.2 1798.55	0	
7	1817.2	1		1749.54	0		1817.2	0		1791.63			{	1	
8	1773.32			1800,24	0		1859.93	0		1748.59			1787.72	1	
9	1828.4	1		1877.3	1		1881.31	1		1759.87			1743.32	0	
10	1744.91			1795.61	0		1849 78			1845.13			1743.96	0	
11	1798.6			1879.82			1899.08			1788.67	1		1730.73	Q	
12	1738.13	5 0		1816.92	1		1838.61	1		1821.2	1		1730.10	1.4	
13							1								
14															
15				Camala	14		Sample	14		Sample	15		Sample	15	
	Sample			Sample Front	Panel		Back	Panel		Front	Panel		Back	Panel	
	Back	Panel		Avg. Vel.	Perf		Avg. Vel.			Avg, Vel.			Avg. Vel.	Perf	
Shot	Avg. Vel.		Main	(fVsec)	(Y=1/N=0) Nota	(It/sec)	(Y=1/N=0)	Note	(fil/sec)	(Y=1/N=0)	Note	(ft/sec)	(Y=1/N=0)	Note
Number	(It/sec) 1465.9	(Y=1/N=0) ()	Note	1472.3	0	1 11010	1403.0	0		1433.7	0		1485.3	0	and the second se
1 2	1405.9			1575.3	0		1574.8	1		1555.9	0		1555.4	0	
	1683.2			1649.6	ŏ		1493.1	0		1621.6	0		1655.0	0	
3	1740.3			1739.9	Ő		1577.8	0		1686.2	0		1738.1	0	
4 5	1820.5			1876.2	1		1578.3	0		1775.2	1		1825.0	1	
6	1775 1			1802.8	0		1671.5	0		1742.7	1		1745.5	0	
7	1699.26			1819.52			1686.7	0		1640.32	2 0		1783.32	0	
8	1746.4			1742.68			1754.54	0		1717.49	0 (1831.5	1	
9	1719.82			1799.91			1773.55	5 T		1748.37	7 1		1803.25		
10	1741.5			1753.25	i 1		1727.34	0		1714.13			1731.67		
11	1797.88			1698.4	0		1762.09	0		1750.83			1793.03		
12	1849.0	1 1		1758.31	0		1814.79) 1		1829.8	1		1814.56	1	
13															
14															
15												00 01	<u> </u>	Caral	
Summa	агу:	То	tal Usa	able Shots		Good			P	erforation	s below 15	500 tVs	: 0	Good	
F	Perforation	ns (Comple	ete Per	netrations)	: 40	Good		Tect	Data	and Roor	ession Mo	hdel			
	Ş	Stops (Part	tial Per	netrations)	; 80	Good		1630	Data	ana Kegi	Caston m	Jaon			
	_									<i>1</i> 0.	co. comence. And.				
		ession An			1	0		,	1	. 1	1.				
		sion Model		ogistic).9 -				1	. /			Test Data	
	Model P	arameters	- β(β1			0.8	• •				A' /		Aug. 1000000000000000000000000000000000000	V Ref.	.
			11	i, 0.02	h.,	0.6					•				
	Calie	mated V50	478	9 ft/s	pili () 5							eminitare e	V Ref. + 3	
	esu	nateo voo	. 175	5 103	pa)	14]			4-2019/00/00/07/07	- Est. Resp	onse
	Entre	mated V05	167	7 ft/s	h)3					1.		xia siti	 Est V50 	
	CSII	nateu vuo	. 107)2 ·					1 .	[RECORDERS		
Drol	hahilitu of	perforation	n at NI.	J referenc	e) 1				· · · · /	ai -			· · · · · · · · · · · · · · · · · · ·	
P10	elocity /1	470 ft/sec)	0.01	% Good		0.0				ecoercilies		, 			
	GIUGILY ()	-10 ((300)	. 0,0	,,	`	1000	1200	140)	1600	1800	2000)		<u>ч</u>
						1000	1600			Ales and a			an a	5 Y Y Y Y Y	
								Ve	nocity (ເທຣ) 10	e in b	a dar	1.8 1.1	er tokata.	$_{\rm M} (1,1) \in \{1\}$
							and a second statement of the second statement of the second statement of the second statement of the second st	2 8 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		minipipantatic				11	للاحتجد
									26.22.6		-				

Administration Reynlation. Page t of 3 Diversion contrary to 17.5, law is prohibited BAE Systems

Ballistic Limit Summary Data

						<u>Ballis</u>	stic Lim	it Summ	<u>ary C</u>)ata					
Report N	Number:	09N0	12		Test ID:	SAF09	-000387				Report	Date:)4/02/09	
		Safariland	1			M	odel Desi	gnation:	BA-3A	000S-BR	01		NIJ Arm	or Type: _	<u>3A</u>
						Th	root 2 . N	ew Armoi							
A	unition	.44 M	26	240/8	SIHP			Velocity:		+ 30 ft/s			Cond	litioning:	Drv
AHID	unnuon.	·····	ay	24070	2011	-	1001	(dibbity)	1,00					J	and the second second
Ī	Sample	16		Sample	16		Sample	17		Sample	17		Sample	18	
+	Front	Panel			Panel		Front	Panel		Back	Panel		Front	Panel	
Shot	Avg. Vel.	Pert		Avg. Vel.	Perl		Avg. Vel.	Perf		Avg. Vel.	Perf		Avg. Vel,	Peri	
Number	(ft/sec)	(Y=1/N=0)	Note	(IVsec)	(Y=1/N=0)	Note	(fUsec)	(Y=1/N=0)	Note	(It/sec)	(Y=1/N=0)	Note	(ft/sec)	(Y=1/N=0)	Note
1	1442.9	0		1446.1	0		1442.9	0		1450.4	0		1462.5	0	
2	1505.7	0		1549.4	0		1548.9	0		1549.4	0		1548.7	0	1
3	1568.5	0		1651 3	0		1646.9	0		1646.3	0		1648.6	0	
4	1640.0	0		1725.3	0		1749.5	1		1740.7	1		1738.5	Q	
5	1710.0	1		1802.6	1		1678.7	1		1666.2	1		1833.2	1	
6	1664.4	0		1732.9	1		1590.4	0		1573.8	0		1766.5	1	
7	1703.75	1		1691.97	1		1632.37	0		1620.78	0		1714.2	Ŭ	
8	1660.24	1		1636.43	0		1667.83	1		1660.58	0		1745.22		
9	1625.66	0		1674.17	1		1631.26	0		1695.23			1706.69	1	
10	1664.78	1		1631.03	0		1665.6	0		1649.39			1675.83		
11	1630.47	O		1677.85	1		1685.6	0		1699.15			1594.74		1
12	1652.48	0		1640.84	0		1737.18	0		1744.59	0		1652.15	0	
13															
14															
15											00		<u> </u>	20	
	Sample			Sample	19		Sample	19		Sample	20		Sample Back	Panel	
	Back	Panel		Front	Panel		Back	Panel		Front	Panel		1	Perf	
Shot	Avg, Vel.			Avg. Vel.	Perf		Avg, Vel.	Perl		Avg. Vel.	Perl	Alata	Avg. Vel.	(Y=1/N=0)	Note
Number	(IVsec)	(Y=1/N=0)	Note	(ft/sec)	(Y=1/N=0) Note	(ft/sec)	(Y=1/N=0)	Note	(fusec) 1423.4	(Y=1/N=0) O	Note	(ft/sec) 1406.1	0	TADIA
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Ballistic Limit Summary Data

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Threat 2: 0.7%

This armor model meets the estimated V05 performance requirements of NIJ Standard-0101.06 Section 7.9.5.

Compliance Test Report revision 354 (2009-03-08) / Riversion 2.7.1 (2008-06-23) / MS Excel version 11.0 / Operating System version Windows (32-bit) NT 5,01

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A Product of the Safariland™ Company

TECHNICAL SPECIFICATION RAPID RESPONSE™

Outer Shell	Water repellant 1000 Denier Cordura [®]		
Inner Lining	420 Denier diamond rip-stop nylon		
Ballistic Coverage (Standard - LG/R)	702.34 in ² of front, back, overlapping side, overlapping shoulder, and neck ballistic panel protection		
Armor Panel Access	Internal panel insertion system		
Plate Pocket	10" x 12" exterior, rifle plate pockets [front and back]		
Closure System	Permanent 8" elastic/hook and loop side closure system		
Carrier Configuration	 Clean Snap and Velcro[®] 1-inch modular webbing system 		
Additional Features	 Fully adjustable shoulder straps Officer extraction rescue strap Dual weapon retention material Dual wire channel [internal] Dual mic tabs on both shoulders ID platforms [front and back hook and loop] Pull down groin attachment system Permanent neck protection Internal cummerbund 		
Options	 Detachable throat protection Detachable upper arm [bicep] protection Detachable femoral artery/groin protection Detachable pull down groin protection ID Patches [sheriff / police] 10" x 12" and 6" x 6" Type III / IV rifle plates PROTECH TP tactical pouches Fire retardant Advanced Nomex[®] material 		
Sizes	S-6XL		
Colors	Black, Navy, Khaki, Tactical Green, Ranger Green, Universal Camo [ACU], Digital Camo Woodland, Digital Camo Day Desert, Digital Camo Urban, Multi-Cam, A-TACS [®]		

SAFARILAND.



Rapid Response[™] Tactical Carrier Bid Specification

1. Scope:

The scope of this product specification provides information relating to the PROTECH[®] Rapid Response Tactical Carrier manufactured by Safariland[™].

2. Research, Development, and Manufacturing:

The manufacturer (Safariland[™]) of the armor model, as listed on the NIJ's Compliant Product List (CPL), solely performs the research, development, and manufacturing capabilities described below. Other manufacturers of armor models listed on the CPL that have outsourced similar capabilities shall be deemed as inferior.

Capabilities	Internal	Out Sourced
Soft Armor Research and Development	X	
Hard Armor Research and Development	X	
Soft and Hard Armor Ballistic, Stab and Fragmentation Testing	X	
Soft and Hard Armor Non-Destructive and Destructive Testing	X	
Carrier Research and Development	X	
Domestic Soft and Hard Armor Manufacturing Facilities	X	
Domestic and International Carrier Manufacturing Facilities	Х	

3. Carrier Design (Ballistic Coverage Capability):

The PROTECH[®] Rapid Response[™], in a large/regular size, offers the wearer 702.34 in² (total area) of front, back, overlapping side, overlapping shoulder, and neck ballistic panel coverage. The ballistic panel coverage (total area) stated does not reflect larger or smaller carrier sizes and/or optional accessories. For individual optional accessory ballistic coverage total area, please refer to section five (5) of this specification.

4. Carrier Design (Functionality):

The PROTECH[®] Rapid Response[™] has the following design features related to the functionality:

Feature(s)	Definition(s)	Benefit(s)
Internal Panel Insertion System	An internal panel insertion system that includes a horizontal Velcro® hook and loop attachment system that allows for the insertion of the armor panels from the interior of the carrier.	Provides the ability to insert / remove armor panels quickly and easily and also enables the cleaning of the carrier and armor panels separately as necessary
Dual Weapon Retention System	A weapon retention system located in both shoulder areas of the front of the carrier	Provides that ability to align the weapon comfortably, according to individual shooting positions, and retain the butt of a rifle or shotgun in all types of weather.
Modular Webbing Attachment System	A sewn on 1-inch modular webbing attachment system that covers a majority of the front and rear portions of the carrier, to include 360° circumference of the lower torso.	Provides the ability to attach a fully customizable assortment of PROTECH [®] Tactical TP pouches and accessories
Tactical Pouch Selection (Detachable)	A full selection of tactical pouches for most types of ammunition magazines, less lethal munitions, and miscellaneous accessories as an optional accessory.	Provides a secure means of carrying a full array of mission essential equipment and accessories, along with the ability to balance the total load across the entire tactical carrier
Snap and Velcro [®] Attachment System	A sewn on Snap and Velcro [®] attachment system that covers the majority of the front and rear portions of the carrier as an optional modular configuration	Provides the ability to attach a fully customizable assortment of Snap and Velcro [®] pouches and accessories

4. Carrier Design (Functionality) – continued:

Feature(s)	Definition(s)	Benefit(s)
Officer Extraction Rescue Strap	A reinforced rescue strap located in the upper back area of the rear of the carrier	Provides the ability to extract a down officer from a hostile fire environment
Radio Wire Channel	A radio wire channel allows for the mounting of a radio on the rear portion of the carrier and feeding of the microphone handset wire through a hidden channel to the front of the carrier.	Prevents the microphone handset wire from being hung-up or snagged during urban or woodland operations
Radio Microphone Tabs	A radio microphone tab available on both the right and left shoulder area of the front of the carrier that is capable of holding a wide variety of microphone handsets.	Provides the ambidextrous mounting of the microphone handset on the front of the tactical carrier within close proximity of the ears for increased communication
Identity Attachment Area (Modular Webbing Attachment w/ Velcro [®] Loop)	A platform on the front and back carrier for the attachment of four-inch wide identities with one-inch interlacing strips and Velcro [®] loop material.	Provides the flexibility of using the identity attachment area for either identities or tactical pouches
Colors and Camouflage Patterns	Available in the following colors and camouflage patterns: Black, Navy, Khaki, Tactical Green, Ranger Green, Digital Universal Camo (Army Combat Uniform), Digital Urban Camo, Digital Woodland, Digital Day Desert, Multi-Cam, A-TACS [®]	Provides the ability to choose between a wide variety of colors and camouflage patterns for concealment within urban and open terrain environments

5. Carrier Design (Upgradability):

The PROTECH[®] Rapid Response[™] has the following design features related to the upgradability:

Feature(s)	Definition(s)	Benefit(s)
External Top Loading Plate Pocket (Front and Rear)	A plate pocket in the front and rear of the carrier that allows for the insertion of 10" x 12" PROTECH [®] special threat plates from an external, top loading orientation	Provides the ability to insert a wide variety of special threat plates that upgrades the level of protection over the center torso area of the body
Overlapping Shoulder Protection (Integrated)	An overlapping shoulder protection system that is integrated into the shoulder adjustment system of the carrier	Provides protection of the shoulder areas of the body
Neck Protection (Permanent)	A permanent neck protection in the form of a scooped collar that is fixed to the rear carrier and eliminates interference with the neck in all types of operations	Provides protection of the neck area of the body
Throat Protection (Detachable)	A detachable throat protection that offers 42.39 in ² of ballistic coverage and attaches to the carrier through a Velcro® hook and loop attachment system as an optional accessory.	Provides protection of the throat area of the body
Upper Arm Protection (Detachable)	A pair of detachable upper arm protection that offers 170.38 in ² of ballistic coverage (each arm) and attaches to the carrier through a Velcro [®] hook and loop attachment system as an optional accessory.	Provides protection of the upper arm areas of the body
Upper Arm Special Threat Plate Pocket	A special threat plate pocket incorporated into the upper arm protection for insertion of 6" x 6" PROTECH [®] mini-side special threat plates.	Provides the ability to insert special threat plates that upgrades the level of protection over the upper arm areas of the body

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5. Carrier Design (Upgradability) - continued:

Feature(s)	Definition(s)	Benefit(s)
Pull Down Groin Protection (Detachable)	A detachable pull down groin protector that offers 91.19 in ² of ballistic coverage and attaches to the carrier through a Velcro [®] hook and loop attachment system as an optional accessory.	Provides protection of the groin area of the body
Enhanced Groin Protection (Detachable)	A detachable, diamond shaped, enhanced groin protector that offers 147.29 in ² of ballistic coverage and attaches to the carrier through a Velcro [®] hook and loop attachment system as an optional accessory.	Provides protection of the groin and femoral artery areas of the body

6. Carrier Design (Adjustability):

The PROTECH[®] Rapid Response[™] has the following design features related to adjustability:

Feature(s)	Definition(s)	Benefit(s)
Adjustable Shoulder Closure System (Velcro [®] Hook & Loop)	An adjustable shoulder closure system that utilizes Velcro [®] hook and loop attachment system on both the front and rear carriers	Provides the ability to adjust the shoulders from the front of the carrier, along with the ability to adapt to a wide range of chest circumferences. Allows for complete separation of the front and back portions of the carrier for expedient removable of carrier for emergencies.
Adjustable Side Closure System (Velcro [®] Hook & Loop)	An adjustable side closure system that effectively utilizes a fixed 8" wide elastic and Velcro [®] hook and loop attachment on both the front and rear carriers	Provides the ability to adjust the sides from the rear of the carrier, along with the ability to adapt to a wide range of girth circumferences. Allows for complete separation of the front and back portions of the carrier for expedient removable of carrier for emergencies.
Internal Cummerbund Retention System (Permanent)	An internal cummerbund made of a combination of elastic and Velcro [®] hook and loop material that is permanently sewn to the rear section of the carrier	Provides the ability to secure the rear portion of the carrier to the body as the front portion of the carrier secures using the adjustable side closure system.

7. Carrier Design (Durability):

The PROTECH[®] Rapid Response[™] has the following design features related to durability:

Feature(s)	Definition(s)	Benefit(s)
1,000 Denier Cordura [®] Material	A durable, abrasion resistant, cut, tear, and water resistant material used for the exterior of the carrier.	Provides a durable, water resistant material to protect the armor panels and resists the negative effects of exposure to high temperatures and "dry- rotting." Maintains color over time and resists discoloring when exposed to abrasion and wear. Serves as a platform for attaching a wide variety of loads through the modular webbing attachment system.
420 Denier Diamond Rip- Stop Nylon Material	A durable, lightweight, comfortable, and reinforced nylon used for the interior of the carrier.	Provides a durable material to protect the armor panels and prevents skin abrasion that allows carrier the ability to stay cool and adjust to body positions in all types of operations. Serves as a platform for attaching removable spacer mesh inserts, upper arm protection, collar and groin protection through Velcro® hook and loop.
Grip / Non-Skid Material	A strong, wear and abrasion resistant material offering grip and non-skid features in both wet and dry conditions.	Provides a durable reinforced area in the shoulder area of the front of the carrier for added flexibility associated with the retention of the butt of a weapon during the shouldering of a sub gun, rifle, or shotgun
High Profile Velcro [®] Hook and Loop	A durable, heavy duty fastening solution, made of woven nylon, that delivers a strong hold and removes easily when needed	Provides a secure means of attaching the tactical carrier's shoulder closure system, side closure system, optional accessories and identities

30 March 2011

Approved for public release; distribution is unlimited

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8. Availability:

Classification(s)	Current Status
Side Opening	Yes
Front Opening	No
Sizes	S – 6XL

9. Support Programs:

Classification(s)	Current Status
Warranty	12 Months
Quality Assurance Program(s)	ISO 9001 / Vest Check Program
Safety Assurance Program(s)	OHSAS 18001
Environmental Assurance Program(s)	ISO 14001
Liability Insurance	Information Available Upon Request

SAFARILAND.



Rapid Response F1[™] Tactical Carrier Bid Specification

1. Scope:

The scope of this product specification provides information relating to the PROTECH[®] Rapid Response F1[™] Tactical Carrier manufactured by Safariland[™].

2. Research, Development, and Manufacturing:

The manufacturer (Safariland[™]) of the armor model, as listed on the NIJ's Compliant Product List (CPL), solely performs the research, development, and manufacturing capabilities described below. Other manufacturers of armor models listed on the CPL that have outsourced similar capabilities shall be deemed as inferior.

Capabilities	Internal	Out Sourced
Soft Armor Research and Development	X	
Hard Armor Research and Development	X	
Soft and Hard Armor Ballistic, Stab and Fragmentation Testing	X	
Soft and Hard Armor Non-Destructive and Destructive Testing	Х	
Carrier Research and Development	X	
Domestic Soft and Hard Armor Manufacturing Facilities	X	
Domestic and International Carrier Manufacturing Facilities	X	

3. Carrier Design (Ballistic Coverage Capability):

The PROTECH[®] Rapid Response F1[™], in a large/regular size, offers the wearer 761.33 in² (total area) of front, back, overlapping side, overlapping shoulder, and neck ballistic panel coverage. The ballistic panel coverage (total area) stated does not reflect larger or smaller carrier sizes and/or optional accessories. For individual optional accessory ballistic coverage total area, please refer to section five (5) of this specification.

4. Carrier Design (Functionality):

The PROTECH[®] Rapid Response F1[™] has the following design features related to the functionality:

Feature(s)	Definition(s)	Benefit(s)
Front Opening Design	A front opening design that incorporates a minimum planned ballistic overlap of four inches across the full length of the zipper portion of the carrier	Provides the ability to open the carrier from the front in addition to the side closure system.
Internal Panel Insertion System	An internal panel insertion system that includes a horizontal Velcro [®] hook and loop attachment system that allows for the insertion of the armor panels from the interior of the carrier.	Provides the ability to insert / remove armor panels quickly and easily and also enables the cleaning of the carrier and armor panels separately as necessary
Dual Weapon Retention System	A weapon retention system located in both shoulder areas of the front of the carrier	Provides that ability to align the weapon comfortably, according to individual shooting positions, and retain the butt of a rifle or shotgun in all types of weather.
Modular Webbing Attachment System	A sewn on 1-inch modular webbing attachment system that covers a majority of the front and rear portions of the carrier, to include 360 [°] circumference of the lower torso.	Provides the ability to attach a fully customizable assortment of PROTECH [®] Tactical TP pouches and accessories
Tactical Pouch Selection (Detachable)	A full selection of tactical pouches for most types of ammunition magazines, less lethal munitions, and miscellaneous accessories as an optional accessory.	Provides a secure means of carrying a full array of mission essential equipment and accessories, along with the ability to balance the total load across the entire tactical carrier

4. Carrier Design (Functionality) – continued:

Feature(s)	Definition(s)	Benefit(s)
Snap and Velcro [®] Attachment System	A sewn on Snap and Velcro [®] attachment system that covers the majority of the front and rear portions of the carrier as an optional modular configuration	Provides the ability to attach a fully customizable assortment of Snap and Velcro [®] pouches and accessories
Officer Extraction Rescue Strap	A reinforced rescue strap located in the upper back area of the rear of the carrier	Provides the ability to extract a down officer from a hostile fire environment
Radio Wire Channel	A radio wire channel allows for the mounting of a radio on the rear portion of the carrier and feeding of the microphone handset wire through a hidden channel to the front of the carrier.	Prevents the microphone handset wire from being hung-up or snagged during urban or woodland operations
Radio Microphone Tabs	A radio microphone tab available on both the right and left shoulder area of the front of the carrier that is capable of holding a wide variety of microphone handsets.	Provides the ambidextrous mounting of the microphone handset on the front of the tactical carrier within close proximity of the ears for increased communication
Identity Attachment Area (Modular Webbing Attachment w/ Velcro [®] Loop)	A platform on the front and back carrier for the attachment of four-inch wide identities with one-inch interlacing strips and Velcro [®] loop material.	Provides the flexibility of using the identity attachment area for either identities or tactical pouches
Colors and Camouflage Patterns	Available in the following colors and camouflage patterns: Black, Navy, Khaki, Tactical Green, Ranger Green, Digital Universal Camo (Army Combat Uniform), Digital Urban Camo, Digital Woodland, Digital Day Desert, Multi-Cam, A-TACS [®]	Provides the ability to choose between a wide variety of colors and camouflage patterns for concealment within urban and open terrain environments

5. Carrier Design (Upgradability):

The PROTECH[®] Rapid Response F1[™] has the following design features related to the upgradability:

Feature(s)	Definition(s)	Benefit(s)
Internal Side Loading Plate Pocket (Front only)	A plate pocket in the front of the carrier that allows for the insertion of a 10" x 12" PROTECH [®] special threat plates from an internal, side loading orientation	Provides the ability to insert a wide variety of special threat plates that upgrades the level of protection over the center torso area of the body
External Top Loading Plate Pocket (Rear only)	A plate pocket in the rear of the carrier that allows for the insertion of a 10" x 12" PROTECH [®] special threat plates from an external, top loading orientation	Provides the ability to insert a wide variety of special threat plates that upgrades the level of protection over the center torso area of the body
Overlapping Shoulder Protection (Integrated)	An overlapping shoulder protection system that is integrated into the shoulder adjustment system of the carrier	Provides protection of the shoulder areas of the body
Neck Protection (Permanent)	A permanent neck protection in the form of a scooped collar that is fixed to the rear carrier and eliminates interference with the neck in all types of operations	Provides protection of the neck area of the body
Throat Protection (Detachable)	A detachable throat protection that offers 38.51 in ² of ballistic coverage and attaches to the carrier through a Velcro [®] hook and loop attachment system as an optional accessory.	Provides protection of the throat area of the body
Upper Arm Protection (Detachable)	A pair of detachable upper arm protection that offers 170.38 in ² of ballistic coverage (each arm) and attaches to the carrier through a Velcro [®] hook and loop attachment system as an optional accessory.	Provides protection of the upper arm areas of the body

5. Carrier Design (Upgradability) – continued:

Feature(s)	Definition(s)	Benefit(s)
Upper Arm Special Threat Plate Pocket	A special threat plate pocket incorporated into the upper arm protection for insertion of 6" x 6" PROTECH [®] mini-side special threat plates.	Provides the ability to insert special threat plates that upgrades the level of protection over the upper arm areas of the body
Fold Down Groin Protection (Detachable)	A detachable fold down groin protector that offers 91.19 in ² of ballistic coverage and attaches to the carrier through a Velcro [®] hook and loop attachment system as an optional accessory.	Provides protection of the groin area of the body
Enhanced Groin Protection (Detachable)	A detachable, diamond shaped, enhanced groin protector that offers 147.29 in ² of ballistic coverage and attaches to the carrier through a Velcro [®] hook and loop attachment system as an optional accessory.	Provides protection of the groin and femoral artery areas of the body

6. Carrier Design (Adjustability):

The PROTECH[®] Rapid Response F1[™] has the following design features related to adjustability:

Feature(s)	Definition(s)	Benefit(s)
Adjustable Shoulder Closure System (Velcro [®] Hook & Loop)	An adjustable shoulder closure system that utilizes Velcro [®] hook and loop attachment system on both the front and rear carriers	Provides the ability to adjust the shoulders from the front of the carrier, along with the ability to adapt to a wide range of chest circumferences. Allows for complete separation of the front and back portions of the carrier for expedient removable of carrier for emergencies.
Adjustable Side Closure System (Velcro [®] Hook & Loop)	An adjustable side closure system that effectively utilizes a fixed 8" wide elastic and Velcro [®] hook and loop attachment on both the front and rear carriers	Provides the ability to adjust the sides from the rear of the carrier, along with the ability to adapt to a wide range of girth circumferences. Allows for complete separation of the front and back portions of the carrier for expedient removable of carrier for emergencies.
Internal Cummerbund Retention System (Permanent)	An internal cummerbund made of a combination of elastic and Velcro [®] hook and loop material that is permanently sewn to the rear section of the carrier	Provides the ability to secure the rear portion of the carrier to the body as the front portion of the carrier secures using the adjustable side closure system.

7. Carrier Design (Durability):

The PROTECH[®] Rapid Response F1^{$^{+}$} has the following design features related to durability:

Feature(s)	Definition(s)	Benefit(s)
1,000 Denier Cordura [®] Material	A durable, abrasion resistant, cut, tear, and water resistant material used for the exterior of the carrier.	Provides a durable, water resistant material to protect the armor panels and resists the negative effects of exposure to high temperatures and "dry- rotting." Maintains color over time and resists discoloring when exposed to abrasion and wear. Serves as a platform for attaching a wide variety of loads through the modular webbing attachment system.
420 Denier Diamond Rip- Stop Nylon Material	A durable, lightweight, comfortable, and reinforced nylon used for the interior of the carrier.	Provides a durable material to protect the armor panels and prevents skin abrasion that allows carrier the ability to stay cool and adjust to body positions in all types of operations. Serves as a platform for attaching removable spacer mesh inserts, upper arm protection, collar and groin protection through Velcro [®] hook and loop.

7. Carrier Design (Durability) - continued:

Feature(s)	Definition(s)	Benefit(s)
Grip / Non-Skid Material	A strong, wear and abrasion resistant material offering grip and non-skid features in both wet and dry conditions.	Provides a durable reinforced area in the shoulder area of the front of the carrier for added flexibility associated with the retention of the butt of a weapon during the shouldering of a sub gun, rifle, or shotgun
High Profile Velcro [®] Hook and Loop	A durable, heavy duty fastening solution, made of woven nylon, that delivers a strong hold and removes easily when needed	Provides a secure means of attaching the tactical carrier's shoulder closure system, side closure system, optional accessories and identities

8. Availability:

Classification(s)	Current Status	
Side Opening	No	
Front Opening	Yes	
Sizes	S – 6XL	

9. Support Programs:

Classification(s)	Current Status 12 Months ISO 9001 / Vest Check Program OHSAS 18001	
Warranty		
Quality Assurance Program(s)		
Safety Assurance Program(s)		
Environmental Assurance Program(s)	ISO 14001	
Liability Insurance	Information Available Upon Request	

SAFARILAND.



A Product of the Safariland™ Company

TECHNICAL SPECIFICATION RIFLE PLATE - 2120-5

Test Standard	NIJ: 0101.06	
Model	NIJ: 2120-5	
Threat Type	Type III; Stand-Alone	
Number of Impacts	6 Hits	
Test Round	7.62 x 51 mm, 147gr., FMJ [NATO]	
Cut	Shooters	
Curvature	Multi	
Ballistic Material	Ceramic / Polyethylene / Fiberglass	
Cover Material	1000-Denier Cordura®	
Thinness [inches]	0.95 (approx.)	
Weight [pounds]	5.8 (approx.)	
Size [inches]	10" x 12" (approx.)	
Additional Spec	cial Type Testing	
Threat Independently Tested	 7.62 mm x 51 mm 180 gr. PSP – 3 Impacts 7.62 mm x 54R mm 150 gr. LPS – 3 Impacts 7.62 mm x 39 mm 123 gr. MSC – 6 Impacts 5.56 mm x 45 mm 62 gr. [M855] [SS109] – 6 Impacts 5.56 mm x 45 mm 62 gr. Bonded SP – 6 Impacts 	

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2120-5 Rifle Plate Bid Specification

1. Scope:

The scope of this product specification provides information relating to the PROTECH[®] 2120-5 Rifle Plate manufactured by Safariland[™].

2. Research, Development, and Manufacturing:

The manufacturer (Safariland[™]) of the rifle plate solely performs the research, development, and manufacturing capabilities described below. Other manufacturers of rifle plates that have outsourced similar capabilities shall be deemed as inferior.

Capabilities	Internal	Out Sourced
Soft Armor Research and Development	X	
Hard Armor Research and Development	X	
Soft and Hard Armor Ballistic, Stab and Fragmentation Testing	X	
Soft and Hard Armor Non-Destructive and Destructive Testing	X	
Carrier Research and Development	X	
Domestic Soft and Hard Armor Manufacturing Facilities	X	
Domestic and International Carrier Manufacturing Facilities	X	

3. Plate Design (Size/Weight/Ballistic Coverage Capability):

The PROTECH[®] 2120-5 Rifle Plate measures 10" x 12" in size, is 0.95" thick, weighs 5.8 pounds, and offers 120 in² (total area) of ballistic coverage. All numeric figures listed in the previous sentence are approximate.

4. Plate Design (Material Construction):

The PROTECH[®] 2120-5 Rifle Plate has the following design features related to material construction:

Feature(s)	Definition(s)	Benefit(s)
Hybrid Technology	The use of multiple types of ballistic, fragmentation and blunt trauma resistant materials in an armor design	Provides the perfect balance between blunt trauma reduction and ballistic resistance against a wide array of bullets
Ceramic, Polyethylene, Fiberglass Materials	A ceramic, polyethylene, and fiberglass composite of materials used as the primary ballistic elements of the rifle plate	Provides excellent ballistic (rifle) resistance properties during impact (energy absorption) and after the ballistic engagement (energy dispersion/back face deformation reduction)
1,000 Denier Cordura [®] Outer Cover Material	A durable, abrasion resistant, cut, tear, and water resistant material used for the exterior outer cover of the rifle plate.	Provides a durable, water resistant material to protect the ballistic resistant material - in addition, it resists the negative effects of exposure to high temperatures and "dry-rotting." Maintains color over time and resists discoloring when exposed to abrasion and wear.

4. Plate Design (Shape):

The PROTECH[®] 2120-5 Rifle Plate has the following design features related to shape:

Feature(s)	Definition(s)	Benefit(s)
Military Style Shooter's Cut	An aggressive, military-style, steep angled cut into both top corners of the rifle plate that is more significant than typical slightly clipped corners	Provides increased mobility and range of motion to the wearer's arms when situated in a shooting stance or shouldering the butt of a rifle.

10 May 2011

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Rev. 4

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Plate Design (Shape) – continued: 4.

Feature(s)	Definition(s)	Benefit(s)
Multi-Curvature	The combination of a 14-degree left to right curvature radius with each of the four corners of the plate also making identical additional curves toward the wearer's body.	Provides a more natural, comfortable fit to the wearer's body

5. Plate Design (Ballistic Performance):

The PROTECH® 2120-5 Rifle Plate has the following performance characteristics as documented through a combination of NIJ 0101.06 (ballistic resistance of body armor) compliance testing summary reports, Independent NIJ 0101.06 laboratory testing reports, and internal Safariland ballistic laboratory testing reports:

Feature(s)	Data	
Threat Type	111	
7.62mm 147gr. FMJ (NATO) (M80)	6 Impacts	
Additional Independent NIJ 0101.06 Laboratory Special Threat Testing	Data	
7.62 x 51mm 180gr. PSP (300 Winchester Mag)	3 Impacts	
7.62 x 54Rmm 150gr. LPS	3 Impacts	
7.62 x 39mm 123gr. MSC (Mild Steel Core)	6 Impacts	
5.56 x 45mm 62gr. (M855) (SS109)	6 Impacts	
5.56 x 45mm 62gr. Bonded SP	6 Impacts	

6. Support Programs:

Classification(s)	Current Status
Ballistic Warranty	5 Years
Workmanship Warranty	1 Year
Quality Assurance Program(s)	ISO 9001
Safety Assurance Program(s)	OHSAS 18001
Environmental Assurance Program(s)	ISO 14001
Liability Insurance	Information Available Upon Request

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SAFARILAND 2 of 2



U.S. Department of Justice

Office of Justice Programs

National Institute of Justice

Washington, D.C. 20530

December 9, 2009

Scott O'Brien President Safariland, LLC 3120 East Mission Blvd Ontario, CA 91761

> Notice of Compliance with NIJ Standard–0101.06 Body Armor Model Designation: 2120-5 NIJ Compliance Status Expires: December 9, 2014

Dear Mr. O'Brien:

We have completed our evaluation of the body armor model identified above that was submitted to the National Institute of Justice's (NIJ's) Voluntary Body Armor Compliance Testing Program. We are pleased to inform you that the above body armor model satisfies the requirements of NIJ Standard–0101.06 and the Compliance Testing Program.

We also received your completed declaration concerning the model noted above and your agreement to participate in the conformity assessment follow-up process.

The body armor model details are listed on the NIJ Compliant Products List available at www.justnet.org/CTP.

You are now authorized to place the NIJ Statement of Compliance on the labels of this body armor model and all subsequent production units. The Statement of Compliance shall read:

"This model of armor has been determined to comply with NIJ Standard–0101.06 by the NIJ Compliance Testing Program and is listed on the NIJ Compliant Products List."

All compliance requirements, as identified by the *NIJ Body Armor Compliance Testing Program Administrative Manual* and the *Ballistic Body Armor Applicant Package*, must be maintained as long as the NIJ Statement of Compliance is displayed on this armor model's labels. If, at any time, the compliance status of this armor model is changed, the NIJ Statement of Compliance shall cease to be used as of the date of the status change.

Sincerely,

John & Sho

Debra Stoe Physical Scientist National Institute of Justice

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This is Revision Number:

354

Revision Date:

3/9/2009

Official NIJ-Approved Test Laboratory Compliance Testing Report (CTR) **Document Status:** Do not modify this document. If problems or issues with this CTR are disco

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vered please contact the CTP so they can be resolved.

GENERAL INSTRUCTIONS:

- These worksheets are intended as a method of recording and documenting ballistic test results from tests performed to the requirements of NIJ Standard-0101.06 for body armor models that will be part of the NIJ body armor conformity testing program.
- 2. In gerneral, gray shaded cells are intended to be filled in by the test laboratory. All others cells are automatic calculations and should not be changed. Some shaded cells will fill in automatically; however, these cells may be manually filled in when necessary.
- 3. Many of the worksheets have their own instructions at the top of the sheet.
- 4. To fully utilize these spreadsheets, the R statistical package and the RExcel statistics connector will need to be installed on the computer where this speadsheet is used. These packages are not necessary for running a test or inputting data, but the ballistic limit summary ("BL Summary" worksheet) will not be completely calculated unless these packages are properly installed. Detailed instructions for obtaining and installing these packages is provided in the worksheet "Stats Install Instructions".
- 5. The laboratory may choose to modify the print header on the data and summary pages to include their name, logo, and applicable accreditation information.
- 6. The worksheet "Laboratory and Armor" should be filled in with the details of the test configuration and armor model.
- 7. The worksheet "Sample Information" should be filled in with the details of the individual armor samples that will be tested as part of the conformity test.
- 8. The worksheet "Handloads" can be used to record handload development data for each of the P-BFS test rounds. This worksheet is optional.
- 9. The worksheets "P-BFS..." are intended for recording the test results from each P-BFS sample. These worksheets are initially all identical. Many of the cells that fill in automically are filled in based on the name of the worksheet. When necessary, these sheets may be deleted and replaced by copying the worksheet "P-BFS Spare" and renaming the new copy. The name of each P-BFS sheet has the following form:

P-BFS <Condition> T<Threat Number> S<Sample Number>

Where:

- <Condition> is either "New" for as manufactured sampled or "Cond" for environmental conditioned samples.
 - <Threat Number> is the test round number from Table 4 in NIJ-0101.06.
 - <Sample Number> is the armor sample number as listed in the "Sample Information" worksheet. This number should always be listed as a two digit number, i.e. "02" instead of "2", in the worksheet name.
- 10. The worksheets "BL..." are intended for recording the test results from each ballistic limit sample. These worksheets are initially all identical. Many of the cells that fill in automically are filled in based on the name of the worksheet. When necessary, these sheets may be deleted and replaced by copying the worksheet "BL Spare" and renaming the new copy. The name of each BL sheet has the following form:
 - BL <Condition> T<Threat Number> S<Sample Number>

Where:

- <Condition> is either "New" for as manufactured sampled or "Cond" for environmental conditioned samples.
- <Threat Number> is the test round number from Table 4 in NIJ-0101.06.
- <Sample Number> is the armor sample number as listed in the "Sample Information" worksheet. This number should always be listed as a two digit number, i.e. "02" instead of "2", in the worksheet name.
- 11. The worksheets "P-BFS Summary" and "BL Summary" are automatically generated summaries of the respective test results. No input is required on this sheet, but these sheets will indicate whether the armor model meets the performance requirements of NIJ-0101.06.

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INSTRUCTIONS FOR INSTALLING R AND THE REXCEL STATISTICS CONNECTOR:

Requirements:

The ballistic limit summary worksheet in this spreadsheet requires the "R" statistics package and the "Rexcel" statistics connector for calculating the logistic regression, the V50, and the V05 repsone. To use this spreadsheets you will need to have the following software installed:

Microsoft Excel (version 2002 or newer).

The R statistical analysis package (version 2.2.1 or newer).

The R(D)com server (version 2.01 or newer).

The RExcel add-in for MS Excel (version 1.50 or newer).

The R statistical package, R(D)com server, and RExcel are all free software licensed under variants of the GNU General Public License (GPL). These packages should accompany this document, or they may be downloaded from the following locations:

R is available from http://www.r-project.org/

Specifically, the current version (2.8.1) can be downloaded from:

http://cran.cnr.berkeley.edu/bin/windows/base/R-2.8.1-win32.exe

http://cran.cnr.berkeley.edu/bin/windows/base/README.R-2.8.1

R(D)Com and Rexcel are available at:

http://sunsite.univie.ac.at/rcom/download/current/

Specifically, the current versions can be downloaded from:

http://sunsite.univie.ac.at/rcom/download/current/RSrv250_pl1.exe or:

or:

http://sunsite.univie.ac.at/rcom/download/current/RSrv250S.zip

(Note that RExcel is included in RSrv250_pl1.exe)

Additional information about R(D)Com and Rexcel is available from:

http://sunsite.univie.ac.at/rcom/

Installation:

- 1. Install Microsoft Excel, if it is not already installed on the computer.
- 2. Install R by running R-2.7.1-win32.exe (or a newer version). Accept the default installation options.
- 3. Install the R(D)Com server and RExcel by running RSrv250_pl1.exe (or a newer version). Again, accept the default installation options.

Test the installation by starting Excel and selecting "RExcel" on the main menu (If the RExcel add-in is properly installed, the RExcel menu item should appear between "Window" and "Help" on the Excel menu bar). Select "Demo Worksheets" and "Interactive Graphics". The demo spreadsheet should load and automatically generate a chart titled "A Test", which can be changed and regenerated by adjusting the sliders in the spreadsheet.

When R and RExcel are properly installed, this spreadsheet will automatically calculate the logisitic response curve, V50, and V05 for a set of ballistic limit test data. In addition, the installed versions of R and Excel will appear on both the "Laboratory and Armor" and "BL Summary" worksheets.

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COMPLIANCE TESTING INFORMATION FACILITY DESCRIPTION: **TESTING CERTIFICATION:** Test Laboratory: H.P. WHITE LABORATORY Report Number: 11137-06A Laboratory Representative: B.SHAFFER/L.CHES/C.BALL Witnessed by: AL LAFONTAINE Report Date: 05/15/09 Test Start Date: 05/14/09 Name SAFARILAND End Date: 05/14/09 Representing & witnessed by: NA Name NA Representing **RANGE INFORMATION:** Velocity 1: 5.00 ft. Velocity 2: 5.00 ft. TIME Velocity Measurement Units: Range Length: 50.30 ft. Chronographs will report the time of flight. ft. Data should be entered in µs (10^{^-6} s). ARMOR DESCRIPTION: Test ID: SAF09-000463 Armor Style: PLATE Manufacturer: SAFARILAND, LLC. Date Rec'd: 04/28/09 Style: NA NIJ Armor Type: 3 Model Designation: 2120-5 *Ballistic Material: HYBRID *Ballistic Material Choices Aramid PBO Ceramic Metal Polyethylen Hybrid Composite Other Rear Panel ARMOR CONSTRUCTION: Front Panel Front Closure (Y/N): N Ν Removable Carrier (Y/N): N Ν NA Number of Layers: 5 NA Description of Stitching: NONE Individual Layer Description: LAYER 1 AND 4, 1mm RIGID WOVEN FIBERGLASS. LAYER 2, NA 6mm CERAMIC: LAYER 3, 12mm RIGID POLYETHYLENE. LAYER 5, 5mm FOAM. REMARKS: [STRAPPING: 2 VERTICAL, 3 HORIZONTAL. LABEL TEST PASSED. EVIDENCE SHOWS M80 PROJECTILE IS INCAPABLE OF STRIKING TARGET ACCURATELY AT VELOCITIES ABOVE 3400fps. H.P WHITE WAS INSTRUCTED BY NLECTC TO FIRE ALL REQUIRED SHOTS TO COMPLETE V50 TEST.

#NAME?

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Page 1 of 1

For Test Laboratory Use

NATIONAL INSTITUTE OF JUSTICE COMPLIANCE TEST REPORT

For Test Laboratory Use

Sample Information and Description

Armore in "As-New" Condition

-	Man	Manufacturer: SAFARILAND, LLC.	AFARILAND), LLC.		Test ID: 5	Test ID: SAF09-000463	53	Armors Model De	Armors in "As-New" Condition at ID: SAF09-000463 Model Deisgnation: 2120-5	2120-5	uon		Am	Armor Style: PLATE	ATE	2	NIJ Type: 3 Spare Samples	tples	Γ
	Canal Canal	-	Cample 2	6 9	Samol	1	Sample 4	e 4	Sample 5	le 5	Sample	e 6	Sample 7	7	mple		Sample 9	6	Sample 10	10
	Sample	Back	Cront	Back	Front	Back	Front	Back	Front	Back	Front	Back	Front	Back	Front	lck	Front	Back	Front	Back
SAMPLE DESCRIPTION Size: Panel Serial Number: Plate Serial Number: Lot Number:	10 × 12 NA 18 18 10794		10 × 12 NA 17 10784		1		10 x 12 NA 15 10794 5 82													
TEST DESCRIPTION	0/.0		00.0		7010					10/01	,,	\\/iat	\//et	Wet	Wet	Wet				1
Test Condition: Threat Ammunition: Builet (grain/type):	Vvet 7.62mm 147/FMJ	c 7	Vvet 7.62mm 147/FMJ	Wet 7.62mm 147/FMJ	Wet 7.62mm 147/FMJ	Vet 7.62mm 147/FMJ	Vet 7.62mm 147/FMJ	7.62mm 147/FMJ	Iavv	Mer				102						
Test Velocity (ft/s): Angle at Location #4:	2/80	0,00	7/80	0 7,0U	0,7	0.0	0.7	2017	0	0	0	0	-	0	0	0				
THREAT DESCRIPTION Builet Manufacturer: Builet Lot/Product Number: Test Barrel Manufacturer: Test Barrel Lendth (in):	LAKE CITY WRA-67 HPWLI 29.0	LAKE CITY L WRA-67 HPWLI 29.0	LAKE CITY 1 WRA-67 HPWLI 29.0	LAKE CITY WRA-67 HPWLI 29.0	LAKE CITYI WRA-67 HPWLI 29.0	LAKE CITYL WRA-67 HPWLI 29.0	LAKE CITYL WRA-67 HPWLI 29.0	LAKE CITY WRA-67 HPWLJ 29.0	~ ~ ~ ~ ~	Not DefinedN Not DefinedN Not DefinedN Not DefinedN	lot DefinedN lot DefinedN lot DefinedN lot DefinedN	lot DefineoN lot DefineoN lot DefineoN	lot Defined lot Defined lot Defined lot Defined lot Defined	ot DefinedN ot DefinedN ot DefinedN ot DefinedN	Not DefinedNot Defined	t Defined t Defined t Defined t Defined				
		Manufacturer 0				Test ID: 5	Test ID: SAF09-000463	ន្ល	Model De	Model Deisgnation: 2120-5	120-5			An	Armor Style: 0			NU Type: 0		[
				Baseli	Baseline Ballistic	5								L I.	Baseline Ballistic Limit - Threat 2	imit - Threa	t 2 Campie 10	10	Samola 20	6
	Sample 11	le 11	Sample 12	le 12	E	0	Sample 14	e 14	Sampi	Sample 15	Sample 15	e 16	Sample 17	17 Dack	Sample Eront	Back	Sample Front	Back	Front	Back
SAMPLE DESCRIPTION		Back	Front	Back	Front	Back	Front	Back	Front	Back	Front	Back	HOTT	Dack	+	DACK	LIUII	Dach		
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TEST DESCRIPTION																	1.00	1015	VAVET 1	WET
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THREAT DESCRIPTION		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	- k						AKE CITVI	I AKE CITY		0	0	0	0	0	0	0	0	0
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			stration-Bac	Penetration-Backface Signature (P-BFS)	Nture (P-BFS	i) Test Samples		100	B Colomo	Ballistic Limit	s Limit Samrla 26	A 26	Samule	Spare Samples	mples Sample	28				
SAMPLE DESCRIPTION	Front B	le 21 Back	Front	Sample 22 nt Back	Front	Sample 23 ont Back	Front Ba	e 24 Back	Front	Back	Front	Back	Front		Front Back	Back	Front	Back	Front	Back
Size: Panel Serial Number: Plate Serial Number: Lot Number:										· · · ·										
Gross Weight (lb.): TEST DESCRIPTION																				TT
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20000 0008 20000 008 Dry 7.62mm 147/FMJ 2780 LAKE CITY WRA-67 HPWLI 27.0 Dry 7.62mm 147/FMJ 2780 AKE CITY WRA-67 HPWLI 27.0 20000 0008 20000 20000 20000 0008 Dry 7.62mm 147/FMJ 2780 LAKE CITYLAKE CITYLAKE CITY LAKE CITY WRA-67 WRA-67 WRA-67 WRA-67 HPWUI HPWUI HPWUI HPWUI 29.0 29.0 29.0 Dry 7.62mm 147/FMJ 2780 0 Dry 7.62mm 147/FMJ 2780 Dry 7.62mm 147/FMJ 2780 Threat Ammunition: Bullet (grain/type): Test Velocity (fts): Angle at Loc #4(Shuts on Panel: THREAT DESCRIPTION Bullet Manufacturer: L Bullet Lot/Product Number: Test Barrel Manufacturer: Test Barrel Length (in): Test Condition: 3

CTR Draft Revision 353

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HANDLOAD VERIFICATION WORKSHEET

This form is not required and may be substituted with appropriate internal laboratory documentation.

		New	Armor - Tes	t Round 1						rmor - Tes			
An	nmunition:	7.62mm	147/FMJ	Test Date:		-	An	nmunition:		_	Test Date:		
	Temp:		F	RH:		%		Temp:		F	RH:		%
hot	Charge	Time 1	Vel. 1	Time 2	Vel. 2	Vel. Avg.	Shot	Charge	Time 1	Vel. 1	Time 2	Vel. 2	Vel. Avg
No.	(grain)	(µs)	(ft/s)	(µs)	(ft/s)	(ft/s)	No.	(grain)	(µs)	(ft/s)	(µs)	(ft/s)	(ft/s)
1		1784	2803	1789	2795	2799	1	14 C.N.		0		0	
2		1786	2800	1793	2789	2794	2			0		0	
3		1796	2784	1798	2781	2782	3	Sec. 2018		0		0	
4			0	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	0		4			0	1	0	
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ean:					Mean	2792	Mean:					Mean	:
		New Ar	mor - Test	Round 1					New Ar	mor - Test	Round 2		
	NIJ Referer	ice Velocity:	2	780	ft/s			NIJ Refere	nce Velocity:			ft/s	
dload	(NIJ Referen	ce <u>+</u> 10 ft/s):	In	valid	ft/s	н	landload	(NIJ Referen	nce <u>+</u> 10 ft/s):	#V#	ALUE!	ft/s	
	(NIJ Referen		2750	2810	ft/s		Range	(NIJ Refere	nce <u>+</u> 30 ft/s):	#VALUE!	#VALUE!	ft/s	
			Min	Max						Min	Max	1	
	Volooit	y Summary:			ft/s			Veloc	ity Summary:	0	0	ft/s	
	VEIOCI	iy Summary.	2102	2100	[100			0.00]	
		Conditio											
				- Test Round	11						- Test Roun		
A	nmunition:		147/FMJ	Test Date:		- 0/	A	mmunition	: 0	0	Test Date:	-	- %
A	Temp:	7.62mm	147/FMJ F	Test Date: RH:	-	%	1	Temp	: 0	0 F	Test Date: RH:	-	%
Aı Shot	Temp: Charge		147/FMJ F Vel. 1	Test Date: RH: Time 2	Vel. 2	Vel. Avg.	Shot	Temp Charge	: 0 	0 F Vel. 1	Test Date: RH: Time 2	Vel. 2	Vel. Av
Shot No.	Temp:	7.62mm	147/FMJ F Vel. 1 (ft/s)	Test Date: RH:	Vel. 2 (ft/s)		Shot No.	Temp	: 0	0 F Vel. 1 (ft/s)	Test Date: RH:	Vel. 2 (ft/s)	
Shot	Temp: Charge	7.62mm Time 1	147/FMJ F Vel. 1 (ft/s) 0	Test Date: RH: Time 2	Vel. 2 (ft/s) 0	Vel. Avg.	Shot No.	Temp Charge	: 0 	0 F Vel. 1 (ft/s) 0	Test Date: RH: Time 2	Vel. 2 (ft/s) 0	Vel. Av
Shot No.	Temp: Charge	7.62mm Time 1	147/FMJ F Vel. 1 (ft/s) 0	Test Date: RH: Time 2	Vel. 2 (ft/s) 0	Vel. Avg.	Shot No. 1 2	Temp Charge	: 0 	0 F Vel. 1 (ft/s) 0	Test Date: RH: Time 2	Vel. 2 (ft/s) 0	Vel. Av
Shot No.	Temp: Charge	7.62mm Time 1	147/FMJ F Vel. 1 (ft/s) 0	Test Date: RH: Time 2	Vel. 2 (ft/s) 0 0	Vel. Avg.	Shot No. 1 2 3	Temp Charge	: 0 	0 F Vel. 1 (ft/s) 0 0	Test Date: RH: Time 2	Vel. 2 (ft/s) 0 0	Vel. Av
Shot No. 1 2	Temp: Charge	7.62mm Time 1	147/FMJ F Vel. 1 (ft/s) 0	Test Date: RH: Time 2	Vel. 2 (ft/s) 0 0 0	Vel. Avg.	Shot No. 1 2 3 4	Temp Charge	: 0 	0 F Vel. 1 (ft/s) 0 0 0	Test Date: RH: Time 2	Vel. 2 (ft/s) 0 0 0	Vel. Av
Shot No. 1 2 3	Temp: Charge	7.62mm Time 1	147/FMJ F Vel. 1 (ft/s) 0 0	Test Date: RH: Time 2 (μs)	Vel. 2 (ft/s) 0 0	Vel. Avg.	Shot No. 1 2 3	Temp Charge	: 0 	0 F Vel. 1 (ft/s) 0 0 0 0 0	Test Date: RH: Time 2	Vel. 2 (ft/s) 0 0 0 0 0	Vel. Av
Shot No. 1 2 3 4	Temp: Charge	7.62mm Time 1	147/FMJ F Vel. 1 (ft/s) 0 0 0	Test Date: RH: Time 2 (μs)	Vel. 2 (ft/s) 0 0 0	Vel. Avg.	Shot No. 1 2 3 4	Temp Charge	: 0 	0 F Vel. 1 (ft/s) 0 0 0 0 0 0 0	Test Date: RH: Time 2	Vel. 2 (ft/s) 0 0 0 0 0 0 0	Vel. Av
Shot No. 1 2 3 4 5	Temp: Charge	7.62mm Time 1	147/FMJ F Vel. 1 (ft/s) 0 0 0 0 0	Test Date: RH: Time 2 (μs)	Vel. 2 (ft/s) 0 0 0 0 0	Vel. Avg.	Shot No. 1 2 3 4 5	Temp Charge	: 0 	0 F Vel. 1 (ft/s) 0 0 0 0 0 0 0	Test Date: RH: Time 2	Vel. 2 (ft/s) 0 0 0 0 0 0 0	Vel. Av
Shot No. 1 2 3 4 5 6	Temp: Charge	7.62mm Time 1	147/FMJ F Vel. 1 (ft/s) 0 0 0 0 0 0 0 0	Test Date: RH: Time 2 (μs)	Vel. 2 (ft/s) 0 0 0 0 0 0 0	Vel. Avg.	Shot No. 1 2 3 4 5 6	Temp Charge	: 0 	0 F Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0	Test Date: RH: Time 2	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0	Vel. Av
Shot No. 1 2 3 4 5 6 7 8	Temp: Charge	7.62mm Time 1	147/FMJ F Vel. 1 (ft/s) 0 0 0 0 0 0 0 0	Test Date: RH: Time 2 (μs)	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0	Vel. Avg.	Shot No. 1 2 3 4 5 6 6 7	Temp Charge	: 0 	0 F Vel. 1 (ft/s) 0 0 0 0 0 0 0	Test Date: RH: Time 2	Vel. 2 (ft/s) 0 0 0 0 0 0 0	Vel. Av
Shot No. 1 2 3 4 5 6 7	Temp: Charge	7.62mm Time 1	147/FMJ F Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0	Test Date: RH: Time 2 (μs)	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0	Vel. Avg.	Shot No. 1 2 3 4 5 6 7 8	Temp Charge	: 0 ; (μs)	0 F Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0	Test Date: RH: Time 2 (μs)	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0	Vel. Av
Shot No. 1 2 3 4 5 6 7 8 9	Temp: Charge	7.62mm Time 1	147/FMJ F Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Test Date: RH: Time 2 (μs)	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0	Vel. Avg. (ft/s)	Shot No. 1 2 3 4 5 6 7 8 9	Temp Charge (grain)	: 0 ; (μs)	0 F Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0	Test Date: RH: Time 2 (μs)	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0	Vel. Av (ft/s)
Shot No. 1 2 3 4 5 6 7 8 9 10	Temp: Charge	7.62mm Time 1 (µs)	147/FMJ F Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Test Date: RH: Time 2 (μs) 	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Vel. Avg. (ft/s)	Shot No. 1 2 3 4 5 6 7 8 9 10	Temp Charge (grain)	: 0 Time 1 (μs) 	0 F Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Test Date: RH: Time 2 (μs)	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Vei. Av (ft/s)
Shot No. 1 2 3 4 5 6 7 8 9 10	Temp: Charge (grain)	7.62mm Time 1 (µs)	147/FMJ F Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0	Test Date: RH: Time 2 (µs)	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Vel. Avg. (ft/s)	Shot No. 1 2 3 4 5 6 7 8 9 10	Temp Charge (grain)	conditione	0 F Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Test Date: RH: Time 2 (μs)	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Vel. Av (ft/s)
Shot No. 1 2 3 4 5 6 7 8 9 10 10	Temp: Charge (grain)	7.62mm Time 1 (µs) Conditione	147/FMJ F Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0	Test Date: RH: Time 2 (μs) 	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Vel. Avg. (ft/s)	Shot No. 1 2 3 4 5 6 7 7 8 9 10 Mean:	Temp Charge (grain)	conditione	0 F Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Test Date: RH: Time 2 (µs)	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Vel. Av (ft/s)
Shot No. 1 2 3 4 5 5 6 7 7 8 9 9 10 10 <i>I</i> 10	Temp: Charge (grain)	7.62mm Time 1 (µs) Conditione nce Velocity nce ± 10 ft/s)	147/FMJ F Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0	Test Date: RH: Time 2 (µs)	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Vel. Avg. (ft/s)	Shot No. 1 2 3 4 5 6 7 8 9 9 10 Mean:	Temp Charge (grain)	conditione	0 F Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Test Date: RH: Time 2 (µs)	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Vel. Av (ft/s)
Shot No. 1 2 3 4 5 5 6 7 7 8 9 9 10 10 <i>I</i> 10	Temp: Charge (grain)	7.62mm Time 1 (µs) Conditione nce Velocity nce ± 10 ft/s)	147/FMJ F Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0	Test Date: RH: Time 2 (μs) 	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Vel. Avg. (ft/s)	Shot No. 1 2 3 4 5 6 7 8 9 9 10 Mean:	Temp Charge (grain)	Conditione Conditione ence Velocity: mce ± 10 ft/s):	0 F Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0	Test Date: RH: Time 2 (μs) Control (μs) Control (μs)	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Vel. Av (ft/s)
Shot No. 1 2 3 4 5 5 6 7 7 8 9 9 10 10 <i>I</i> 10	Temp: Charge (grain)	7.62mm Time 1 (µs) Conditione nce Velocity nce ± 10 ft/s)	147/FMJ F Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0	Test Date: RH: Time 2 (μs) 	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Vel. Avg. (ft/s)	Shot No. 1 2 3 4 5 6 7 8 9 9 10 Mean:	Temp Charge (grain)	Conditione Conditione ence Velocity: mce ± 10 ft/s):	0 F Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0	Test Date: RH: (µs)	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Vel. Av. (ft/s)
Shot No. 1 2 3 4 5 5 6 7 7 8 9 9 10 // 10	Temp: Charge (grain)	7.62mm Time 1 (µs) Conditione nce Velocity nce ± 10 ft/s)	147/FMJ F Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0	Test Date: RH: Time 2 (μs) 	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Vel. Avg. (ft/s)	Shot No. 1 2 3 4 5 6 7 8 9 9 10 Mean:	Temp Charge (grain)	Conditione Conditione ence Velocity: mce ± 10 ft/s):	0 F Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0	Test Date: RH: Time 2 (μs) Control (μs) Control (μs)	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Vel. Av (ft/s)
Shot No. 1 2 3 4 5 6 7 8 9 10 10 lean:	Temp: Charge (grain)	7.62mm Time 1 (µs) Conditione nce Velocity nce ± 10 ft/s)	147/FMJ F Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0	Test Date: RH: Time 2 (μs) 	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Vel. Avg. (ft/s)	Shot No. 1 2 3 4 5 6 7 8 9 9 10 Mean:	Temp Charge (grain)	Conditione Conditione ence Velocity: mce ± 10 ft/s):	0 F Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0	Test Date: RH: (µs)	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Vel. Av (ft/s)
hot lo. 1 2 3 4 5 5 6 6 7 8 9 10 0 ean:	Temp: Charge (grain)	7.62mm Time 1 (µs) Conditione nce Velocity nce ± 10 ft/s)	147/FMJ F Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0	Test Date: RH: Time 2 (μs) 	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Vel. Avg. (ft/s)	Shot No. 1 2 3 4 5 6 7 8 9 9 10 Mean:	Temp Charge (grain)	Conditione Conditione ence Velocity: mce ± 10 ft/s):	0 F Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0	Test Date: RH: (µs)	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Vel. A (ft/s

CTR Draft Revision 353

EXPORT CONTROLLED DATA.

Penetration and BFS Firing Data - New Armor - Threat 1

F	Report N	umber:	1113	7-06A		Report	Date:	05/15/	09		Test Date:	05/14/09
	Manufa	acturer:	SAFARI	I AND. L	LC.				Ammur	nition:	7.62mm	147/FMJ
			SAF09-0							ocity:	2780	± 30 ft/s
			0/11/05/							oning:		
r	uj Anno	л туре.						Ŭ	onunu	/imig	Wet	-
	TEST DIMI	ENSIONS:	Ran	ge Length:	50.30	ft.		Velocity 1: Velocity 2:				
							Samp	le 1				
							Front F					
Pane	l Serial I	No:		NA				Serial No:			18	_
PRE-T	EST CLAY							rop Numb				
			R1B1		Depth of		2		4	5	Avg.	-
	Time	of Day:	9:50	HH:mm	Indent:	19	19			19	19.2	
Cla	ay Temp	erature:	99.3	F		Require	ments:	All drops:	19 ± 3		/erage: 19 ± 2 mm	3
										Pass:	Yes	
TEST	CONDITIO				4	rmor Su	hmersio	n			Firing Sequenc	e
1231	CONDITIO	Start	End			9:		HH:mm		Start:		
Amhi	ent Temp:			F		9:4				End:	9:57 10:05	HH:mm
Rel.	Humidity:	52	69		Duration:	3	0	min	D	uration:	8	min
							•			-		_
							FRONT	PANEL				
Shot	Time 1	Vel. 1	Time 2	Vel. 2	Vel. Avg.		Fair	Perforate		BFS	_	
No.	(µs)	(ft/s)	(µs)	(ft/s)	(ft/s)	Angle		(Y=1/N=0)	Note	(mm)	Con	iments
1	1817	2752	1820	2747	2750	0°	Y	0		35	<u> Shi ka Shi ka Shi ka</u>	
2	1803	2773	1807	2767	2770	0°	Y	0		32		<u> Maria Mangkanana</u>
3	1788	2796	1791	2792	2794	0°	Y	0			<u>NATA BANA AN BAR</u>	
4	1782	2806	1785	2801	2803	0°	Y	0				
5	1797	2782	1800	2778		ot Define		0				
6	1800	2778	1806	2769	2773	0°	Y.,	0	<u></u>			
7		0		0			1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -		<u>y es 194</u>			
8		0	March A.	0					i ta di na			
						1		ron Numb	0.F			٦
POST	-TEST CLA				Depth of	1	2	rop Numb 3	er 4	5	Avg.	-1
			• <u>8.000 (0.000)</u>		Indent:		4					-
~	i ime	oratura		remanni Te			mente	· All drone:	19 + 3		verage: 19 ± 2 mn	
	ay remp	erature	•	-'		require	monto		,0±0	Pass:	-	Ĩ.
					L							

NOTES:

a - Excessive velocity

b - Insufficient velocity

c - Too close to edge

d - Too close to prior impact

e - Excessive total impacts (test terminated)

f - Excessive area impacts (test terminated)

g - Impact on seam

Penetration and BFS Firing Data - New Armor - Threat 1

R	eport N	umber:	11137	7-06A		Report	Date:	05/15/	09		Test Date:	05/14/09
			SAFARI		LC.				Ammur	nition:	7.62mm	
	٦	fest ID:	SAF09-0	00463				Т	est Ve	locity: _		± 30 ft/s
N	IJ Armo	r Type:		3				С	onditio	oning:	Wet	
	EST DIME	NSIONS:	Ran	ge Length:	50.30	ft.		Velocity 1: Velocity 2:				
							Samp	le 1				
							Back F	Panel				
Panel	Serial N	lo:	No	t Yet De	fined		Plate S	Serial No:		No	ot Yet Defined	
PRF-TF	ST CLAY		ON:				D	rop Numb	er	·····		l
					Depth of	1	2		4	5	Avg.	
	Time	of Dav:		HH:mm	Indent:				9.1 Y L	a terior		
Cla	y Tempo	erature:		F		Require	ements:	All drops:	19 ± 3		verage: 19 ± 2 mm -	
TEST	ONDITIO	NS:			A	rmor Su	ibmersio	n			Firing Sequence	
1201 0			End							Start:		HH:mm
Ambie	ent Temp:	-		F	End:			HH:mm				HH:mm
Rel.	Humidity:			%	Duration:				D	uration:		min
							BACK F	PANEL				
Shot	Time 1	Vel. 1	Time 2	Vel. 2	Vel. Avg.		Fair	Perforate		BFS	i i i i i i i i i i i i i i i i i i i	
No.	(µs)	(ft/s)	(µs)	(ft/s)	(ft/s)	Angle	(Y/N)	(Y=1/N=0)	Note	(mm)	Com	ments
1	<u> </u>	0		0	<u> </u>	0°					New York	Maria da seria da seria.
2		0		0		0°			1.1.1.1			
3	1	0		0		0°						
4		0		0		0°			1. 11			
5	1.1	0		0		ot Define	ed	and a strength	1		and the second	
6		0		0		0°			1.1		an an tha that the	
7		0	14 - 15 -	0				and the second s				
8		0	Sec. 1	0								
												1
POST-	TEST CLA							rop Numb			Auto	-
	B	lock ID:	<u>(</u>		Depth of		2	3	4	5	Avg.	·
Cla	Time ay Temp	of Day: erature:		HH:mm F	Indent:	Require	ements	: All drops:	19 ± 3	<i>mm</i> , A Pass:	verage: 19 ± 2 mm -	
NOTES	S: Excessive	velocity		d	- Too close to	prior imp	act			g -	Impact on seam	

b - Insufficient velocity

c - Too close to edge

e - Excessive total impacts (test terminated)

f - Excessive area impacts (test terminated)

Penetration and BFS Firing Data - New Armor - Threat 1

F	Report N	lumber:	1113	7-06A		Report	Date:	05/15/	09		Test Date	e: 05/14/09
	Monuf	a of uror:	SAFARI		10				Ammur	nition.	7.62mm	147/FMJ
			SAF09-0		LU.	-				ocity:		± 30 ft/s
											Wet	1.00103
n	iij Armo	or type:		5				C C	onulu	ning		
٦	TEST DIMI	ENSIONS:	Ran	ge Length:	50.30	ft.		Velocity 1: Velocity 2:				
							Samp	le 2				
							Front F					
Panel	I Serial I	No:		NA			Plate S	Serial No:			17	
							D	rop Numb	ar			7
PRE-II		VALIDAT			Depth of	1	2	3	4	5	Avg.	
			10:11	HHimm	Indent:			18			18.6	
Cla			98.7								erage: 19 ± 2 m	m
018	iy remp	crature.	00.7		1	loquilo	inonito.	/ al alopo.	/0 0	Pass:	Yes	
TEST (CONDITIO	NS:			A	rmor Su	bmersio	n			Firing Sequer	
		Start				9:		HH:mm		Start:	10:21	HH:mm
Ambie	ent Temp:	69	70	F		10:		HH:mm		End:	10:30	HH:mm
Rel.	Humidity:	69	63	%	Duration:	3	0	min	D	uration:	9	min
							FRONT I	PANEL				
Shot	Time 1	Vel. 1	Time 2	Vel. 2	Vel. Avg.		Fair	Perforate		BFS		
No.	(µs)	(ft/s)	(µs)	(ft/s)	(ft/s)	Angle	(Y/N)	(Y=1/N=0)	Note	(mm)	Co	mments
1	1809	2764	1808	2765	2765	0°	Y	0		38	ala sanàira	Aldes and a setting
2	1798	2781	1800	2778	2779	0º	Y	0	10000	32		
3	1812	2759	1816	2753	2756	0°	Y	0				
4	1801	2776	1802	2775	2775	0º	Υ	0				
5	1803	2773	1807	2767	2770	ot Define	$\{ \boldsymbol{y}_{i}, \boldsymbol{Y}_{i} \}$	0				
6	1789	2795	1792	2790	2793	0°	Y	0				
7		0		0		and the second	the each	And Anna A		Real Pro-	un de Namera	<u>. A film an a film an </u>
8		0		0			A.See	aan dhaa				aside <u>ses situ</u> t
0007	TEOT OF	V VAL 15 4	TION					rop Numb	or	ľ		
POST-		AY VALIDA Block ID:			Depth of	1	2		4	5	Avg.	
			10:33	1111.mm	Indent:		18	18	20	18	18.8	
014			97.5								verage: 19 ± 2 m	m
	ay remp	sciatui6.	01.0	•		oquit		. / 010po.			Yes	

NOTES:

a - Excessive velocity

b - Insufficient velocity

c - Too close to edge

d - Too close to prior impact

ntor impact

g - Impact on seam

e - Excessive total impacts (test terminated)

f - Excessive area impacts (test terminated)

Penetration and BFS Firing Data - New Armor - Threat 1

F	Report N	umber:	11137	7-06A	. I	Report	Date:	05/15/0	09		Test Date:	05/14/09
N		Test ID:	SAFARII SAF09-0	00463	······		<u></u>	Т	est Ve	locity:	7.62mm 2780 Wet	147/FMJ ± 30 ft/s
1	IEST DIMI	ENSIONS:	Ranç	ge Length:	50.30	ft.		Velocity 1: Velocity 2:				
							Samp	ole 2				
							Back F	Panel				
Pane	Serial I	No:	No	t Yet De	fined		Plate S	Serial No:		No	ot Yet Defined	-
PRE-TI	EST CLAY	VALIDAT	ION:		[rop Numbe	er]
	В	lock ID:	in the second		Depth of	1	2	3	4	5	Avg.	
	Time	of Day:		HH:mm	Indent:							
Cla	iy Temp	erature:		F		Require	ements:	All drops:	19 ± 3		/erage: 19 ± 2 mm -	
TEST (CONDITIO	NS:			A	rmor Su	Ibmersio	n			Firing Sequence	9
			End		Start:			HH:mm		Start:	and the second second	_HH:mm
Ambie	ent Temp:			F	End:			HH:mm				HH:mm
Rel.	Humidity:			%	Duration:				D	uration:		_min
							BACK F	PANEL				
Shot No.	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Com	ments
1		0		0		0°				land the		New Jacobson
2	and the second	0	B. S. S.	0		0°				$\{ i_{n_1}, \ldots, i_{n_k} \}$		
3	1	0		0		0°			Sec. 1			<u> Barang /u>
4		0		0		0°			and Alex			
5		0		0		ot Define	d				and Mary and State	
6		0		0		0º					<u>a an /u>	<u> Maria na papara </u>
7		0	Sand and	0					· · · · · ·	1		<u> Biya san tibuaa</u>
8		0		0					de la terre			
								-				-
POST	TEST CLA							rop Numb				
	E	Block ID:	<u> 2000</u>		Depth of		2	3	4	5	Avg.	4
					Indent:							4
Cla	ay Temp	erature	<u> (a. a. a. a.</u>	F		Requir	ements	: All drops:	19±3	mm,A Pass:	verage: 19 ± 2 mm	
NOTE	S:											
а-	Excessive	e velocity		d	 Too close to 	prior imp	oact			g -	Impact on seam	

b - Insufficient velocity

c - Too close to edge

e - Excessive total impacts (test terminated)

f - Excessive area impacts (test terminated)

Penetration and BFS Firing Data - New Armor - Threat 1

F	Report N	umber:	11137	7-06A	. 1	Report	Date:	05/15/)9		Test Date:	05/14/09
			SAFARI SAF09-0		LC.					nition: _ ocity: _	7.62mm 2780	147/FMJ ± 30 ft/s
N			<u>071 00-0</u>							oning:		
L		i i jper	`					-				•
	TEST DIME	ENSIONS:	Ran	ge Length:	50.30	ft.		Velocity 1: Velocity 2:				
							Samp	le 3				
							Front F					
Pane	Serial I	No:		NA			Plate S	Serial No:			16	_
												-
PRE-T		VALIDATI						rop Numbe				
		lock ID:			Depth of		2		4	5	Avg.	
	Time	of Day:	10:43	HH:mm	Indent:			18	19	18	18.8	
Cla	iy Temp	erature:	100.1	F		Require	ments:	All drops:	19±3	mm , Av Pass:	rerage: <i>19 ± 2 mm</i> Yes	
TEOT		NC.			,	Armor Su	hmoreio	n			Firing Sequence	2
TEST	CONDITIO	Start	End			10:		HH:mm		Start	10:50	
Ambi	ent Temp:		69	F		10:		HH:mm			10:57	- HH:mm
		60			Duration:			min	D		7	-
										-		
							FRONT	PANEL				
Shot	Time 1	Vel. 1	Time 2	Vel. 2	Vel. Avg.		Fair	Perforate		BFS	-	
No.	(µs)	(ft/s)	(µs)	(ft/s)	(ft/s)	Angle		(Y=1/N=0)	Note	(mm)	Com	ments
1	1798	2781	1804	2772	2776	0°	Y	0	A CARLE	37		
2	1800	2778	1803	2773	2775	0°	Y	0	etse M	35		la esta e Articia esta da la
3	1803	2773	1808	2765	2769	0°	Y	0				
4	1805	2770	1811	2761	2765	0°	• Y	0	5 5 5 ⁵			
5	1791	2792	1789	2795		ot Define		0				
6	1785	2801	1790	2793	2797	0°	Y	0	<u></u>		er 1917en geskalde en eren. De se	
7	an a	0		0					Charles en la caractería. A ch			
8		0	and the second					aan badd Nd		STAAS.		en en destructures de la serie de la s
DOGT	TFOTOL		TION			r		rop Numb	er			1
POST		Y VALIDA			Depth of	1	2		4	5	Avg.	
					Indent:							1
CI	ay Temp	erature:		F			ements	: All drops:	19 ± 3	mm, Av Pass:	verage: 19 ± 2 mm	
NOTE	S:				J						<u></u>	-
a-	Excessive	e velocity		d	 Too close to 	prior imp	act			g -	Impact on seam	

a - Excessive velocity

b - Insufficient velocity

c - Too close to edge

d - Too close to prior impact

e - Excessive total impacts (test terminated)

f - Excessive area impacts (test terminated)

Penetration and BFS Firing Data - New Armor - Threat 1

F	Report N	lumber:	11137	7-06A	. 1	Report	Date:	05/15/	09		Test Date:	05/14/09
N	-	Test ID:	SAFARI SAF09-0	00463	LC.			Т	est Vel	ocity:	7.62mm 2780 Wet	147/FMJ ± 30 ft/s
-	TEST DIME	ENSIONS:	Ran	ge Length:	50.30	ft.		Velocity 1: Velocity 2:				
							Samp	ole 3				
							Back F					
Pane	I Serial I	No:	No	t Yet De	fined			Serial No:		No	t Yet Defined	-
PRE-T	EST CLAY		ION:				D	rop Numb	er]
		lock ID:			Depth of	1	2		4	5	Avg.]
	Time	of Day:		HH:mm	Indent:					1.1.457		
Cla	ay Temp	erature:		F		Require	ements:	All drops:	19±3	mm , Av Pass:	rerage: 19 ± 2 mm -	
TFOT		NO.				rmor Su	bmersio	n			Firing Sequence	a
15910	CONDITIO	Start	End				DITICIOIO			Start:	• •••• • ••••••••••••••••••••••••••••••	
Ambi	ont Tomn	Otart		F								
Ral	Humidity		<i>i.</i>	· %	Duration:			min	D			- min
T(OI)	Trannany.											-
							BACK F	PANEL				
Shot	Time 1	Vel. 1	Time 2	Vel. 2	Vel. Avg.		Fair	Perforate		BFS		
No.	(µs)	(ft/s)	(µs)	(ft/s)	(ft/s)	Angle	(Y/N)	(Y=1/N=0)	Note	(mm)	Com	ments
1	A. 1944	0		0		00			e la construcción de la construc	14 A		
2		0		0		0°						
3		0		0		0°		Sec. Sec. 2.				
4		0		0		0°						<u></u>
5		0	and the	0		ot Define	ed					<u>estables estables</u>
6	a sa	0	era da sa	0		0°	ي و المحمد ال					
7		0	Sec. Sec.	0			Sec. Add.		1.11	an Nac		
8		0		0					15. A.			
-												-
POST		AY VALIDA						rop Numb				-
			<u>1999 - 1999</u>		Depth of		2	3	4	5	Avg.	4
Cl	Time ay Temp	e of Day: perature:		HH:mm F	Indent:	Require	l ements	I : All drops:	19 ± 3	mm, Av Pass:	verage: 19 ± 2 mm	-
NOTE	S:				L							
а-	Excessive	e velocity		d -	 Too close to 	prior imp	act			g -	Impact on seam	

b - Insufficient velocity

c - Too close to edge

d - 1 oo close to prior impa

e - Excessive total impacts (test terminated)

f - Excessive area impacts (test terminated)

Penetration and BFS Firing Data - New Armor - Threat 1

R	leport N	umber:	11137	7-06A		Report	Date:	05/15/0	09		Test Date	: <u>Angle A</u> 05/14/09
			SAFARI		LC.					nition: _	7.62mm	147/FMJ
	٦	Fest ID:	SAF09-0	000463				т	est Vel	locity: _	2780	± 30 ft/s
N	lIJ Armo	r Type:	3	3				С	onditio	oning: _	Wet	_
T	EST DIME	NSIONS:	Ran	ge Length:	50.30	ft.		Velocity 1:				
							Samp	ole 4				
							Front I	Panel				
Panel	Serial N	lo:		NA			Plate S	Serial No:			15	_
PRF-TF	EST CLAY		ION:				D	rop Numbe	er			
		lock ID:			Depth of	1	2	3	4	5	Avg.	
			11:02	HH:mm	Indent:	22	22	18	17	17	19.2	
Cla			99.3			Require	ments:	All drops:	19 ± 3	mm,Av Pass:	erage: 19 ± 2 mn Yes	n
Ambie	CONDITIO ent Temp: Humidity:	Start 69	End 69 65		A Start: End: Duration:	10:	27 57	n HH:mm HH:mm min	D	End:	Firing Sequen 11:08 11:17 9	HH:mm
							FRONT	PANEL				
Shot	Time 1	Vel. 1	Time 2	Vel. 2	Vel. Avg.		Fair	Perforate		BFS		
No.	(µs)	(ft/s)	(µs)	(ft/s)	(ft/s)	Angle	(Y/N)	(Y=1/N=0)	Note	(mm)	Cor	nments
1	1798	2781	1805	2770	2775	0°	Y	0		37	anan senati Na	ghean Ann Anns
2	1775	2817	1778	2812	2815	0°	Y	0, 4, 44		36		i a senti de ancar
3	1789	2795	1795	2786	2790	0°	Y	0				
4	1787	2798	1794	2787	2793	0°	Υ	0				
5	1802	2775	1806	2769	2772	ot Define	Y	0	1 ¹⁹		a and shirt and shirt	
6	1808	2765	1815	2755	2760	0°	Y	0	S. C. S.		<u>a esta de la composición de</u>	
7	la san	0		0			a stre Na		1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	1999 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 19		
8		0		0			No. 199					
POST-	TEST CLA		TION:				D	rop Numb	er			7
		lock ID:			Depth of	1	2	3	4	5	Avg.	
			11:20	HH:mm	Indent:		18	17	17	18	18.0	
Cla			97.3			Require				mm , Av	/erage: 19 ± 2 m/	n
					1					Pass:	Yes	

NOTES:

a - Excessive velocity

b - Insufficient velocity

c - Too close to edge

d	~	Too	close	to	prior	impact	t
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e - Excessive total impacts (test terminated)

f - Excessive area impacts (test terminated)

g - Impact on seam

Penetration and BFS Firing Data - New Armor - Threat 1

. 1	Report N	umber:	1113	7-06A		Report	Date:	05/15/	09		Test Date:	05/14/09
			SAFARI		LC.						7.62mm	147/FMJ
	•	Test ID:	SAF09-0	000463						locity:		± 30 ft/s
1	NJ Armo	or Type:	3	3				C	onditio	oning:	Wet	-
	TEST DIMI	ENSIONS:	Ran	ge Length:	50.30	ft.		Velocity 1: Velocity 2:				
							Samp					
							Back I					
Pane	Serial I	No:	No	ot Yet De	fined		Plate S	Serial No:		N	ot Yet Defined	-
PRE-T	EST CLAY	VALIDAT	ION:				D	rop Numb	er		· · · · · · · · · · · ·]
	В	lock ID:	- 		Depth of	1	2	3	4	5	Avg.	
	Time	of Day:		HH:mm	Indent:					New Sec.		1
Cla	ay Temp	erature:		F		Require	ements	All drops:	19 ± 3		verage: 19 ± 2 mm	
										Pass:	-	_
Ambi	CONDITIO	Start	- -	F %	Start:			HH:mm HH:mm	D	End:	Firing Sequenc	_HH:mm _HH:mm
							BACK I	PANEL				
Shot	Time 1	Vel. 1	Time 2	Vel. 2	Vel. Avg.		Fair	Perforate		BFS		
No.	(μs)	(ft/s)	(µs)	(ft/s)	(ft/s)	Angle	(Y/N)	(Y=1/N=0)	Note	(mm)	Com	ments
1	4.411	0		0		0°						
2	Sec.	0		0		0°	14.1.1.			<u></u>		
3		0		0		0°	<u> 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977</u>			<u> </u>		
4	$e_{i} \in [1, \infty_{i}]$	0	<u>1998</u>	0		0°		an an tha				
5		0		0	ļ	ot Define	ed	<u></u>				
6	1. 19 March 19	0		0		0°		ette serve	1999 - C			14. · · · · · · · · · · · · · · · · · · ·
7	1.1.1.1.1.1.1.	0	14. A. S.	0		a tradi		a Daga interanti N		1.12.2.1		<u>a de la constante de la constan</u> Constante de la constante de la c
8		0		0				Stern Street		iga sasa		
											T	7
POST	-TEST CLA					<u> </u>		rop Numb			•	4
		lock ID:	<u></u>	-	Depth of			3	4	5	Avg.	-
	Time	of Day:		HH:mm	Indent:				1		10 1 0	
CI	ay Temp	erature		F		Requir	ements	: All drops:	79±3	mm, A Pass:	verage: 19 ± 2 mm -	
NOTE	S:											-
	Excessive	velocity		d	- Too close to	prior imr	act			g -	Impact on seam	
	Insufficien				- Excessive to	•		erminated)		2	÷	
-		4			Evenesive e		•	,				

c - Too close to edge

f - Excessive area impacts (test terminated)

Penetration and BFS Firing Data - New Armor - Threat 2

I	Report N	umber:	11137	7-06A		Report	Date:	05/15/	09		Test Date:	es a Constituine
ı	-	Test ID:	SAFARI SAF09-0	000463	LĊ.			т		locity:	Wet	± 30 ft/s
	TEST DIMI				50.30	ft.		Velocity 1: Velocity 2:	5.00	ft.		
							Samp	le 5				
							Front F					
Pane	I Serial I	No:	No	ot Yet De	fined			Serial No:		No	ot Yet Defined	
PRF-T	EST CLAY		ION:				D	rop Numb	er			
			hili an		Depth of	1	2		4	5	Avg.	
	Time	of Day:		HH:mm	Indent:							
Cla	ay Temp	erature:		F		Require	ements:	All drops:	19 ± 3	mm , Av Pass:	verage: 19 ± 2 mm -	
тсет	CONDITIO					rmor Su	bmersio	n			Firing Sequence	
1691	CONDITIO		End		-					Start:	a tea treataite	
∆mhi	ent Temp:			F		<u></u>		HH:mm				
Rel	Humidity:	······			Duration:		<u>``</u>		D	uration:		min
							FRONT					
Shot	Time 1	Vel. 1	Time 2	Vel. 2	Vel. Avg.			Perforate		BFS		
No.	(µs)	(ft/s)	(µs)	(ft/s)	(ft/s)	Angle		(Y=1/N=0)	Note	(mm)	Com	ments
1	(μ.)	0	<u> </u>	0	, <u></u>	0°					William States	
2		0		0		0°	Sec.	visas suud				
3		0		0		0°			1. A. A. A.			
4		0		0		0°						
5		0		0		ot Define	ed	a dag Anang tang tang tang tang	5.5.1 E			
6	a su su su su	0		0		0°			$= \sum_{i=1}^{n} (X_i - X_i)$			
7		0		0		2. NG 1				1.5.5		
8		0		0		1111111	Sec. A.A.		a tang tang			
	31.6											-
POST	TEST CLA	Y VALIDA	TION:				D	rop Numb	er			
	B	lock ID:	<u>yana a</u>	_	Depth of		2	3	4	5	Avg.	
			line en l		Indent:		a tradition	e e ratifica e		1.2.5.5		
CI	ay Temp	erature:		F		Require	ements	: All drops:	19 ± 3		verage: 19 ± 2 mm	
										Pass:	-	J
NOTE	S:											
	Excessive	volocity		d.	 Too close to 	prior imp	act			0 -	Impact on seam	

b - Insufficient velocity

c - Too close to edge

e - Excessive total impacts (test terminated)

f - Excessive area impacts (test terminated)

Penetration and BFS Firing Data - New Armor - Threat 2

F	Report N	umber:	1113	7-06A		Report	Date:	05/15/	09		Test Date: <u>Residence Materials</u>
			SAFARI		LC.		,		Ammu		
			SAF09-0				<u>_</u>			locity:	
Ν	NJ Armo	r Type:		3				C	onditio	oning: _	Wet
	TEST DIME	ENSIONS:	Ran	ge Length:	50.30	ft.		Velocity 1: Velocity 2:			
							Samp				
							Back F				
Pane	I Serial N	No:	No	ot Yet De	fined		Plate S	Serial No:		No	ot Yet Defined
PRE-T	EST CLAY							rop Numb	er		
	B	lock ID:	ing and a second se Second second		Depth of		2	3	4	5	Avg.
	Time	of Day:		HH:mm	Indent:				March 199		
Cla	ay Tempo	erature:	<u>1 </u>	F		Require	ements:	All drops:	19 ± 3	mm, Av Pass:	verage: 19 ± 2 mm
Ambi	CONDITION ent Temp: _ Humidity: _	Start	End	F %	Start:	<u></u>		HH:mm HH:mm mìn	D	End:	Firing Sequence HH:mm HH:mm hH:mm hH:mm
							BACK				· · · · · · · · · · · · · · · · · · ·
Shot	Time 1	Vel. 1	Time 2	Vel. 2	Vel. Avg.	A		Perforate (Y=1/N=0)	N-4-	BFS (mm)	
No.	(µs)	(ft/s)					(Y/N)				Commonto
1			(µs)	(ft/s)	(ft/s)				Note		Comments
		0	(µs)	0	(105)	0°		(1-1/1-0)	Note		Comments
2		0		0		0°			Note		Comments
2 3		0 0 0		0 0 0	(105)	0° 0°					Comments
2 3 4		0 0 0 0		0 0 0 0		0° 0° 0°					
2 3 4 5		0 0 0 0 0		0 0 0 0 0		0° 0° 0° 0° ot Define					Comments
2 3 4 5 6		0 0 0 0 0 0 0		0 0 0 0 0 0		0° 0° 0° ot Define					
2 3 4 5 6 7		0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0		0° 0° 0° 0° ot Define					
2 3 4 5 6		0 0 0 0 0 0 0		0 0 0 0 0 0		0° 0° 0° ot Define					
2 3 4 5 6 7 8		0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0	(105)	0° 0° 0° ot Define	ed				
2 3 4 5 6 7 8	-TEST CLA	0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0		0° 0° 0° 0° 0° 0° 0°	d	rop Numb			
2 3 4 5 6 7 8	-test cla	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0	Depth of	0° 0° 0° 0° 0° 0° 0°	D 2	rop Numb 3	er 4	5	
2 3 4 5 6 7 8 POST	-test cla	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0	Depth of Indent:	0° 0° 0° 0° 0° 0° 0°	d D 2	rop Numb	er 4	5 	
2 3 4 5 6 7 8 POST-	-TEST CLA B Time ay Temp	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0	Depth of Indent:	0° 0° 0° 0° 0° 0° 0°	d D 2	rop Numb	er 4	5 <i>mm</i> , A	Avg.
2 3 4 5 6 7 8 POST Cla	-TEST CLA B Time ay Temp	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Depth of Indent:	0° 0° 0° 0° 0° 0° 0° 1 Require	D 2 ements	rop Numb	er 4	5 mm, A Pass:	Avg.

c - Too close to edge

f - Excessive area impacts (test terminated)

Penetration and BFS Firing Data - New Armor - Threat 2

F	Report N	umber:	1113	7-06A	. 1	Report	Date:	05/15/	09		Test Date:	
N		Test ID:	SAFARI SAF09-(000463				Т			± Wet	30 ft/s
٦	IEST DIME	ENSIONS:	Ran	ge Length:	50.30	ft.		Velocity 1: Velocity 2:				
							Samp Front F					
Panel	Serial N	No:	No	ot Yet De	fined			erial No:		N	ot Yet Defined	
PRE-T	EST CLAY							rop Numb	er			
	B	lock ID:	i Anarai Anaraith		Depth of		2	3	4	5	Avg.	
	_Time	of Day:	<u>(Parent A</u>	HH:mm	Indent:				10 1 0	A. 199 A. 199		
Cla	y Tempe	erature:		F		Require	ements:	All arops:	79±3	Pass:	verage: 19 ± 2 mm -	
Ambie	CONDITION ent Temp: Humidity:	Start		F %	Start:		bmersio	HH:mm	۵	End:	Firing Sequence	
								- A N 1071				
							FRONT	PANEL				
Shot	Time 1	Vel. 1	Time 2	Vel. 2	Vel. Avg.		Fair	Perforate		BFS	_	
Shot No.	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	(ft/s)	Vel. Avg. (ft/s)	Angle	Fair		Note	BFS (mm)	Comm	and the second
No. 1		(ft/s) 0		(ft/s) 0	-	Angle 0º	Fair	Perforate	Note	(mm)		
No. 1 2	(µs)	(ft/s) 0 0	(µs)	(ft/s) 0 0	-	Angle 0°	Fair	Perforate	Note			
No. 1 2 3	(µs)	(ft/s) 0 0 0	(µs)	(ft/s) 0 0 0	-	Angle 0° 0°	Fair	Perforate	Note	(mm)		
No. 1 2 3 4	(µs)	(ft/s) 0 0 0 0	(µs)	(ft/s) 0 0 0	-	Angle 0° 0° 0°	Fair (Y/N)	Perforate	Note	(mm)		
No. 1 2 3 4 5	(µs)	(ft/s) 0 0 0 0 0	(µs)	(ft/s) 0 0 0 0	-	Angle 0° 0° 0° 0° ot Define	Fair (Y/N)	Perforate	Note	(mm)		
No. 1 2 3 4 5 6	(µs)	(ft/s) 0 0 0 0 0 0 0	(µs)	(ft/s) 0 0 0 0 0 0	-	Angle 0° 0° 0°	Fair (Y/N)	Perforate	Note	(mm)		
No. 1 2 3 4 5	(µs)	(ft/s) 0 0 0 0 0	(µs)	(ft/s) 0 0 0 0	-	Angle 0° 0° 0° 0° ot Define	Fair (Y/N)	Perforate	Note	(mm)		
No. 1 2 3 4 5 6 7	(µs)	(ft/s) 0 0 0 0 0 0 0 0	(µs)	(ft/s) 0 0 0 0 0 0 0	-	Angle 0° 0° 0° 0° ot Define	Fair (Y/N)	Perforate (Y=1/N=0)		(mm)		
No. 1 2 3 4 5 6 7 8	(µs)	(ft/s) 0 0 0 0 0 0 0 0 0 0 0		(ft/s) 0 0 0 0 0 0 0	(ft/s)	Angle 0° 0° 0° 0° ot Define 0°	Fair (Y/N)	Perforate (Y=1/N=0)	er			
No. 1 2 3 4 5 6 7 8	(μs)	(ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		(ft/s) 0 0 0 0 0 0 0	(ft/s)	Angle 0° 0° 0° 0° 0° 0°	Fair (Y/N)	Perforate (Y=1/N=0)	er	(mm)		
No. 1 2 3 4 5 6 7 8 POST-	(μs)	(ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(µs)	(ft/s) 0 0 0 0 0 0 0 0 0		Angle 0° 0° 0° 0° 0° 0° 0°	Fair (Y/N) ed D 2	Perforate (Y=1/N=0) rop Numb 3	er 4	(mm) (mm) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max) (max	Avg. verage: 19 ± 2 mm	
No. 1 2 3 4 5 6 7 8 POST-	(µs) TEST CLA B Time ay Temp	(ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(µs)	(ft/s) 0 0 0 0 0 0 0 0 0		Angle 0° 0° 0° 0° 0° 0° 0°	Fair (Y/N) ed D 2	Perforate (Y=1/N=0) rop Numb 3	er 4	(mm)	Avg. verage: 19 ± 2 mm	
No. 1 2 3 4 5 6 7 8 POST- Classing Notes Notes	(µs) TEST CLA B Time ay Temp	(ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(µs)	(ft/s) 0 0 0 0 0 0 0 0 0 0 F		Angle 0° 0° 0° ot Define 0°	Fair (Y/N) ed D 2 ements	Perforate (Y=1/N=0) rop Numb 3	er 4	(mm) 	Avg. verage: 19 ± 2 mm	

c - Too close to edge

f - Excessive area impacts (test terminated)

Penetration and BFS Firing Data - New Armor - Threat 2

F	Report N	lumber:	11137	7-06A	I	Report	Date:	05/15/0)9		Test Date:	
N	•	Test ID:	SAFARI SAF09-0	000463	LC.			Т	est Vel	nition: _ locity: _ oning: _	Wet	: 30 ft/s
-	rest dimi	ENSIONS:	Ran	ge Length:	50.30	ft.		Velocity 1: Velocity 2:				
							Samp	le 6				
							Back F					
Pane	l Serial I	No:	No	t Yet De	fined		Plate S	Serial No:		No	ot Yet Defined	
PRE-TI	EST CLAY	VALIDAT	ION:				Di	rop Numbe	er			
		lock ID:			Depth of		2	3	4	5	Avg.	
	Time	of Day:		HH:mm	Indent:	aast -						
Cla	ıy Temp	erature:		F		Require	ements:	All drops:	19 ± 3	mm,Av Pass:	verage: 19 ± 2 mm -	
TEST	CONDITIO	NS:			۵	rmor Su	bmersio	n			Firing Sequence	
		Start	End		Start:			HH:mm		Start:		łH:mm
Ambi	ent Temp:			F	End:			HH:mm		End:		HH:mm
Rel.	Humidity:			%	Duration:			min	D	uration:	r	nin
							BACK F					
<u>.</u>		Vel. 1	Time 2	Vel. 2	Vel. Avg.		Fair	Perforate		BFS		
	Time 1	(ft/s)	inne z (μs)	(ft/s)	(ft/s)	Angle	(Y/N)		Note		Comm	ients
No. 1	(µs)	0	(µə)	0	(103)	0°	(1/14)	(1 ,,,1 9)	11010		and a second	
2		0		0		0°				strates		Revenue Asses
2		0		0		0°						New York Carlos
4		0		0		0°						
5		0		0		ot Define	ed					
6		0		0		0°					Visione en el com	
7		0		0		A second de	99, 97, 98, 98, 98, 98, 98, 98, 98, 98, 98, 98			Sec.		
8		0	- Arcene	0			tata s		1.54			
					r			rop Numb	or			
POST		AY VALIDA			Depth of	1		3		5	Avg.	
		Block ID:		HH:mm	Indent:							
Cla	ay Temp	erature:		F	maent.	Require	ements	: All drops:	19 ± 3	mm, Av Pass:	verage: 19 ± 2 mm -	
NOTE	S:				P							
а-	Excessive	e velocity		d -	- Too close to	prior imp	act			g -	Impact on seam	

a - Excessive velocity

b - Insufficient velocity

c - Too close to edge

d - Too close to prior impact

e - Excessive total impacts (test terminated)

f - Excessive area impacts (test terminated)

Penetration and BFS Firing Data - New Armor - Threat 2

F	Report N	lumber:	11137	7-06A	. 1	Report	Date:	05/15/	09		Test Date:	
N		Test ID:	SAFARI SAF09-0	00463	LC			Т	est Ve	nition: _ locity: _ oning: _	Wet	± 30 ft/s
٦	TEST DIMI	ENSIONS:	Ran	ge Length:		ft.		Velocity 1: Velocity 2:				
							Samp	ole 7				
							Front F	Panel				
Panel	l Serial I	No:	No	t Yet De	fined		Plate S	Serial No:		No	ot Yet Defined	
PRE-TI	EST CLAY		ION:					rop Numb	er			
	В	lock ID:			Depth of	1	2	3	4	5	Avg.	
	Time	of Day:	Upped H	HH:mm	Indent:			t land, st	in de la composition br>Composition de la composition de la comp			
Cla	iy Temp	erature:		F		Require	ements:	All drops:			rerage: 19 ± 2 mm -	
TEOT		NO.				rmor Su	bmersio	n			Firing Sequence	
IESIC	CONDITIO	Start	End				DILICISIO			Start	Timg Coquence	HH:mm
Ambi	ont Tomo	Jian		F						End:		HH:mm
Rel.	Humidity:			%	Duration:				D			min
							FRONT	ΡΔΝΕΙ				
Shot	Time 1	Vel. 1	Time 2	Vel. 2	Vel. Avg.			Perforate		BFS		
No.	(μs)	(ft/s)	(µs)	(ft/s)	(ft/s)	Anale		(Y=1/N=0)	Note		Comr	nents
1	(P°/	0	<u> </u>	0		0°		an sens			a and the state and t	
2		0		0		0°			sugar ta		aana di Kadama	
3		0		0		0°						
4		0		0		0°						
5		0		0		ot Define	ed					
6		0		0		0°						
7		0	1.1.411	0		1.1433		and and the second s		anti dan		
8	a ga ti	0		0				a an		1.11.1		
												1
POST		AY VALIDA						rop Numb				
	E	Block ID:	<u>e çe saan s</u>		Depth of	1	2	3	4	5	Avg.	
Cla	Time ay Temp	e of Day: perature:		HH:mm F	Indent:	Require	ements	: All drops:	19 ± 3	mm, Av Pass:	verage: 19 ± 2 mm -	
NOTE a -	S: Excessive	e velocity		d	- Too close to	prior imp	act			g -	Impact on seam	

b - Insufficient velocity

c - Too close to edge

e - Excessive total impacts (test terminated)

f - Excessive area impacts (test terminated)

CTR Draft Revision 353

EXPORT CONTROLLED DATA.

Penetration and BFS Firing Data - New Armor - Threat 2

F	Report N	umber:	11137	7-06A	. 1	Report	Date:	05/15/0)9		Test Date: <u>Andreastic Andreastic</u>	
N		acturer: Test ID: or Type:	SAF09-0	000463	LC.			T	est Vel	nition: _ locity: _ oning: _	± 30 ft/s Wet	
٦	TEST DIME	ENSIONS:	Ran	ge Length:		ft.		Velocity 1: _ Velocity 2: _				
							Samp	ole 7				
							Back F					
Pane	l Serial N	No:	No	t Yet De	fined			Serial No:		No	ot Yet Defined	
PRE-TI	EST CLAY	VALIDATI	ON:				Di	rop Numbe	ər			
		lock ID:			Depth of	1	2		4	5	Avg.	
	Time	of Day:	ang sa sa tang Ang sa sa tang	HH:mm	Indent:		and the second		an sec			
Cla	ay Tempo	erature:		F		Require	ements:	All drops:			verage: 19 ± 2 mm	
						rmor Su	bmersio	n			Firing Sequence	
IESIC	CONDITIO	Start	End				Dillerato			Start	HH:mm	
المعامل	ant Tamai			F	End	<u></u>		HH:mm			HH:mm	
Amble	ent Temp: Humidity:		-	%	Duration:			min	п		min	
Rei.				70	Duration.				D	urudom j	· · · · · · · · · · · · · · · · · · ·	
	· · · · · · · · · · · · · · · · · · ·						BACK F	ANEL				
Shot	Time 1	Vel. 1	Time 2	Vel. 2	Vel. Avg.		Fair	Perforate		BFS		
No.	(µs)	(ft/s)	(µs)	(ft/s)	(ft/s)	Angle	(Y/N)	(Y=1/N=0)	Note	(mm)	Comments	
1		0		0		0°			ALC: N			
2		0		0		0°	din entre					
3												1
		0	1. A. 19	0		0°					versen en anderen anderen en er	·
4		0		0		0°						-
-						-						
4 5		0		0		00	ed .					
4		0		0		0º ot Define	ed					
4 5 6		0 0 0		0 0 0		0° ot Define 0°	ed					
4 5 6 7		0 0 0 0		0 0 0 0		0° ot Define 0°						
4 5 6 7 8	-TEST CLA	0 0 0 0 0	TION:	0 0 0 0		0° ot Define 0°	10000000 100000000 1000000000 D	rop Numb				
4 5 6 7 8		0 0 0 0 0 0		0 0 0 0 0	Depth of	0° ot Define 0°	10000000 100000000 1000000000 D	3		5	Avg.	
4 5 6 7 8	В	0 0 0 0 0	<u>(</u>	0 0 0 0	Indent:	0° ot Define 0°	D 2	3	er 4			
4 5 6 7 8 POST-	В	0 0 0 0 VALIDA Block ID: e of Day:	<u>lean an a</u>	0 0 0 0 0	Indent:	0° ot Define 0°	D 2	3	er 4		Avg. verage: 19 ± 2 mm	
4 5 6 7 8 POST-	B Time ay Temp	0 0 0 0 VALIDA Block ID: e of Day:	<u>lean an a</u>	0 0 0 0 0	Indent:	0° ot Define 0°	D 2	3	er 4	<i>mm</i> , A		

b - Insufficient velocity

c - Too close to edge

e - Excessive total impacts (test terminated)

f - Excessive area impacts (test terminated)

CTR Draft Revision 353

EXPORT CONTROLLED DATA.

Page 2 of 2

Penetration and BFS Firing Data - New Armor - Threat 2

F	Report N	umber:	11137	7-06A	. 1	Report	Date:	05/15/	09		Test Date:	<u>estra da tradesta da</u>
			SAFARI		LC.				Ammur			
	•	Test ID:	SAF09-0	000463				Т	est Ve	ocity:		± 30 ft/s
N	IIJ Armo	ог Туре:	;	3					onditio			•
	TEST DIMI	ENSIONS:	Ran	ge Length:		ft.		Velocity 1: Velocity 2:				
							Samp					
Pane	I Serial I	No:	No	ot Yet De	fined		Front F Plate S	Panel Serial No:	•	N	ot Yet Defined	
PRE-TI	EST CLAY						Di	rop Numb]
	В	lock ID:	: 		Depth of	1	2	3	4	5	Avg.	
	Time	of Day:		HH:mm	Indent:		(aster	an Alba	Section	1995		
Cla	y Temp	erature:	<u></u>	F		Require	ements:	All drops:	19 ± 3	mm , Av Pass:	verage: 19 ± 2 mm -	
TEST	CONDITIO						bmersio				Firing Sequence	
			End		Start:		<u></u>	HH:mm		Start:		_HH:mm
				F	End:			HH:mm	_			
Rel.	Humidity:			%	Duration:			min	U	uration:	<u></u>	_min
							FRONT	PANEL				
Shot No.	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Com	ments
1	<u>(F-7</u>	0		0	·····	0°	· · · · · ·				NE ALVEND STREET	
2		0		0		0°	. N. A					
3		0		0		0°	n Arren					
4		0		0		0°		a transfer				
5		0	1.1.11	0	L	ot Define	bd	Same St.	1.1			<u>a na hAna an tast ta</u>
6		0	in the last	0		0°		ann a' stàite				
7		0	1.1.1.1.1.1.1	0		10.1				a ta sa ta sa		
8		0	NA 8 8 8 8	0	1	a tain		a da sata sa sa		stavstvi.		
					-	-						7
POST	TEST CLA							rop Numb		-		-
			<u></u>	·	Depth of		2		4	5	Avg.	4
~	lime	e or Day	<u> </u>	HH:mm	Indent:		monto	All drops:	10 + 2		l verage: 19 ± 2 mm	-
Cla	ay remp	erature	<u>printer en en</u>	r.		Require	ements	. All utops:	19 1 3	Pass:		
NOTE	S:				I					1 433.		1
а-	Excessive	e velocity		d	 Too close to 	prior imp	act			g -	Impact on seam	
					Evennetive to	tal impac	1- /111-	(minotod)				

b - Insufficient velocity

c - Too close to edge

e - Excessive total impacts (test terminated)

f - Excessive area impacts (test terminated)

Penetration and BFS Firing Data - New Armor - Threat 2

Manufacturer: SAFARILAND, LLC. Ammunition: Test ID: SAF09-000463 Test Velocity: ± 30 ft/s NIJ Armor Type: 3 Conditioning: Wet TEST DIMENSIONS: Range Length: n. Velocity : n. Yelocity 2: n. Sample 8 Back Panel Plate Serial No: Not Yet Defined Pret-rest CLAV VALIDATION: Block ID: Htmm Depth of 1 2 3 4 5 Avg. Time of Day: Htmm Htmm Test 'Plate Serial No: Not Yet Defined Plate Serial No: Not Yet Defined Time of Day: Htmm Depth of 1 2 3 4 5 Avg. Plate Serial No: Not Yet Defined Time of Day: Htmm Depth of 1 2 3 4 5 Avg. Plate Serial No: Plate Serial No: Not Yet Defined Start End Start: Htmm Start: Htmm Plate Serial No: Plat. Start Htmm </th <th>F</th> <th>Report N</th> <th>lumber:</th> <th>11137</th> <th>7-06A</th> <th></th> <th>Report</th> <th>Date:</th> <th>05/15/</th> <th>09</th> <th></th> <th>Test Date:</th> <th>philipping and a sum</th>	F	Report N	lumber:	11137	7-06A		Report	Date:	05/15/	09		Test Date:	philipping and a sum
Velocity 2:ft. Sample 8 Back Panel Panel Serial No: Not Yet Defined Pre-rest cLAY VALIDATION: Block ID:F Depth of 1 2 3 4 5 Avg. Indent: 1 2 3 4 5 Avg. Clay Temperature:F F Depth of 1 2 3 4 5 Avg. Indent: 1 2 3 4 5 Avg. Clay Temperature:F Depth of 1 2 3 4 5 Avg. Indent: 1 1 2 3 4 15 Avg. Start End Start:HH:mm BACK PANEL BACK PANEL BACK PANEL BACK PANEL Imme 1 Vel. 1 Time 2 Vel. 2 Vel. Avg. Indent: 1 Time 1 Vel. 1 Time 2 Vel. 2 Vel. Avg. Not (rts) Angle Perforate BACK PANEL Indent: 1 Imme 1 Vel. 1 Time 2 Vel. 2 Vel. Avg. Imme	٢		Test ID:	SAF09-0	00463	LC.			т	est Ve	locity: _		± 30 ft/s
Back Panel Back Panel Plate Serial No: Not Yet Defined PRE-TEST CLAY VALIDATION: Block ID: Time of Day: Clay Temperature: Start Image: Clay Compension Image: Clay Clay Clay Clay Clay Clay Clay Clay	-	TEST DIMI	ENSIONS:	Ran	ge Length:		ft.						
Back Panel Back Panel Plate Serial No: Not Yet Defined PRE-TEST CLAY VALIDATION: Block ID: Time of Day: Clay Temperature: Start Image: Clay Compension Image: Clay Clay Clay Clay Clay Clay Clay Clay								Samp	ole 8				
Panel Serial No: Not Yet Defined Plate Serial No: Not Yet Defined PRE-TEST CLAY VALIDATION: Block ID:													
Block ID:	Pane	I Serial I	No:	No	t Yet De	fined					No	ot Yet Defined	
Block ID:	PRE-T	EST CLAY	' VALIDAT	ION:				D	rop Numb	ər			
Time of Day:HH::::::::::::::::::::::::::::						Depth of	1				5	Avg.	
Clay Temperature:F Requirements: All drops: $19 \pm 3 mm$, Average: $19 \pm 2 mm$ Pass: TEST CONDITIONS: Firing Sequence Start End Start:HH:mm Firing Sequence Ambient Temp:F End:HH:mm Firing Sequence BACK PANEL BACK PANEL Start:HH:mm HI:mm Time 1 Vel. 1 Time 2 Vel. 2 Vel. Avg. Fair Perforate BFS Start:HH:mm End:HH:mm End:		Time	of Day:		HH:mm				- Expanse	New York	groei -		
Start End Start: HH:mm Start: HH:mm Start: HH:mm Ambient Temp:	Cla	ay Temp	erature:		F		Require	ements:	All drops:	19 ± 3			
Shot Time 1 Vel. 1 Time 2 Vel. 2 Vel. Avg. Fair Perforate (YIN) BFS (mm) Comments 1 0 0 0 0° - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - </td <td>Ambi</td> <td>ent Temp:</td> <td>Start</td> <td></td> <td>F %</td> <td>Start: End:</td> <td>- 1</td> <td></td> <td>HH:mm HH:mm</td> <td>D</td> <td>End:</td> <td></td> <td>HH:mm</td>	Ambi	ent Temp:	Start		F %	Start: End:	- 1		HH:mm HH:mm	D	End:		HH:mm
Shot Time 1 Vel. 1 Time 2 Vel. 2 Vel. Avg. Fair Perforate BFS Comments 1 0 0 0 0° 1 1 0 0 0° 1 1 0 0 0° 1 1 0 0 0 0° 1 1 0 0 0 0° 1 1 0 0 0 0° 1 1 1 0 0 0 0° 1 1 1 1 0 0 0 0° 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								BACK	ANFI				
1 0 0 0°				1		-	Angle	Fair	Perforate	Note		Comn	nents
3 0 0 0°	1		0		0		0°					Anna an an Anna	e Never a strange a strange
0 0 0 0°	2	1.1.1 N	0	la su	0		0°	: AND A		55. Jac			
7 0 0 ot Defined 6 0 0 0° 0° 7 0 0 0° 0° 8 0 0 0 0° POST-TEST CLAY VALIDATION: Block ID: Time of Day: Drop Number	3		0		0		0°				14.192	det in a states	and the second
6 0 0 0° Image: Constraint of the second sec	4		0		0		0°		and the first of the second				
0 0 0 0 7 0 0 0 0 8 0 0 0 0 POST-TEST CLAY VALIDATION: Block ID: Time of Day: Drop Number HH:mm Depth of 1 2 3 4 5 Avg.	5		0		0			ed	1.1.2.2.2				
8 0 0 0 POST-TEST CLAY VALIDATION: Block ID: Time of Day: Drop Number	6			1997 (NR)			00		<u> Name an Nam</u>				
POST-TEST CLAY VALIDATION: Block ID: Time of Day: HH:mm	7		0	1. 389 M.M.			<u></u>			CALLAN.		<u>ad Alfreenseder</u>	
Block ID: Depth of 1 2 3 4 5 Avg Time of Day: HH:mm Indent: Indent: Avg	8		0		0			an di Mi Navi Sala			Altan St.		
Block ID: Depth of 1 2 3 4 5 Avg Time of Day: HH:mm Indent: Indent: Avg				TION				D	ron Numb	or			
Time of Day: Acception HH:mm Indent: Acception Acception Acception Acception Acception	POST					Depth of	1				5	Avg.	
Clay Temperature: F Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm Pass: -	Cla	Time	e of Day:	1.5.5.5.5.	HH:mm	Indent:	a sa	ann an		14 - 14 - 14 - 14 - 14 - 14 - 14 - 14 -		verage: 19 ± 2 mm -	
NOTES: a - Excessive velocity d - Too close to prior impact g - Impact on seam			e velocity		d	- Too close to	prior imr	act			g -	Impact on seam	'

b - Insufficient velocity

c - Too close to edge

e - Excessive total impacts (test terminated)

f - Excessive area impacts (test terminated)

EXPORT CONTROLLED DATA.

Ballistic Limit Firing Data - New Armor - Threat 1

	R	eport Nı	umber:	11137	-06A	Re	port Date:	05/1	5/09	Test Date:	05/14/09
		Manufa	cturer:		SAFARI	ILAND, LLC	D .	Ami	nunition:	7.62mm	147/FMJ
		Т	est ID:		SAFO	9-000463					
	N	IJ Armo		3				Con	ditioning:	Dry	
	Т	EST DIME	NSIONS:	Rang	e Length:	50.30	_ft.		Velocity 1: Velocity 2:		t. t.
						-					
							ample 11				
						Fr	ont Panel				
Panel S	erial No):	-		NA	<u> </u>	_	Plate Seria	al No:	14	·
PRE-TES	T CLAY V	ALIDATIO	N:								
Bl	ock ID:	R1\	/50		ſ			Drop 1	Drop 2	Drop 3 Drop 4	
		1:2		HH:mm		Depth	of Indent:	21	21	21 22	20 21.0
Tempe	rature:	100).4	F			R	equirement	s: All drop	s: 19 ± 3 mm , Av	erage: 19 ± 2 mm Pass: Yes
	Rel.	ent Temp: Humidity:	66	%	le Numb	End: Duration: Der(s) in Re	:1: :1 :1 emarks Col ANEL 1 - Fror	³⁷ 0 umn as Ar	HH:mm HH:mm min pplicable		
014	Charge	Time 1	Vel. 1	Time 2	Vel. 2	Vel. Avg.	1	sult	Used		
Shot	Charge	(µs)	(ft/s)	(μs)	(ft/s)	(ft/s)	Perf (CP)	1	(Y/N)	Re	marks
<u>No.</u>	Weight	(µs) 1773	2820	<u>(μ</u> s) 1778	2812	2816		<u>оюр ((т.)</u> Х	<u> </u>		ana ana ana ana ana a
2	73.0 75.0	1748	2860	1749	2859	2860		x	N		
<u> </u>	75,0 80.0	1748	3157	1588	3149	3153		x	N		
4	83.5	1522	3285	1526	3277	3281		X	N	Sector and the	
5	87.0	1458	3429	1459	3427	3428	x		N	(b)	n, militana ana
6	86.0	1482	3374	1484	3369	3372		x	N	(a)	antika antik NY
7	00.0	1402	0		0						and Strengthered
8			0		0	•••••					
9			0		0						han dia <u>Anna</u> ta di
10	and the second second			i in the second second	-				the second s	The second secon	
10	1.1.1.1.1.1.1.1.1		0	1.1	0		a second the		1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.		an a shi sa sa sa
11			0		-						<u>an an Alberta</u> Russian an A
11			0		0 0 0						<u>ere se de la composition de la compositi en composition de la com </u>
12			0		0						
			0		0						

Remarks:

15

a - Too close to edge

0

0 Count:

6

b - Too close to prior impact

5

0

1

c - Impact on seam

CTR Draft Revision 353

EXPORT CONTROLLED DATA.

Page 1 of 2

Ballistic Limit Firing Data - New Armor - Threat 1 Report Number: 11137-06A Report Date: 05/15/09 Test Date: 05/14/09 Ammunition: 7.62mm 147/FMJ SAFARILAND, LLC. Manufacturer: SAF09-000463 Test ID: 3 Conditioning: Dry NIJ Armor Type: TEST DIMENSIONS: Range Length: 50.30 ft. Velocity 1: 5.00 ft. 5.00 ft. Velocity 2: Sample 11 **Back Panel** Not Yet Defined Plate Serial No: Not Yet Defined Panel Serial No: PRE-TEST CLAY VALIDATION: Drop 1 Drop 2 Drop 3 Drop 4 Drop 5 Avg. Block ID: Depth of Indent: Time of Day: HH:mm Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm / Temperature: F Pass: TEST CONDITIONS: **Firing Sequence** HH·mm Ambient Temp: Start: F HH:mm End: Rel. Humidity: % min Duration: Enter NIJ Armor Types III and IV Sample Number(s) in Remarks Column as Applicable BL PANEL 1 - Front Vel. 1 Time 2 Vel. 2 Vel. Avg. Result Used Time 1 Shot Charge No. Weight (ft/s) (µs) (ft/s) (ft/s) Perf (CP) Stop (PP) (Y/N) Remarks (µs) 0 0 1 0 0 2 0 0 3 0 4 0 5 0 0 6 0 0 0 0 7 0 0 8 9 0 0 0 0 10 11 0 0

Remarks:

12

13

14

15

a - Too close to edge

0

0

0

0

0

0

0

0 Count:

0

b - Too close to prior impact

0

0

0

c - Impact on seam

EXPORT CONTROLLED DATA.

Ballistic Limit Firing Data - New Armor - Threat 1

	R	eport Ni	umber:	11137	-06A	Rej	port Date:	05/15	/09	Test Date:	05/14/09
		Manufa				LAND, LLC		Amr	nunition:	7.62mm	147/FMJ
			est ID:		and the second se	9-000463		_		14/157	
	N	IJ Armo	r Type: _	3				Conc	litioning:	WET	
	т	EST DIME	NSIONS:	Rang	e Length:	50.30	ft.		Velocity 1:	5.00 f	t.
					-				Velocity 2:	5.00 f	t.
						Sa	mple 12				
						Fre	ont Panel				
Panel S	Serial No):			NA			Plate Seria	l No:	11	
BI Time	ock ID: of Day:	ALIDATION ER-3 2:3 100	-V50 36	HH:mm F		Depth	of Indent:		20	Drop 3 Drop 4 20 21 s: 19 ± 3 mm , Av	Drop 5 Avg. 19 20.0 rerage: 19 ± 2 mm Pass: Yes
Enter N	Rel.	ent Temp: Humidity: or Types	68	%	le Numb	End: Duration: er(s) in Re		umn as Ap	HH:mm HH:mm min plicable		
							ANEL 1 - Fron	r		1	
Shot	Charge	Time 1	Vel. 1	Time 2	Vel. 2	Vel. Avg.		sult	Used	_	
No.	Weight	(µs)	(ft/s)	(µs)	(ft/s)	(ft/s)	Perf (CP)	Stop (PP)	(Y/N)		marks
1	72.5	1827	2737	1831	2731	2734		X	Y	#12 FRONT	
2	76.5	1687	2964	1690	2959	2961		X	Y	#12 FRONT	
3	80.0	1596	3133	1596	3133	3133		$\mathbf{X}_{1} = \mathbf{X}_{1}$	Y	#12 FRONT	
4	83.0	1523	3283	1528	3272	3278		X	Y	#12 FRONT	an an third an an air an air an
5	86.0	1482	3374	1486	3365	3369	gana (spin)	X	Y	#12 FRONT	
6	89.0	1421	3519	1423	3514	3516	X		Y	#12 FRONT	han asalihin saarii
7	87.5	1461	3422	1470	3401	3412	States and St.	X	Y	#13 FRONT	de se servició de seco.
8	88,5	1452	3444	1457	3432	3438	1943-1943-194	X	Y	#13 FRONT PROJE	CTILE EXITED SIDE O
9	89.0	1434	3487	1434	3487	3487	x		Y	#13 FRONT	
10	88.5	1457	3432	1457	3432	3432		X	Y	#13 FRONT	
11			0		0						
11			0		0						Second States and
12			0		0						
14			0		0						
14	<u>, a la trita</u>		0		0				and a state of the second s Second second		
10	1.5.2.2.5	and the state of the		egen de jacobie	· ·				an thair the sheet of	The substant of the back of the	

Remarks:

a - Too close to edge

b - Too close to prior impact

8

2

c - Impact on seam

10

EXPORT CONTROLLED DATA.

This document contains technical information whose export is governed by the U.S. International Traffic in Arms Regulations (ITAR). This information must not be transferred to a foreign person/entity without proper authorization of the U.S. Government.

Count:

10

Ballistic Limit Firing Data - New Armor - Threat 1

	R	eport N	umber:	11137	-06A	Rej	port Date:	05/15	/09	Test Date:	05/14/09
		Manufa	cturer:		SAFAR	ILAND, LLC		Amn	nunition:	7.62mm	147/FMJ
		T	est ID:			9-000463					
	N	IJ Armo		3				Conc	litioning:	WET	
	т	EST DIME	NSIONS:	Rang	e Length:	50.30	ft.		Velocity 1:	5.00	ft.
	-			Ū					Velocity 2:	5,00	ft.
						Sa	mple 12				
							ck Panel				
Panel S	erial No):		No	ot Yet De	fined		Plate Seria	l No:	Not Yet Def	ined
BI Time	ock ID: of Day:	ALIDATIO ER5 1:2 103	-V50 23	HH:mm F	[Depth	of Indent: R	Drop 1 20 equirements	21	Drop 3 Drop 4 21 20 s: 19 ± 3 mm , A	Drop 5 Avg. 20 20.4 verage: 19 ± 2 mm Pass: Yes
2	Rel.	ent Temp: Humidity:	36	F % IV Samp	le Numb	End: Duration:	Firing Se 1: 1: 2 marks Col	30 57	HH:mm HH:mm nin plicable		
						BL PA	NEL 1 - Fron	t			
Shot	Charge	Time 1	Vel. 1	Time 2	Vel. 2	Vel. Avg.	Re	sult	Used		
No.	Weight	(µs)	(ft/s)	(μs)	(ft/s)	(ft/s)	Perf (CP)	Stop (PP)	(Y/N)	R	emarks
1	72.5	1880	2660	1884	2654	2657	10000000	X	Y	#14 FRONT	a galang kana a
2	76.5	1709	2926	1709	2926	2926		\mathbf{X}	Y	#14 FRONT	
3	78.5	1646	3038	1646	3038	3038		X	Y	#14 FRONT	el, vereller ver
4	80.5	1583	3159	1592	3141	3150		1. X	Y	#14 FRONT	Ne and Stiller
5	82.5	1524	3281	1529	3270	3275		X	Y	#14 FRONT	The case where a second
6	84.2	1502	3329	1506	3320	3324	a ha sa sa ba	X	Y	#14 FRONT	
7	86.0	1466	3411	1470	3401	3406	da seren de la	X	Y	#15 FRONT	
8	88,5	1434	3487	1439	3475	3481		Х	Y	#15 FRONT	
9	89.0	1443	3465	1443	3465	3465		X	Y	#15 FRONT	
10	89.0	1547	3232	1556	3213	3223	Х		N	(a) #15 FRONT	
11	89.0	1425	3509	1439	3475	3492		X	Y	#15 FRONT	
12	89.0	1434	3487	1439	3475	3481	X		Y	#15 FRONT	NET STREET
13			0		0			a special and the	than and	a harasan a s	Re <u>ner (1997)</u>
14			0		0		le vez tekk	dana ad	a ana ang pangana		
15	Alex North		0	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	0					Nacoli de Alt	
<u> </u>	1.1.2.2.2.2.2			1	Count:	12	2	10	11		

Remarks:

a - Too close to edge

b - Too close to prior impact

c - Impact on seam

EXPORT CONTROLLED DATA.

Page 2 of 2

Ballistic Limit Firing Data - New Armor - Threat 1

	R	eport N	umber:	11137	7-06A	Re	port Date:	05/1	5/09	. Tes	st Date:	05/	19/09
		Manufa	cturer:		SAFAR	ILAND, LLC	D .	Am	munition:	7.62	2mm	14	7/FMJ
		1	Test ID:		SAFC	09-000463							
	Ν	IJ Armo	r Type:	3	3			Con	ditioning:	W	ET		
	т	EST DIME	INSIONS:	Rang	ge Length: _	50.30	_ft.		Velocity 1: Velocity 2:		00	ft. ft.	
						Si	ample 13						
							ont Panel						
Panel S	Serial No	b :		<u></u>	NA		-	Plate Seri	al No:		12		-
	T CLAY V												
BI	ock ID:	R1\	/50	-				Drop 1	Drop 2	Drop 3	Drop 4	Drop 5	Avg.
Time	of Day: erature:	<u></u>		HH:mm		Depth	of Indent:	<u>iona in</u> 1					
Tempe	erature:			.F			к	equiremen	ts: All drop	s: 19±3	3 <i>mm</i> , A	verage: Pass:	
rest co	NDITIONS						Firing Se	-					
	Ambio Rel.	ent Temp: Humidity:		%	ole Numt	End: Duration: Der(s) in Re	emarks Col ANEL 1 - Fror	umn as Ap	HH:mm HH:mm min pplicable				
	Ambio Rel.	ent Temp: Humidity:		%	ole Numk	End: Duration: Der(s) in Re	emarks Col ANEL 1 - Fror	umn as Ap	HH:mm min				
Enter N	Ambie Rel.	ent Temp: Humidity: or Types	; III and	- [%] IV Samp		End: Duration: Der(s) in Re BL P	emarks Col ANEL 1 - Fror	umn as Ap nt sult	HH:mm min oplicable		R	emarks	
Enter N	Ambie Rel. VIJ Armo Charge	ent Temp: Humidity: or Types Time 1	ill and Vel. 1	. [%] IV Samp Time 2	Vel. 2	End: Duration: Der(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap nt sult	HH:mm min oplicable Used		R	emarks	
Enter N Shot No.	Ambio Rel. VIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s)	- [%] IV Samp Time 2 (μs)	Vel. 2 (ft/s)	End: Duration: Der(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap nt sult	HH:mm min oplicable Used		R	emarks	
Enter N Shot No. 1	Ambio Rel. VIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1	i III and Vel. 1 (ft/s) 0	- [%] IV Samp Time 2 (μs)	Vel. 2 (ft/s) 2752	End: Duration: Der(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap nt sult	HH:mm min oplicable Used		R	emarks	
Enter N Shot No. 1 2	Ambio Rel. VIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1 (μs)	Vel. 1 (ft/s) 0 0 0 0	- [%] IV Samp Time 2 (μs)	Vel. 2 (ft/s) 2752 0 0 0	End: Duration: Der(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap nt sult	HH:mm min oplicable Used		R	emarks	
Shot No. 1 2 3	Ambio Rel. VIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1 (μs)	ill and Vel. 1 (ft/s) 0 0 0 0 0 0	- [%] IV Samp Time 2 (μs)	Vel. 2 (ft/s) 2752 0 0 0 0	End: Duration: Der(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap nt sult	HH:mm min oplicable Used		R	emarks	
Enter N Shot No. 1 2 3 4 5 6	Ambio Rel. VIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1 (μs)	vel. 1 (ft/s) 0 0 0 0 0 0 0	- [%] IV Samp Time 2 (μs)	Vel. 2 (ft/s) 2752 0 0 0 0 0	End: Duration: Der(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap nt sult	HH:mm min oplicable Used		R	emarks	
Enter N Shot No. 1 2 3 4 5 6 7	Ambio Rel. VIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1 (μs)	III and Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- [%] IV Samp Time 2 (μs)	Vel. 2 (ft/s) 2752 0 0 0 0 0 0 0 0	End: Duration: Der(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap nt sult	HH:mm min oplicable Used		R	emarks	
Enter N No. 1 2 3 4 5 6 7 8	Ambio Rel. VIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1 (μs)	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- [%] IV Samp Time 2 (μs)	Vel. 2 (ft/s) 2752 0 0 0 0 0 0 0 0 0 0 0	End: Duration: Der(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap nt sult	HH:mm min oplicable Used		R	emarks	
Enter N Shot No. 1 2 3 4 5 6 7	Ambie Rel. VIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1 (μs)	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- [%] IV Samp Time 2 (μs)	Vel. 2 (ft/s) 2752 0 0 0 0 0 0 0 0 0 0 0 0	End: Duration: Der(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap nt sult	HH:mm min oplicable Used		R	emarks	
Enter N No. 1 2 3 4 5 6 7 8 9 10	Ambie Rel. VIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1 (μs)	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- [%] IV Samp Time 2 (μs)	Vel. 2 (ft/s) 2752 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End: Duration: Der(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap nt sult	HH:mm min oplicable Used		R	emarks	
Enter N No. 1 2 3 4 5 6 7 8 9	Ambie Rel. VIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1 (μs)	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- [%] IV Samp Time 2 (μs)	Vel. 2 (ft/s) 2752 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End: Duration: Der(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap nt sult	HH:mm min oplicable Used		R	emarks	
Enter N No. 1 2 3 4 5 6 7 8 9 10	Ambie Rel. VIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1 (μs)	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- [%] IV Samp Time 2 (μs)	Vel. 2 (ft/s) 2752 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End: Duration: Der(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap nt sult	HH:mm min oplicable Used		R	emarks	
Enter N No. 1 2 3 4 5 6 7 8 9 10 11	Ambie Rel. VIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1 (μs)	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- [%] IV Samp Time 2 (μs)	Vel. 2 (ft/s) 2752 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End: Duration: Der(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap nt sult	HH:mm min oplicable Used		R	emarks	
Enter N No. 1 2 3 4 5 6 7 8 9 10 11 12	Ambie Rel. VIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1 (μs)	III and Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- [%] IV Samp Time 2 (μs)	Vel. 2 (ft/s) 2752 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End: Duration: Der(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap nt sult	HH:mm min oplicable Used			emarks	
Enter N No. 1 2 3 4 5 6 7 8 9 10 11 11 12 13	Ambie Rel. VIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1 (μs)	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- [%] IV Samp Time 2 (μs)	Vel. 2 (ft/s) 2752 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End: Duration: Der(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fror Perf (CP)	umn as Ap it sult Stop (PP)	HH:mm min oplicable Used				

....

a - Too close to edge

b - Too close to prior impact

c - Impact on seam

EXPORT CONTROLLED DATA.

Ballistic Limit Firing Data - New Armor - Threat 1

	R	leport N		11137			•	05/1	5/09	. 165	st Date:	05/	19/09
		Manufa	acturer:		SAFAR	ILAND, LLC	C .	Am	munition:	7.62	?mm	147	/FMJ
		٦	Fest ID:		SAF	09-000463							
	N	IJ Armo	r Type:	3	3			Con	ditioning:	W	ET		
	Т	ESTIDIME	INSIONS:	Rang	ge Length:	50.30	ft.		Velocity 1: Velocity 2:		00	_ft. _ft.	
						Si	ample 13						
							ack Panel						
anel S	Serial No):		N	ot Yet De	fined	-	Plate Seri	al No:	Not	Yet De	fined	
	ST CLAY V				_								
BI	lock ID:			-				Drop 1	Drop 2	Drop 3	Drop 4	1 Drop 5	Avg.
Time	of Day:			HH:mm		Depth	of Indent:	1996 - A.			An ann a'		
Tempe	erature:			F			R	equiremen	ts: All drop	s: 19 ± 3	3 mm , A	verage: Pass:	19 ± 2 mi -
EST CO	ONDITIONS Ambie Rel.	S: ent Temp: Humidity:		F %		End:	Firing Se	lana an Ang ang ang ang ang ang ang ang ang ang a	HH:mm HH:mm				
	Ambio Rel.	ent Temp: Humidity:			ole Numi	End: Duration: Der(s) in Re	emarks Col	umn as Ar	HH:mm min				
Enter N	Ambio Rel. NIJ Armo	ent Temp: Humidity: or Types	s III and	IV Samp		End: Duration: Der(s) in Re BL P	emarks Col ANEL 1 - Fror	umn as Ap	HH:mm min oplicable				
Enter M	Ambio Rel.	ent Temp: Humidity: or Types Time 1	Vel. 1	IV Samp	Vel. 2	End: Duration: Der(s) in Re BL P/ Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap it sult	HH:mm min pplicable Used		R	Remarks	
Enter M Shot No.	Ambio Rel. NIJ Armo	ent Temp: Humidity: or Types	Vel. 1 (ft/s)	IV Samp	Vel. 2 (ft/s)	End: Duration: Der(s) in Re BL P	emarks Col ANEL 1 - Fror	umn as Ap It sult	HH:mm min pplicable Used (Y/N)		R	Remarks	
Enter M Shot No.	Ambie Rel. VIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s)	IV Samp	Vel. 2 (ft/s) 0	End: Duration: Der(s) in Re BL P/ Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap it sult	HH:mm min pplicable Used		F	Remarks	
Shot No. 1 2	Ambio Rel.	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0	IV Samp	Vel. 2 (ft/s) 0 0	End: Duration: Der(s) in Re BL P/ Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap it sult	HH:mm min pplicable Used (Y/N)		F	Remarks	
Shot No. 1 2 3	Ambie Rel. VIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0	IV Samp	Vel. 2 (ft/s) 0 0	End: Duration: Der(s) in Re BL P/ Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap it sult	HH:mm min pplicable Used (Y/N)		F	Remarks	
Shot No. 1 2 3 4	Ambie Rel. VIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0 0	IV Samp	Vel. 2 (ft/s) 0 0 0	End: Duration: Der(s) in Re BL P/ Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap it sult	HH:mm min oplicable Used (Y/N)		F	Remarks	
Enter N Shot No. 1 2 3 4 5	Ambie Rel. VIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0 0 0 0	IV Samp	Vel. 2 (ft/s) 0 0	End: Duration: Der(s) in Re BL P/ Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap it sult	HH:mm min oplicable Used (Y/N)		F	Remarks	
Enter N Shot No. 1 2 3 4 5 6	Ambie Rel. VIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0	IV Samp	Vel. 2 (ft/s) 0 0 0 0	End: Duration: Der(s) in Re BL P/ Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap it sult	HH:mm min oplicable Used (Y/N)		F	Remarks	
Shot No. 1 2 3 4 5 6 7	Ambie Rel. VIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0	IV Samp	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0	End: Duration: Der(s) in Re BL P/ Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap it sult	HH:mm min oplicable Used (Y/N)		F	Remarks	
Shot No. 1 2 3 4 5 6 7 8	Ambie Rel. VIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0	IV Samp	Vel. 2 (ft/s) 0 0 0 0 0 0	End: Duration: Der(s) in Re BL P/ Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap it sult	HH:mm min oplicable Used (Y/N)		R	Remarks	
Shot No. 1 2 3 4 5 6 7 8 9	Ambie Rel. VIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	IV Samp	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0	End: Duration: Der(s) in Re BL P/ Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap it sult	HH:mm min oplicable Used (Y/N)		F	Remarks	
Shot No. 1 2 3 4 5 6 7 8 9 10	Ambie Rel. VIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	IV Samp	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0	End: Duration: Der(s) in Re BL P/ Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap it sult	HH:mm min oplicable Used (Y/N)		F	Remarks	
Shot No. 1 2 3 4 5 6 7 8 9 10 11	Ambie Rel. VIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	IV Samp	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End: Duration: Der(s) in Re BL P/ Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap it sult	HH:mm min oplicable Used (Y/N)		F	Remarks	
Shot No. 1 2 3 4 5 6 7 8 9 10 11 12	Ambie Rel. VIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	IV Samp	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End: Duration: Der(s) in Re BL P/ Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap it sult	HH:mm min oplicable Used (Y/N)		F	2emarks	
Enter N No. 1 2 3 4 5 6 7 8 9 10 11 12 13	Ambie Rel. VIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	IV Samp	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End: Duration: Der(s) in Re BL P/ Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap it sult	HH:mm min oplicable Used (Y/N)		F	2emarks	
Enter N No. 1 2 3 4 5 6 7 8 9 10 11 12	Ambie Rel.	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	IV Samp	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End: Duration: Der(s) in Re BL P/ Vel. Avg.	emarks Col ANEL 1 - Fror Re Perf (CP)	umn as Ap it sult	HH:mm min oplicable Used (Y/N)		F	2emarks	

marks.

a - Too close to edge

b - Too close to prior impact

c - Impact on seam

EXPORT CONTROLLED DATA.

Page 2 of 2

Ballistic Limit Firing Data - New Armor - Threat 1

	R	eport N	umber:	11137	′-06A	Re	eport Date:	05/1	5/09	Tes	t Date:	<u>le verses se s</u>	<u></u>
		Manufa				LAND, LL		Am	munition:	7.62	mm	147	/FMJ
			est ID:			9-000463							
	N	IJ Armo	r Type:	3	<u> </u>			Con	ditioning:	W	ET		
	т	EST DIME	NSIONS:	Rang	e Length:	50.30	ft.		Velocity 1:		00	ft.	
									Velocity 2:	5.0	00	ft.	
						s	Sample 14						
						F	ront Panel						
Panel S	Serial No):			NA		_	Plate Seri	al No:		13		
		ALIDATIO											
BI	ock ID:				Γ				Drop 2	Drop 3	Drop 4	Drop 5	Avg.
l ime -	of Day:			HH:mm		Deptł	n of Indent:	an de trans-	anti ang san	and the second	Second	84. V.S.	
Tempe	erature:			F			R	equiremen	ts: All drop	s: 19±3	3 mm , A	verage: 1 Pass:	9 ± 2 mm -
					L								
TEST CO	NDITIONS	š:					Firing Se	equence					
TEST CO				F		Star	-	•	HH:mm				
TEST CO	Ambi	ent Temp:	<u></u>	F %			t: <u></u>		7				
TEST CO	Ambi		<u></u>	F %		Enc	t: <u></u>		HH:mm				
	Ambi Rel.	ent Temp: Humidity:		%		Enc Duratior	ti <u>1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 19</u> 19 <u>77 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997</u> - 1 19 <u>77 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997</u> - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 199		HH:mm min				
	Ambi Rel.	ent Temp: Humidity:		%	le Numb	Enc Duratior per(s) in R	t: d: n: emarks Col	umn as A	HH:mm min				
Enter N	Ambie Rel.	ent Temp: Humidity: or Types	III and	% IV Samp		Enc Duratior b er(s) in R BL F	t: l: emarks Col PANEL 1 - Fror	umn as A	HH:mm ^{min} pplicable				
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Enter N Shot No.	Ambie Rel.	ent Temp: Humidity: or Types	Vel. 1 (ft/s)	% IV Samp	Vel. 2 (ft/s)	Enc Duratior b er(s) in R BL F	t: l: emarks Col PANEL 1 - Fror	umn as A nt sult	HH:mm ^{min} pplicable		R	emarks	
Enter N	Ambie Rel. IIJ Armo Charge	ent Temp: Humidity: or Types Time 1	Vel. 1	% IV Samp Time 2	Vel. 2 (ft/s) 0	Enc Duratior pe r(s) in R BL F Vel. Avg.	t: d: emarks Col PANEL 1 - Fror Re	umn as A nt sult	HH:mm min pplicable Used		R	<u></u>	
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Enter N Shot No. 1 2 3 4 5	Ambie Rel. IIJ Armo Charge Weight	ent Temp: Humidity: Dr Types Time 1 (μs)	Vel. 1 (ft/s) 0 0 0 0 0 0	^{.%} IV Samp Time 2 (μs)	Vel. 2 (ft/s) 0 0 0 0 0	Enc Duratior pe r(s) in R BL F Vel. Avg.	t: : : : : : : : : : : : : :	umn as A nt sult	HH:mm min pplicable Used			<u></u>	
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Enter N No. 1 2 3 4 5 6 7 8	Ambie Rel. IIJ Armo Charge Weight	ent Temp: Humidity: Dr Types Time 1 (μs)	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0	^{.%} IV Samp Time 2 (μs)	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0	Enc Duratior pe r(s) in R BL F Vel. Avg.	t: : : : : : : : : : : : : :	umn as A nt sult	HH:mm min pplicable Used			<u></u>	
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Enter N No. 1 2 3 4 5 6 7 8 9 10 11	Ambie Rel. IIJ Armo Charge Weight	ent Temp: Humidity: Dr Types Time 1 (μs)	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	^{.%} IV Samp Time 2 (μs)	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Enc Duratior pe r(s) in R BL F Vel. Avg.	t: : : : : : : : : : : : : :	umn as A nt sult	HH:mm min pplicable Used			<u></u>	
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Enter N No. 1 2 3 4 5 6 7 8 9 10 11 12 13	Ambie Rel. IIJ Armo Charge Weight	ent Temp: Humidity: Dr Types Time 1 (μs)	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	^{.%} IV Samp Time 2 (μs)	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Enc Duratior pe r(s) in R BL F Vel. Avg.	t: : : : : : : : : : : : : :	umn as A nt sult	HH:mm min pplicable Used			<u></u>	
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Remarks:

a - Too close to edge

b - Too close to prior impact

c - Impact on seam

EXPORT CONTROLLED DATA.

Ballistic Limit Firing Data - New Armor - Threat 1 Report Number: 11137-06A Report Date: 05/15/09 Test Date: 147/FMJ 7.62mm Manufacturer: SAFARILAND, LLC. Ammunition: SAF09-000463 Test ID: Conditioning: WET NIJ Armor Type: TEST DIMENSIONS: Range Length: 50.30 ft. Velocity 1: 5.00 ft. 5.00 ft. Velocity 2: Sample 14 **Back Panel** Not Yet Defined Plate Serial No: Not Yet Defined Panel Serial No: PRE-TEST CLAY VALIDATION: Drop 1 Drop 2 Drop 3 Drop 4 Drop 5 Avg. Block ID: Time of Day: HH:mm Depth of Indent: Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm r Temperature: F Pass: Firing Sequence TEST CONDITIONS: HH:mm Ambient Temp: Start: End: HH:mm Rel. Humidity: % Duration: min Enter NIJ Armor Types III and IV Sample Number(s) in Remarks Column as Applicable BL PANEL 1 - Front Vel. 2 Vel. Avg. Used Vel. 1 Time 2 Result Time 1 Shot Charge Weight (ft/s) (µs) (ft/s) (ft/s) Perf (CP) Stop (PP) (Y/N) Remarks No. (µs) 0 1 0 0 2 0 0 3 0 0 0 4 0 0 5 6 0 0 0 0 7 0 0 8 9 0 0 0 0 10 0 0 11 0 0 12 0 0 13

Remarks:

14

15

a - Too close to edge

0

b - Too close to prior impact

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0

c - Impact on seam

0

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EXPORT CONTROLLED DATA.

This document contains technical information whose export is governed by the U.S. International Traffic in Arms Regulations (ITAR). This information must not be transferred to a foreign person/entity without proper authorization of the U.S. Government.

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Count:

0

Ballistic Limit Firing Data - New Armor - Threat 1

	R	eport N	umber:	11137	-06A	Re	port Date:	05/1	5/09	Tes	st Date:	<u> </u>	e glandere.
		Manufa	cturer:		SAFAR	ILAND, LLC).	Am	munition:	7.62	?mm	147	7/FMJ
			Fest ID:			09-000463							
	Ν	IJ Armo						Con	ditioning:	W	ET		
	Т	EST DIME	NSIONS:	Rang	le Length: _	50.30	ft.		Velocity 1: Velocity 2:			ft. ft.	
						Sa	ample 15						
						Fro	ont Panel						
Panel S	Serial No	b :			NA			Plate Seri	al No:	<u></u>	10		
	T CLAY V											1	
BI	lock ID:								Drop 2	Drop 3	Drop 4	Drop 5	Avg.
Time	lock ID: of Day:	<u> </u>		HH:mm		Depth	of Indent:	<u> Na sana</u>			<u></u>	Second State	10 1 0
Tempe	erature:	· · · · · · · · · · · · · · · · · · ·		F			R	equiremen	ts: All drop	s: 79±3	3 mm , A	verage: Pass:	19 ± 2 mm -
		2.			1		Firina Se	aneuce					
TEST CO	Rel.	ent Temp: Humidity:		_%	le Numi	End: Duration: ber(s) in Re		umn as Aj	HH:mm HH:mm min oplicable				
TEST CO	Ambie Rel.	ent Temp: Humidity: or Types	III and	_% IV Samp		End: Duration: ber(s) in Re BL P/	marks Col	lumn as Al	HH:mm min oplicable				
TEST CO	Ambi Rel. NIJ Armo Charge	ent Temp: Humidity: or Types Time 1	Vel. 1	- [%] IV Samp	Vel. 2	End: Duration: Der(s) in Re BL P/ Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Aj it sult	HH:mm min pplicable Used			emarks	
TEST CO	Ambi Rel. NIJ Arm o Charge Weight	ent Temp: Humidity: Dr Types Time 1 (μs)	Vel. 1 (ft/s)	- [%] IV Samp Time 2 (μs)	Vel. 2 (ft/s)	End: Duration: ber(s) in Re BL P/	marks Col	umn as Aj it sult	HH:mm min oplicable		R	emarks	
Enter N Shot No.	Ambi Rel. NIJ Armo Charge	ent Temp: Humidity: or Types Time 1	vel. 1 (ft/s)	- [%] IV Samp	Vel. 2 (ft/s) 0	End: Duration: Der(s) in Re BL P/ Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Aj it sult	HH:mm min pplicable Used		R	emarks	
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Enter N Shot No. 1 2 3 4	Ambi Rel. NIJ Arm o Charge Weight	ent Temp: Humidity: Dr Types Time 1 (μs)	Vel. 1 (ft/s) 0 0 0 0	- [%] IV Samp Time 2 (μs)	Vel. 2 (ft/s) 0 0 0	End: Duration: Der(s) in Re BL P/ Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Aj it sult	HH:mm min pplicable Used		R	emarks	
Enter N Shot No. 1 2 3 4 5	Ambi Rel. NIJ Arm o Charge Weight	ent Temp: Humidity: Dr Types Time 1 (μs)	Vel. 1 (ft/s) 0 0 0 0 0 0	- [%] IV Samp Time 2 (μs)	Vel. 2 (ft/s) 0 0 0 0 0	End: Duration: Der(s) in Re BL P/ Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Aj it sult	HH:mm min pplicable Used		R	emarks	
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TEST CO Enter N Shot No. 1 2 3 4 5 6 7 8 9	Ambi Rel. NIJ Arm o Charge Weight	ent Temp: Humidity: Dr Types Time 1 (μs)	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- [%] IV Samp Time 2 (μs)	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0	End: Duration: Der(s) in Re BL P/ Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Aj it sult	HH:mm min pplicable Used		R	emarks	
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TEST CO Enter N Shot No. 1 2 3 4 5 6 77 8 9 10 11	Ambi Rel. NIJ Arm o Charge Weight	ent Temp: Humidity: Dr Types Time 1 (μs)	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- [%] IV Samp Time 2 (μs)	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0	End: Duration: Der(s) in Re BL P/ Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Aj it sult	HH:mm min pplicable Used		R	emarks	
TEST CO Enter N Shot No. 1 2 3 4 5 6 77 8 9 10 11 11 12	Ambi Rel. NIJ Arm o Charge Weight	ent Temp: Humidity: Dr Types Time 1 (μs)	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- [%] IV Samp Time 2 (μs)	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End: Duration: Der(s) in Re BL P/ Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Aj it sult	HH:mm min pplicable Used		R	emarks	
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Remarks:

a - Too close to edge

b - Too close to prior impact

c - Impact on seam

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EXPORT CONTROLLED DATA.

				<u>Ballist</u>	ic Lim	it Firing D	<u> Data - Nev</u>	<u>v Armor</u>	<u>- Threat</u>	<u>1</u>			
	R	eport N	umber:	11137	-06A	Re	port Date:	05/1	5/09	Tes	t Date:	<u>e e este a Trib</u>	<u>e e travita</u>
		Manufa				ILAND, LLC 09-000463	D	Am	munition:	7.62	mm	147	/FMJ
			est ID:			19-000465		0		14/			
	N	IJ Armo	r Type:	3				Con	ditioning:	VV	ET		
	Т	EST DIME	NSIONS:	Rang	e Length:	50,30	ft.		Velocity 1: Velocity 2:		00	ft. ft.	
						Sa	ample 15						
						Ba	ack Panel						
Panel S	Serial No) :		No	ot Yet De	efined	-	Plate Seri	al No:	Not	Yet De	fined	
		ALIDATIO							D		Duran 4	Dren El	Ave
BI	ock ID:							Drop 1	Drop 2	Drop 3	Urop 4	Drop 5	Avg.
Time	of Day: ု		<u> 2020 -</u>	HH:mm		Depth	of Indent:						0.1.0
[,] Tempe	erature:		<u></u>	F			R	equiremen	ts: All drop	s: 19±3	3 mm , A	Pass:	9 ± 2 11111
					•								
TEST CC	NDITIONS						Firing Se	•					
	Ambi	ent Temp:	<u></u>	F			<u></u>		HH:mm				
	Rel.	Humidity:		%		End:	<u></u>		HH:mm				
						Duration:		<u>. 11</u>	min				
		-	111		I. Nicesal		marka Cal	umn oo Ar	nlionhlo				
Enterr	NJ Armo	or types	ill and	iv Samp	ne num	ber(s) in Re	ANEL 1 - From		phicable				······
Chat	Charge	Time 1	Vel. 1	Time 2	Vel. 2	Vel. Avg.		sult	Used	1			
Shot	Weight	(µs)	(ft/s)	μs)	(ft/s)	(ft/s)	Perf (CP)		(Y/N)		R	emarks	
<u>No.</u> 1	weight	(µs)	0	(ha)	0	(103)			(1/1)				a ta a filia a
2			0		0						3 - 1		
3		1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	0		0								
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5			0		0		1		Salata and	1.1.1.1.1.1		a de Navas	
6			0		0		alahan Nationalahan						e e e e e e e e e e e e e e e e e e e
7			0		0		- States a		and Alexandre				
8		Santa I	0	No. of No.	0				reasona a				
9		1000	0	alahaM.	0							999 - ANN	
10	The set of		0	Same	0			Lage Max.		an she			<u> Alexandri</u>
11			0	Sec. Sec.	0				1			<u></u>	<u> Andreas an A</u>
12	1		0		0			CAL EL			and the	an an Aria. An Ariana	a service and the service of the ser

Remarks:

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a - Too close to edge

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0

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b - Too close to prior impact

0

0

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c - Impact on seam

EXPORT CONTROLLED DATA.

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Ballistic Limit Firing Data - New Armor - Threat 2

	R	eport N	umber:	11137	-06A	Re	port Date:	05/1	5/09	Tes	st Date:	<u>na an</u> an taona	<u>ni, maa s</u>
		Manufa	cturer:		SAFAR	LAND, LLC	D .	Am	munition:				
		1	Test ID:			9-000463			•				
	Ν	IJ Armo			3			Con	ditioning:	W	ET		
	т	EST DIME	NSIONS:	Rang	je Length:	50.30	ft.		Velocity 1:	5.	00	ft.	
					-	,	-		Velocity 2:	5.	00	ft.	
						Sa	ample 16						
							ont Panel						
				N	ot Yet De	fined		Plate Seri		Not	Yet Def	fined	
'anei a	Serial No);			JITELDE	Ineu	-	Fidle Sen	ai NU.		Tel Del		
	ST CLAY V				г			Drop 1	Drop 2	Drop 2	Drop 4	Drop 5	Avg.
BI	lock ID:					Donth	of Indent:			Drop 3	Diop 4	Diop 3	Avg.
Time	of Day:	<u> </u>	<u> </u>	HH:mm F		Depth		equiremen	e: All drop	$a \cdot 10 \pm 3$	mm A	Vorano: 1	0 + 2 mn
lempe	erature:	<u> </u>		.F			ĸ	equiternen	s. All utop:	5. 19 I C	, mini , r	Pass:	
EST CC		S: ent Temp: Humidity:				End:	Firing Se						
	Ambie Rel.	ent Temp: Humidity:		%	le Numb	End: Duration: er(s) in Re	emarks Col	umn as Ar	HH:mm min				
Enter M	Ambie Rel. NIJ Armo	ent Temp: Humidity: or Types	ill and	% IV Samp		End: Duration: e r(s) in Re BL P	emarks Col ANEL 1 - Fror	umn as Ap	HH:mm min plicable				
Enter M	Ambie Rel. NIJ Armo	ent Temp: Humidity: or Types Time 1	Vel. 1	% IV Samp Time 2	Vel. 2	End: Duration: Per(s) in Re BL Pa Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap It Sult	HH:mm mìn pplicable Used			omarke	
Enter M Shot No.	Ambie Rel. NIJ Armo Charge Weight	ent Temp: Humidity: Dr Types Time 1 (μs)	Vel. 1 (ft/s)	% IV Samp	Vel. 2 (ft/s)	End: Duration: e r(s) in Re BL P	emarks Col ANEL 1 - Fror	umn as Ap It Sult	HH:mm min plicable			emarks	
Enter N Shot No. 1	Ambie Rel. NIJ Armo	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s)	% IV Samp Time 2	Vel. 2 (ft/s) 0	End: Duration: Per(s) in Re BL Pa Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap It Sult	HH:mm mìn pplicable Used			emarks	
Enter M Shot No. 1 2	Ambie Rel. NIJ Armo Charge Weight	ent Temp: Humidity: Dr Types Time 1 (μs)	Vel. 1 (ft/s) 0 0	% IV Samp Time 2	Vel. 2 (ft/s) 0 0	End: Duration: Per(s) in Re BL Pa Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap It Sult	HH:mm mìn pplicable Used				
Enter M Shot No. 1 2 3	Ambie Rel. NIJ Armo Charge Weight	ent Temp: Humidity: Dr Types Time 1 (μs)	Vel. 1 (ft/s) 0 0 0	% IV Samp Time 2	Vel. 2 (ft/s) 0 0	End: Duration: Per(s) in Re BL Pa Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap It Sult	HH:mm mìn pplicable Used				
Enter N Shot No. 1 2 3 4	Ambie Rel. NIJ Armo Charge Weight	ent Temp: Humidity: Dr Types Time 1 (μs)	Vel. 1 (ft/s) 0 0 0 0	% IV Samp Time 2	Vel. 2 (ft/s) 0 0 0 0	End: Duration: Per(s) in Re BL Pa Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap It Sult	HH:mm mìn pplicable Used				
Enter N No. 1 2 3 4 5	Ambie Rel. NIJ Armo Charge Weight	ent Temp: Humidity: Dr Types Time 1 (μs)	Vel. 1 (ft/s) 0 0 0 0 0 0 0	% IV Samp Time 2	Vel. 2 (ft/s) 0 0 0 0 0	End: Duration: Per(s) in Re BL Pa Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap It Sult	HH:mm mìn pplicable Used				
Enter N Shot No. 1 2 3 4 5 6	Ambie Rel. NIJ Armo Charge Weight	ent Temp: Humidity: Dr Types Time 1 (μs)	Vel. 1 (ft/s) 0 0 0 0	% IV Samp Time 2	Vel. 2 (ft/s) 0 0 0 0	End: Duration: Per(s) in Re BL Pa Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap It Sult	HH:mm mìn pplicable Used				
Enter N Shot No. 1 2 3 4 5 6 7	Ambie Rel. NIJ Armo Charge Weight	ent Temp: Humidity: Dr Types Time 1 (μs)	Vel. 1 (ft/s) 0 0 0 0 0 0	% IV Samp Time 2	Vel. 2 (ft/s) 0 0 0 0 0 0	End: Duration: Per(s) in Re BL Pa Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap It Sult	HH:mm mìn pplicable Used				
Enter N No. 1 2 3 4 5 6	Ambie Rel. NIJ Armo Charge Weight	ent Temp: Humidity: Dr Types Time 1 (μs)	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0	% IV Samp Time 2	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0	End: Duration: Per(s) in Re BL Pa Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap It Sult	HH:mm mìn pplicable Used				
Enter N No. 1 2 3 4 5 6 7 8	Ambie Rel. NIJ Armo Charge Weight	ent Temp: Humidity: Dr Types Time 1 (μs)	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	% IV Samp Time 2	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End: Duration: Per(s) in Re BL Pa Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap It Sult	HH:mm mìn pplicable Used				
Enter N No. 1 2 3 4 5 6 7 8 9	Ambie Rel. NIJ Armo Charge Weight	ent Temp: Humidity: Dr Types Time 1 (μs)	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	% IV Samp Time 2	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0	End: Duration: Per(s) in Re BL Pa Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap It Sult	HH:mm mìn pplicable Used				
Enter N No. 1 2 3 4 5 6 7 8 9 10	Ambie Rel. NIJ Armo Charge Weight	ent Temp: Humidity: Dr Types Time 1 (μs)	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	% IV Samp Time 2	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End: Duration: Per(s) in Re BL Pa Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap It Sult	HH:mm mìn pplicable Used				
Enter N No. 1 2 3 4 5 6 7 8 9 10 11	Ambie Rel.	ent Temp: Humidity: Dr Types Time 1 (μs)	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	% IV Samp Time 2	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End: Duration: Per(s) in Re BL Pa Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap It Sult	HH:mm mìn pplicable Used				
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a - Too close to edge

b - Too close to prior impact

c - Impact on seam

EXPORT CONTROLLED DATA.

Ballistic Limit Firing Data - New Armor - Threat 2

	R	eport Ni	umber:	11137	7-06A	Rej	port Date:	05/1	5/09	Test Date:
					SAFAR	ILAND, LLC) .	Am	munition:	
		Т	est ID:		SAF	09-000463				
	Ν	IJ Armo		3	3			Con	ditioning:	WET
	т	EST DIME	NSIONS:	Rang	je Length:	50.30	ft.		Velocity 1: Velocity 2:	5.00 ft. 5.00 ft.
						Sa	ample 16			
						Ba	ick Panel			
Panel S	Serial No):		N	ot Yet De	efined		Plate Seri	al No:	Not Yet Defined
PRE-TES	T CLAY V	ALIDATIO	N:							
BI	ock ID:]			Drop 1	Drop 2	Drop 3 Drop 4 Drop 5 Avg.
Time	of Day:			HH:mm		Depth	of Indent:	hata na b		出版新建 热火油 《
Tempe	rature:			F			R	equiremen	ts: All drop	s: 19 ± 3 mm , Average: 19 ± 2 mm
				-						Pass: -
	NDITIONS Ambi	ent Temp:	<u></u>	F	1	Start:	Firing Se	<u>Na Na Na N</u>	HH:mm	
TEST CO	Ambi Rel.	ent Temp:	<u></u>	%	le Numt	End: Duration: b er(s) in Re	marks Col	umn as Ar	HH:mm min	
TEST CO	Ambi Rel.	ent Temp: Humidity: or Types	III and	[%] IV Samp		End: Duration: ber(s) in Re BL P/	marks Col	umn as Ap	HH:mm min oplicable	1
TEST CO	Ambi Rel. NIJ Armo Charge	ent Temp: Humidity: or Types Time 1	III and Vel. 1	V Samp	Vel. 2	End: Duration: De r(s) in Re BL P/ Vel. Avg.	marks Col ANEL 1 - Fron Re	umn as Ap it sult	HH:mm min oplicable Used	
TEST CO Enter N Shot No.	Ambi Rel.	ent Temp: Humidity: or Types	Vel. 1 (ft/s)	[%] IV Samp	Vel. 2 (ft/s)	End: Duration: ber(s) in Re BL P/	marks Col ANEL 1 - Fron Re	umn as Ap	HH:mm min oplicable Used (Y/N)	Remarks
Enter N Shot No. 1	Ambi Rel. NIJ Armo Charge	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s)	V Samp	Vel. 2 (ft/s) 0	End: Duration: De r(s) in Re BL P/ Vel. Avg.	marks Col ANEL 1 - Fron Re	umn as Ap it sult	HH:mm min oplicable Used	Remarks
Enter N Shot No. 1 2	Ambi Rel. NIJ Armo Charge	ent Temp: Humidity: or Types Time 1 (μs)	Vet. 1 (ft/s) 0	V Samp	Vel. 2 (ft/s) 0 0	End: Duration: De r(s) in Re BL P/ Vel. Avg.	marks Col ANEL 1 - Fron Re	umn as Ap It sult	HH:mm min oplicable Used (Y/N)	Remarks
Enter N Shot No. 1 2 3	Ambi Rel. NIJ Armo Charge	ent Temp: Humidity: or Types Time 1 (μs)	Ull and Vet. 1 (ft/s) 0 0	V Samp	Vel. 2 (ft/s) 0 0	End: Duration: De r(s) in Re BL P/ Vel. Avg.	marks Col ANEL 1 - Fron Re	umn as Ap It sult	HH:mm min oplicable Used (Y/N)	Remarks
Enter N Shot No. 1 2 3 4	Ambi Rel. NIJ Armo Charge	ent Temp: Humidity: or Types Time 1 (μs)	Vet. 1 (ft/s) 0 0 0 0	V Samp	Vel. 2 (ft/s) 0 0 0	End: Duration: De r(s) in Re BL P/ Vel. Avg.	marks Col ANEL 1 - Fron Re	umn as Ap It sult	HH:mm min oplicable Used (Y/N)	Remarks
Enter N Shot No. 1 2 3 4 5	Ambi Rel. NIJ Armo Charge	ent Temp: Humidity: or Types Time 1 (μs)	III and Vel. 1 (ft/s) 0 0 0 0 0 0 0 0	V Samp	Vel. 2 (ft/s) 0 0 0 0	End: Duration: De r(s) in Re BL P/ Vel. Avg.	marks Col ANEL 1 - Fron Re	umn as Ap It sult	HH:mm min oplicable Used (Y/N)	Remarks
TEST CO Enter N Shot No. 1 2 3 4 5 6	Ambi Rel. NIJ Armo Charge	ent Temp: Humidity: or Types Time 1 (μs)	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0	V Samp	Vel. 2 (ft/s) 0 0 0 0 0 0	End: Duration: De r(s) in Re BL P/ Vel. Avg.	marks Col ANEL 1 - Fron Re	umn as Ap It sult	HH:mm min oplicable Used (Y/N)	Remarks
TEST CO Enter N Shot No. 1 2 3 4 5 6 7	Ambi Rel. NIJ Armo Charge	ent Temp: Humidity: or Types Time 1 (μs)	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0	V Samp	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0	End: Duration: De r(s) in Re BL P/ Vel. Avg.	marks Col ANEL 1 - Fron Re	umn as Ap It sult	HH:mm min oplicable Used (Y/N)	Remarks
TEST CO Enter N No. 1 2 3 4 5 6 7 8	Ambi Rel. NIJ Armo Charge	ent Temp: Humidity: or Types Time 1 (μs)	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	V Samp	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0	End: Duration: De r(s) in Re BL P/ Vel. Avg.	marks Col ANEL 1 - Fron Re	umn as Ap It sult	HH:mm min oplicable Used (Y/N)	Remarks
TEST CO Enter N No. 1 2 3 4 5 6 7 8 9	Ambi Rel. NIJ Armo Charge	ent Temp: Humidity: or Types Time 1 (μs)	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	V Samp	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0	End: Duration: De r(s) in Re BL P/ Vel. Avg.	marks Col ANEL 1 - Fron Re	umn as Ap It sult	HH:mm min oplicable Used (Y/N)	Remarks
TEST CO Enter N No. 1 2 3 4 5 6 7 8 9 10	Ambi Rel. NIJ Armo Charge	ent Temp: Humidity: or Types Time 1 (μs)	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	V Samp	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End: Duration: De r(s) in Re BL P/ Vel. Avg.	marks Col ANEL 1 - Fron Re	umn as Ap It sult	HH:mm min oplicable Used (Y/N)	Remarks
TEST CO Enter N No. 1 2 3 4 5 6 7 8 9	Ambi Rel. NIJ Armo Charge	ent Temp: Humidity: or Types Time 1 (μs)	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	V Samp	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End: Duration: De r(s) in Re BL P/ Vel. Avg.	marks Col ANEL 1 - Fron Re	umn as Ap It sult	HH:mm min oplicable Used (Y/N)	Remarks
TEST CO Enter N No. 1 2 3 4 5 6 7 8 9 10 11 11 12	Ambi Rel. NIJ Armo Charge	ent Temp: Humidity: or Types Time 1 (μs)	III and Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	V Samp	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End: Duration: De r(s) in Re BL P/ Vel. Avg.	marks Col ANEL 1 - Fron Re	umn as Ap It sult	HH:mm min oplicable Used (Y/N)	Remarks
TEST CO Enter N No. 1 2 3 4 5 6 7 8 9 10 11	Ambi Rel. NIJ Armo Charge	ent Temp: Humidity: or Types Time 1 (μs)	III and Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	V Samp	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End: Duration: De r(s) in Re BL P/ Vel. Avg.	marks Col ANEL 1 - Fron Re	umn as Ap it sult	HH:mm min oplicable Used (Y/N)	Remarks
TEST CO Enter N No. 1 2 3 4 5 6 7 8 9 10 11 11 12	Ambi Rel. NIJ Armo Charge	ent Temp: Humidity: or Types Time 1 (μs)	III and Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	V Samp	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End: Duration: De r(s) in Re BL P/ Vel. Avg.	marks Col ANEL 1 - Fron Re	umn as Ap it sult	HH:mm min oplicable Used (Y/N)	Remarks

Remarks:

a - Too close to edge

b - Too close to prior impact

c - Impact on seam

Page 2 of 2

Ballistic Limit Firing Data - New Armor - Threat 2 Report Number: 11137-06A Report Date: 05/15/09 Test Date: SAFARILAND, LLC. Manufacturer: Ammunition: SAF09-000463 Test ID: 3 WET Conditioning: NIJ Armor Type: 5.00 TEST DIMENSIONS: Range Length: 50.30 ft. Velocity 1: ft. Velocity 2: 5.00 ft. Sample 17 **Front Panel** Not Yet Defined Plate Serial No: Not Yet Defined Panel Serial No: PRE-TEST CLAY VALIDATION: Drop 1 Drop 2 Drop 3 Drop 4 Drop 5 Avg. Block ID: Depth of Indent: Time of Day: HH:mm Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm r Temperature: F Pass: TEST CONDITIONS: Firing Sequence HH:mm Ambient Temp: Start: HH:mm Rel. Humidity: % End: Duration: min Enter NIJ Armor Types III and IV Sample Number(s) in Remarks Column as Applicable **BL PANEL 1 - Front** Vel. 1 Time 2 Vel. 2 Vel. Avg. Result Used Time 1 Shot Charge (ft/s) Perf (CP) Stop (PP) (Y/N) Remarks (µs) (ft/s) (ft/s) No. Weight (µs) 0 0 1 2 0 0 0 0 3 0 0 4 5 0 0 0 6 0 0 7 n 8 0 0 0 0 9 0 10 0

Remarks:

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a - Too close to edge

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b - Too close to prior impact

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c - Impact on seam

EXPORT CONTROLLED DATA.

Page 1 of 2

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NATIONAL INSTITUTE OF JUSTICE **COMPLIANCE TEST REPORT**

				<u>Ballist</u>	tic Lim	it Firing [Data - Nev	w Armor	- Threat	<u>2</u>			
	R	leport N	umber:	11137	′-06A	Re	port Date:	05/1	5/09	Tes	t Date:	<u>anta a</u> ng sanati	
			icturer:			LAND, LLC	D.	Am	munition:			mam.	
			Fest ID:			09-000463		•					
	N	ilJ Armo	r Type:	3				Con	ditioning:	V	ET		
	т	EST DIME	NSIONS:	Rang	e Length:	50.30	_ft.		Velocity 1: Velocity 2:	5, 5,	00 ft 00 ft		
						S	ample 17						
						Ba	ack Panel						
Panel S	Serial No):		N	ot Yet De	efined	-	Plate Seri	al No:	Not	Yet Defin	ed	
PRE-TES	T CLAY V	ALIDATIO	N:										
								Drop 1	Drop 2	Drop 3	Drop 4	Drop 5	Avg.
				HH:mm		Depth	of Indent:					a l'agri	¥
				F				equiremen	ts: All drop	s: 19 ± 3	3 mm , Ave	erage: 19 Pass:	± 2 mm -
TESTOC							Firing Se	anence			,		
LESIG				· C		Start	:	•	HH:mm				
	Anna	ent Temp: Humidity:		 					HH:mm				
	Rei.	Fighting and the second s							min				
Enter N	II.) Arm	or Types	lll and	IV Samp	le Numi	ber(s) in Re	emarks Col	umn as Ai	oplicable				
		<u></u>					ANEL 1 - Fror						
Shot	Charge	Time 1	Vel. 1	Time 2	Vel. 2	Vel. Avg.	Re	suit	Used	1			
No.	Weight	(µs)	(ft/s)	(µs)	(ft/s)	(ft/s)	Perf (CP)	Stop (PP)	(Y/N)		Ren	narks	
1	Weight	(10)	0	(F*)	0	<u>, , , , , , , , , , , , , , , , , , , </u>					a sector and	en e	a an
2			0		0							LAN MARK	Barrier (B. B. B
3			0		0								
4			0		0					N	a de Nacio		and Mile
5			0		0			in and Mill					en de de
6			0		0				la surres				Negative.
7	na ca ca La castra del	an a	0		0	· · ·	L. A. Starten		en al la companya da serie da		and the second	as and b	dana da
8			0		0		C. C. Starter		13.4. ³ 1111		de <u>le an</u> te	N. gate	
9			0		0	, , , , , , , , , , , , , , , , , , ,	a success?				a		
10	in ende	Sec. 1	0		0		State of the			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	a da basi		
11			0		0		a waa la						

Remarks:

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a - Too close to edge

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0 Count:

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b - Too close to prior impact

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c - Impact on seam

CTR Draft Revision 353

EXPORT CONTROLLED DATA.

Page 2 of 2

				Ballis	tic Lim	<u>it Firing D</u>	Data - Nev	w Armor	- Threat	2
	R	eport N	umber:	11137	-06A	Re	port Date:	05/1	5/09	Test Date:
			cturer:		SAFAR	RILAND, LLC 09-000463).	Am	munition:	
			Fest ID:			09-000463		Con	ditioning	WET
	N	IJ Armo	or type:)			Con	anioning.	
	т	EST DIME	INSIONS:	Ranç	le Length:	50.30	ft.		Velocity 1: Velocity 2:	5.00 ft. 5.00 ft.
						Sa	ample 18			
						Fre	ont Panel			
Panel S	Serial No):		N	ot Yet De	efined		Plate Seri	al No:	Not Yet Defined
1 41107 4							-			
PRE-TES	T CLAY V	ALIDATIO	N:							· · · · · · · · · · · · · · · · · · ·
BI	ock ID:	dan dan ba		-				Drop 1	Drop 2	Drop 3 Drop 4 Drop 5 Avg.
Time	of Day:			HH:mm		Depth	of Indent:	in state in the		Stand Acad Stands
/ Tempe	erature:		<u>en Mare</u>	F			R	equiremen	ts: All drop	os: 19 ± 3 mm , Average: 19 ± 2 mm Pass: -
TERTOC							Firing Se	auence		
TEST CC	NDITIONS Ambi	ent Temp:		F		Start	1 mmg 0	•	HH:mm	
	Pol	Humidity:	<u></u>	- %		Fnd		14 A	HH:mm	
	Nei.	fiumany.				Duration:			min	
						Buration				
Enter 1	JIJ Armo	or Types	s III and	IV Same	le Num	ber(s) in Re	marks Col	lumn as Ar	plicable	
							ANEL 1 - From			
Shot	Charge	Time 1	Vel. 1	Time 2	Vel. 2	Vel. Avg.	Re	sult	Used	
No.	Weight	(µs)	(ft/s)	(µs)	(ft/s)	(ft/s)	Perf (CP)	Stop (PP)	(Y/N)	Remarks
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2			0		0					
3		Galeraa	0		0					
4	and the	No. a. A.	0		0	Į	A STATING	1	a de la composition de la comp	
5	We was a		0		0	ļ	<u></u>	Second Second		
6			0		0	ļ	<u>a. sa shiri</u>	No. and		
7	Roder	<u>Nelse</u>	0	<u>1999</u>	0		1.000			
8			0	han a St	0		<u>kan serind</u>			
9	<u>Nex Bir</u>		0	Alexandre -	0	<u> </u>	<u>personante</u>			
10			0	<u>[</u>	0	ļ	New York Area			
41	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	1.1.1	1 0	10 J	0	1	1	1	1	

Remarks:

12

13

14 15

a - Too close to edge

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0

0

0

0 0

0

0

Count:

0

b - Too close to prior impact

0

0

0

c - Impact on seam

EXPORT CONTROLLED DATA.

Page 1 of 2

				Palliet		it Firing C				2	
	R	eport N	umber:	11137			port Date:		5/09	Z	ere seinen til en man
		Manufa	cturer:			ILAND, LLC)	Am	munition:		
		-	fest ID:			09-000463					
	N	IJ Armo	r Type:	3				Con	ditioning:	WET	
	т	EST DIME	NSIONS:	Rang	e Length:	50.30	ft.		Velocity 1: Velocity 2:		
						Sa	ample 18				
							ick Panel				
						00					
Panel S	Serial No) :		No	ot Yet De	efined	-	Plate Seri	al No:	Not Yet Defined	<u> </u>
Bl Time [,] Tempe	ock ID: of Day: rature: NDITIONS	ALIDATIO	1	HH:mm F F		Start: End:	of Indent: R Firing So	equiremen equence	an Secol	Drop 3 Drop 4 Dr s: 19 ± 3 mm, Avera P	
Enter N	llJ Armo	or Types	III and	IV Samp	le Numl	ber(s) in Re	marks Col	lumn as Al	oplicable		
						BL P	ANEL 1 - From	nt		-	
Shot	Charge	Time 1	Vel. 1	Time 2	Vel. 2	Vel. Avg.		sult	Used		
No.	Weight	(µs)	(ft/s)	(µs)	(ft/s)	(ft/s)	Perf (CP)	Stop (PP)	(Y/N)	Rema	rks
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7			0		0						
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9			0		0						
10			0		0						

Remarks:

12

13

14 15

a - Too close to edge

0

0

0

0

0 0

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0 Count:

0

b - Too close to prior impact

0

0

0

c - Impact on seam

EXPORT CONTROLLED DATA.

Ballistic Limit Firing Data - New Armor - Threat 2

	R	eport N	umber:	11137	-06A	Re	port Date:	05/1	5/09	Test Date:
		Manufa	cturer:		SAFARI	LAND, LLC	.	Am	munition:	
			Fest ID:			9-000463	· · · · · ·			
	N	IJ Armo		3				Con	ditioning:	WET
	т	EST DIME	NSIONS:	Rang	e Length: _	50.30	ft.		Velocity 1: Velocity 2:	
						Sa	ample 19			
						Fre	ont Panel			
Panel (Serial No):		No	ot Yet De	fined	-	Plate Seri	al No:	Not Yet Defined
	T CLAY V				_					
B	lock ID:							Drop 1	Drop 2	Drop 3 Drop 4 Drop 5 Avg.
Time	of Day:	second de la competition de la		HH:mm		Depth	of Indent:		la fa sa si sa s	Andream Revent Republics
Tempe	erature:	tha an an ta		٦.			R	equiremen	ts: All drop:	s: 19 ± 3 mm , Average: 19 ± 2 mm Pass: -
TEST CO	NDITIONS	:					Firing Se	quence		
	Ambie Rel.	ent Temp: Humidity:		%	le Numb	End: Duration: er(s) in Re	emarks Col	umn as Aj	HH:mm HH:mm min oplicable	
Enter I	Ambie Rel. NIJ Armo	ent Temp: Humidity: or Types	ill and	% IV Samp		End: Duration: e r(s) in Re BL P	emarks Col ANEL 1 - Fron	umn as Al	HH:mm min oplicable	
Enter I	Ambie Rel. VIJ Armc Charge	ent Temp: Humidity: or Types Time 1	i III and Vel. 1	% IV Samp Time 2	Vel. 2	End: Duration: er(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fron Res	umn as Ap It Sult	HH:mm min oplicable Used	Remarks
Enter I Shot No.	Ambie Rel. VIJ Armc Charge Weight	ent Temp: Humidity: or Types	Vel. 1 (ft/s)	% IV Samp	Vel. 2 (ft/s)	End: Duration: e r(s) in Re BL P	emarks Col ANEL 1 - Fron Res	umn as Al	HH:mm min pplicable Used (Y/N)	Remarks
Enter M Shot No. 1	Ambie Rel. VIJ Armc Charge Weight	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s)	% IV Samp Time 2	Vel. 2 (ft/s) 0	End: Duration: er(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fron Res	umn as Ap It Sult	HH:mm min oplicable Used	
Enter M Shot No. 1 2	Ambie Rel. VIJ Armc Charge Weight	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0	% IV Samp Time 2	Vel. 2 (ft/s) 0 0	End: Duration: er(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fron Res	umn as Ap It Sult	HH:mm min pplicable Used (Y/N)	Remarks
Enter I Shot No. 1 2 3	Ambie Rel.	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0 0	% IV Samp Time 2	Vel. 2 (ft/s) 0 0 0	End: Duration: er(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fron Res	umn as Ap It Sult	HH:mm min pplicable Used (Y/N)	
Shot No. 1 2 3 4	Ambie Rel. VIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0 0 0	% IV Samp Time 2	Vel. 2 (ft/s) 0 0 0 0	End: Duration: er(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fron Res	umn as Ap It Sult	HH:mm min pplicable Used (Y/N)	
Enter N Shot No. 1 2 3 4 5	Ambie Rel.	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0 0 0 0 0 0	% IV Samp Time 2	Vel. 2 (ft/s) 0 0 0 0 0 0	End: Duration: er(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fron Res	umn as Ap It Sult	HH:mm min pplicable Used (Y/N)	
Enter N No. 1 2 3 4 5 6	Ambie Rel. VIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0 0 0 0 0	% IV Samp Time 2	Vel. 2 (ft/s) 0 0 0 0 0 0 0	End: Duration: er(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fron Res	umn as Ap It Sult	HH:mm min pplicable Used (Y/N)	
Enter 1 Shot No. 1 2 3 4 5 6 7	Ambie Rel. VIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0	% IV Samp Time 2	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0	End: Duration: er(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fron Res	umn as Ap It Sult	HH:mm min pplicable Used (Y/N)	
Enter 1 No. 1 2 3 4 5 6 7 8	Ambie Rel. VIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0	% IV Samp Time 2	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0	End: Duration: er(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fron Res	umn as Ap It Sult	HH:mm min pplicable Used (Y/N)	
Enter 1 Shot No. 1 2 3 4 5 6 7	Ambie Rel. VIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	% IV Samp Time 2	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0	End: Duration: er(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fron Res	umn as Ap It Sult	HH:mm min pplicable Used (Y/N)	
Enter 1 No. 1 2 3 4 5 6 7 8	Ambie Rel. VIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	% IV Samp Time 2	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End: Duration: er(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fron Res	umn as Ap It Sult	HH:mm min pplicable Used (Y/N)	
Enter 1 No. 1 2 3 4 5 6 7 8 9	Ambie Rel. VIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	% IV Samp Time 2	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End: Duration: er(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fron Res	umn as Ap It Sult	HH:mm min pplicable Used (Y/N)	
Enter 1 No. 1 2 3 4 5 6 7 8 9 10	Ambie Rel. VIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	% IV Samp Time 2	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End: Duration: er(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fron Res	umn as Ap It Sult	HH:mm min pplicable Used (Y/N)	
Enter 1 Shot No. 1 2 3 4 5 6 7 8 9 10 11	Ambie Rel. VIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	% IV Samp Time 2	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End: Duration: er(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fron Res	umn as Ap It Sult	HH:mm min pplicable Used (Y/N)	
Enter 1 No. 1 2 3 4 5 6 7 8 9 10 11 12	Ambie Rel. VIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	% IV Samp Time 2	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End: Duration: er(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fron Res	umn as Ap It Sult	HH:mm min pplicable Used (Y/N)	

Remarks:

a - Too close to edge

b - Too close to prior impact

c - Impact on seam

Page 1 of 2

Ballistic Limit Firing Data - New Armor - Threat 2

Report Number: 11137-06						Re	port Date:	05/1	5/09	Tes	st Date:	s and the	<u>. 19 19 19 19 19 19 19 19 19 19 19 19 19 </u>
		Manufa	cturer:			LAND, LLC	Э.	Am	munition:				
		٦	fest ID:		SAF0	9-000463							
	N	IJ Armo	r Type:	3			<u> </u>	Con	ditioning:	W	ET		
	т	est dime	NSIONS:	Rang	e Length:	50.30	ft.		Velocity 1: Velocity 2:	5. 5.		ft. ft.	
						S	ample 19						
						Ba	ick Panel						
Panel S	Serial No):		No	ot Yet De	fined	-	Plate Seri	al No:	Not	Yet Def	ined	
	T CLAY V				-						-		
BI	ock ID:								Drop 2	Drop 3	Drop 4	Drop 5	Avg.
Time	of Day:	1997) 1997 - Star Star Star 1997 - Star Star Star Star Star Star Star Star	3.1 . <u></u> .	HH:mm		Depth	of Indent:	an Rhy M	a da ana ang ang ang ang ang ang ang ang an				
[,] Tempe	erature:	<u> </u>		F			R	equiremen	ts: All drop	s: 19±3	3 <i>mm</i> , Av	verage: 1 Pass:	9 ± 2 mm -
1231 00	NDITIONS Ambi			F			Firing Se		HH:mm				
	Ambie Ref.	ent Temp: Humidity:	III and		le Numb	End: Duration: er(s) in Re	emarks Col	umn as Aj	HH:mm min				
	Ambie Rel.	ent Temp: Humidity: or Types	III and	IV Samp		End: Duration: er(s) in Re BL P.	emarks Col ANEL 1 - Fron	umn as Aj	HH:mm min oplicable				
	Ambie Rel. NIJ Armo Charge	ent Temp: Humidity:	Vel. 1	IV Samp	Vel. 2	End: Duration: er(s) in Re <u>BL P</u> Vel. Avg.	emarks Col ANEL 1 - Fron Re:	umn as Aj it sult	HH:mm min oplicable Used				
Enter M	Ambie Rel.	ent Temp: Humidity: or Types	III and	IV Samp	Vel. 2 (ft/s)	End: Duration: er(s) in Re BL P.	emarks Col ANEL 1 - Fron Re:	umn as Aj	HH:mm min oplicable		Re	emarks	
Enter M	Ambie Rel. NIJ Armo Charge	ent Temp: Humidity: or Types Time 1	Vel. 1	IV Samp	Vel. 2	End: Duration: er(s) in Re <u>BL P</u> Vel. Avg.	emarks Col ANEL 1 - Fron Re:	umn as Aj it sult	HH:mm min oplicable Used				
Enter M Shot No.	Ambie Rel. NIJ Armo Charge	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s)	IV Samp	Vel. 2 (ft/s)	End: Duration: er(s) in Re <u>BL P</u> Vel. Avg.	emarks Col ANEL 1 - Fron Re:	umn as Aj it sult	HH:mm min oplicable Used	- <u> </u>		•marks	
Enter M Shot No.	Ambie Rel. NIJ Armo Charge	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0	IV Samp	Vel. 2 (ft/s) 0	End: Duration: er(s) in Re <u>BL P</u> Vel. Avg.	emarks Col ANEL 1 - Fron Re:	umn as Aj it sult	HH:mm min oplicable Used				
Enter M Shot No. 1 2	Ambie Ref. NIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0	IV Samp	Vel. 2 (ft/s) 0 0	End: Duration: er(s) in Re <u>BL P</u> Vel. Avg.	emarks Col ANEL 1 - Fron Re:	umn as Aj it sult	HH:mm min oplicable Used				
Enter N Shot No. 1 2 3	Ambie Ref. NIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0	IV Samp	Vel. 2 (ft/s) 0 0 0	End: Duration: er(s) in Re <u>BL P</u> Vel. Avg.	emarks Col ANEL 1 - Fron Re:	umn as Aj it sult	HH:mm min oplicable Used				
Enter N Shot No. 1 2 3 4	Ambie Rel. NIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0 0 0	IV Samp	Vel. 2 (ft/s) 0 0 0 0	End: Duration: er(s) in Re <u>BL P</u> Vel. Avg.	emarks Col ANEL 1 - Fron Re: Perf (CP)	umn as Aj it sult	HH:mm min oplicable Used				
Enter No. 1 2 3 4 5	Ambie Rel. NIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0 0 0 0	IV Samp	Vel. 2 (ft/s) 0 0 0 0 0	End: Duration: er(s) in Re <u>BL P</u> Vel. Avg.	emarks Col ANEL 1 - Fron Re: Perf (CP)	umn as Aj it sult	HH:mm min oplicable Used				
Enter No. 1 2 3 4 5 6	Ambie Rel. NIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0	IV Samp	Vel. 2 (ft/s) 0 0 0 0 0 0 0	End: Duration: er(s) in Re <u>BL P</u> Vel. Avg.	emarks Col ANEL 1 - Fron Re: Perf (CP)	umn as Aj it sult	HH:mm min oplicable Used				
Enter N Shot No. 1 2 3 4 5 6 7	Ambie Rel. NIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0	IV Samp	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0	End: Duration: er(s) in Re <u>BL P</u> Vel. Avg.	emarks Col ANEL 1 - Fron Re: Perf (CP)	umn as Aj it sult	HH:mm min oplicable Used				
Enter No. 1 2 3 4 5 6 7 8	Ambie Rel. NIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	IV Samp Time 2 (µs)	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End: Duration: er(s) in Re <u>BL P</u> Vel. Avg.	emarks Col ANEL 1 - Fron Re: Perf (CP)	umn as Aj it sult	HH:mm min oplicable Used				
Enter No. 1 2 3 4 5 6 7 8 9	Ambie Rel. NIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	IV Samp	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0	End: Duration: er(s) in Re <u>BL P</u> Vel. Avg.	emarks Col ANEL 1 - Fron Re: Perf (CP)	umn as Aj it sult	HH:mm min oplicable Used				
Enter No. 1 2 3 4 5 6 7 8 9 10	Ambie Rel. NIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	IV Samp	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End: Duration: er(s) in Re <u>BL P</u> Vel. Avg.	emarks Col ANEL 1 - Fron Re: Perf (CP)	umn as Aj it sult	HH:mm min oplicable Used				
Enter No. 1 2 3 4 5 6 7 8 9 10 11	Ambie Rel. NIJ Armo Charge Weight	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	IV Samp	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End: Duration: er(s) in Re <u>BL P</u> Vel. Avg.	emarks Col ANEL 1 - Fron Re: Perf (CP)	umn as Aj it sult	HH:mm min oplicable Used				
Enter No. 1 2 3 4 5 6 7 8 9 10 11 12	Ambia Rel.	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	IV Samp	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End: Duration: er(s) in Re <u>BL P</u> Vel. Avg.	emarks Col ANEL 1 - Fron Re: Perf (CP)	umn as Aj it sult	HH:mm min oplicable Used				
Enter No. 1 2 3 4 5 6 7 8 9 10 11 12 13	Ambia Rel.	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	IV Samp	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End: Duration: er(s) in Re <u>BL P</u> Vel. Avg.	emarks Col ANEL 1 - Fron Re: Perf (CP)	umn as Aj it sult	HH:mm min oplicable Used				

Remarks:

a - Too close to edge

b - Too close to prior impact

c - Impact on seam

Ballistic Limit Firing Data - New Armor - Threat 2 Report Number: 11137-06A Report Date: 05/15/09 Test Date: Manufacturer: SAFARILAND, LLC. Ammunition: SAF09-000463 Test ID: Conditioning: WET NIJ Armor Type: TEST DIMENSIONS: Range Length: 50.30 ft. Velocity 1: 5,00 ft. 5.00 Velocity 2: ft. Sample 20 **Front Panel** Not Yet Defined Plate Serial No: Not Yet Defined Panel Serial No: PRE-TEST CLAY VALIDATION: Drop 1 | Drop 2 | Drop 3 Drop 4 Drop 5 Avg. Block ID: Time of Day: HH:mm Depth of Indent: Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm / Temperature: F Pass: TEST CONDITIONS: Firing Sequence HH:mm Ambient Temp: Start: HH:mm Rel. Humidity: % End: Duration: min Enter NIJ Armor Types III and IV Sample Number(s) in Remarks Column as Applicable **BL PANEL 1 - Front** Vel. 2 Vel. Avg. Result Used Time 1 Vel. 1 Time 2 Shot Charge Perf (CP) Stop (PP) (Y/N) Remarks (ft/s) (ft/s) No. Weight (ft/s) (µs) (µs) 0 0 1 2 0 0 0 0 3 0 0 4 5 0 0 0 6 0 ۵ 0 7 8 0 0 0 0 9 10 0 0 0 0 11

Remarks:

12

13

14

15

a - Too close to edge

0

0

0

b - Too close to prior impact

0

0

c - Impact on seam

0

Page 1 of 2

EXPORT CONTROLLED DATA. This document contains technical information whose export is governed by the U.S. International Traffic in Arms Regulations (ITAR). This information must not be transferred to a foreign person/entity without proper authorization of the U.S. Government.

0

0

0

Count:

0

Ballistic Limit Firing Data - New Armor - Threat 2 Test Date: 11137-06A Report Date: 05/15/09 Report Number: SAFARILAND, LLC. Ammunition: Manufacturer: SAF09-000463 Test ID: 3 Conditioning: WET NIJ Armor Type: TEST DIMENSIONS: Range Length: 50.30 Velocity 1: 5.00 ft. ft. 5.00 ft. Velocity 2: Sample 20 **Back Panel** Not Yet Defined Plate Serial No: Not Yet Defined Panel Serial No:

PRE-TEST CLAY VALIDATION:

Block ID: Time of Day: HH:mm / Temperature: F

Drop 1 Drop 2 Drop 3 Drop 4 Drop 5 Avg. Depth of Indent: Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm Pass:

TEST CONDITIONS:

Ambient Temp: Rel. Humidity: %

Firing Sequence HH:mm Start: HH:mm End: min Duration:

Enter NIJ Armor Types III and IV Sample Number(s) in Remarks Column as Applicable

						BL P	ANEL 1 - Fron	t		
Shot	Charge	Time 1	Vel. 1	Time 2	Vel. 2	Vel. Avg.	Re	sult	Used	
No.	Weight	(µs)	(ft/s)	(µs)	(ft/s)	(ft/s)	Perf (CP)	Stop (PP)	(Y/N)	Remarks
1	1.5	a pare a	0	a Natara	0			a terde Maraa		and the strength of the second
2		1.11	0	a an Alba	0			and the second		
3	1. 1. 1. 1. A.		0	1000	0					
4	9		0	a a ser ^a sa	0					
5	1. 1. 1. 1. N		0		0				An an Arth	
6			0		0			lan an the l	New States	
7	N.C		0	and the second	0				Bana Anto	
8			0		0				ing Name	
9			0		0		a fa an			
10	A. Avier		0		0		Street, and the			
11			0		0					
12			0		0					
13			0	and the	0					
14	La contra	1.1.1.1.1	0		0					
15			0		0					
a	-				Count:	0	0	0	0	

Remarks:

a - Too close to edge

b - Too close to prior impact

c - Impact on seam

CTR Draft Revision 353

EXPORT CONTROLLED DATA.

Page 2 of 2

Penetration and BFS Firing Data - Conditioned Armor - Threat 1

F	Report N	lumber:	11137	7-06A	. 1	Report	Date:	05/15/0)9		Test Date:	an Alberta Barta
٩	-	Test ID:	SAFARI SAF09-0	000463	LC.			T	est Ve	locity:	7.62mm 2780 Dry	147/FMJ ± 30 ft/s
	rest dime	ENSIONS:	Ran	ge Length:	50.30	ft.		Velocity 1: _ Velocity 2: _				
							Samp	le 21				
							Front F					
Pane	Serial I	No:	No	t Yet De	fined			Serial No:		Not	Yet Defined	
PRE-T	EST CLAY		ION:					rop Numbe)r			
	В	lock ID:	i ali se de la composición de		Depth of	1	2	3	4	5	Avg.	
	Time	of Day:		HH:mm	Indent:				sectors.	baada.		
Cla	y Temp	erature:		F		Require	ements:	All drops:	19 ± 3	mm , Ave Pass:	erage: 19 ± 2 mm -	
Ambi	CONDITIO	NS: Start		F %	Start;				D	End:	Firing Sequence	HH:mm HH:mm
			t _{an}				FRONT	PANEL				
Shot		Vel. 1	Time 2	Vel. 2	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Com	ments
No,	(µs)	(ft/s) 0	(µs)	(ft/s) 0	(105)	Angle 0º	(1114)	(1-1/14-0)	NOLE	(mm)		
1		0		0		0°	<u>stat des .</u> Presid					
2		0		0		0°	a a state An state		<u>na seise.</u> Maria			
4		0		0		0°			an an Nganga			
5		0		0		ot Define	ed				Andreas Alberta	
6	ni su te se	0		0		0°						
7		0		0				NASAN I				
8		0		0		See St.						
												_
POST	TEST CLA	Y VALIDA	TION:				D	rop Numb	er]
	E		<u>assana.</u>		Depth of		2	3	4	5	Avg.	
						1	 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.					
Cla	Time ay Temp	e of Day: perature:	<u>na segunda se</u> Lagginda se	HH:mm F	Indent:	Require	ements	: All drops:	19 ± 3	mm,Av Pass:	erage: 19 ± 2 mm	

a - Excessive velocity

b - Insufficient velocity

c - Too close to edge

d - Too close to prior impact

e - Excessive total impacts (test terminated)

f - Excessive area impacts (test terminated)

Penetration and BFS Firing Data - Conditioned Armor - Threat 1

F	Report N	lumber:	11137	7-06A		Report	Date:	05/15/0	09		Test Date:	Na an Alin an Anna an Anna Anna Anna Anna Anna A
٨		Test ID:	SAFARI SAF09-0	00463				T	est Ve	locity:	7.62mm 2780 Dry	147/FMJ ± 30 ft/s
	rest dimi	ENSIONS:	Ran	ge Length:	50.30	ft.		Velocity 1: Velocity 2:				
							Samp	le 21				
							Back F					
Pane	l Serial I	No:	No	t Yet De	fined			Serial No:		No	ot Yet Defined	
PRF-TI	EST CLAY		ON				D	rop Numbe	ər'			1
			<u></u>		Depth of	1	2		4	5	Avg.	1
	Time	of Dav:	<u>ani a na si</u> Reservivisi	HH:mm	Indent:			Maria de la composición de la composicinde la composición de la composición de la composición de la co				1
Cla	ıy Temp	erature:		F			ements:	All drops:	19 ± 3	mm , Av Pass:	erage: 19 ± 2 mm -	
TEST	CONDITIO	NS			4	rmor Su	bmersio	n			Firing Sequence	•
1231 0	JONDINO		End		-					Start:		
Amhi	ent Temp:			F								
Rel.	Humidity:		:		Duration:			min	D	uration:		
							BACK F	PANEL				
Shot	Time 1	Vel. 1	Time 2	Vel. 2	Vel. Avg.			Perforate		BFS	• • • • • • • • • • • • • • • • • • •	
No.	(µs)	(ft/s)	(µs)	(ft/s)	(ft/s)	Angle	(Y/N)	(Y=1/N=0)	Note	(mm)	Com	ments
1	<u> </u>	0		0		0°			a gen A		and a strand	NATES AND AND A
2		0		0		0°	1000	A REPORT				
3		0	1. N. 1	0		0°	Alexandra		an an ta			
4		0		0		0°	9 s					
5		0		0		ot Define	d	a secondaria. Referencea			Ass. on Million	A Harris and A.
6		0	a de la composition de la comp	0		0°					Alexandra Shara	en Mannen et M
7		0	an an Al	0				na sa sa Ma		N.N.34		a a shinka a shin
8		0		0	1			line and				
												_
POST	TEST CLA	AY VALIDA	TION:				D	rop Numb	er			
		Block ID:			Depth of	1	2		4	5	Avg.	
	Time	of Day:		HH:mm	Indent:			A. A. 201	<u>,</u> .	2212		
Cla			<u>.</u>			Require	ements	: All drops:	19 ± 3	mm, Av Pass:	verage: 19 ± 2 mm -	
NOTE	S:											
а-	Excessive	e velocity		d -	- Too close to	prior imp	act			g -	Impact on seam	
					Europalus In							

b - Insufficient velocity

c - Too close to edge

e - Excessive total impacts (test terminated)

f - Excessive area impacts (test terminated)

Penetration and BFS Firing Data - Conditioned Armor - Threat 1

F	Report N	lumber:	1113	7-06A	. 1	Report	Date:	05/15/	09		Test Date:	
			SAFARI		LC.				Ammur	nition:	7.62mm	147/FMJ
		Test ID:	SAF09-0	000463							2780	± 30 ft/s
٢	NJ Armo	or Type:	:	3				С	onditio	oning: _	Dry	
	TEST DIMI	ENSIONS:	Ran	ge Length:	50.30	ft.		Velocity 1:	······			
							Samp	le 22				
							Front F	Panel				
Pane	I Serial I	No:	Nc	ot Yet De	fined		Plate S	Serial No:		No	ot Yet Defined	-
PRE-T	EST CLAY	VALIDAT	ION:				D	rop Numbe	er			1
	в	lock ID:	<u>Charles</u>		Depth of	1	2	3	4	5	Avg.	
	Time	of Day:		HH:mm						NE SE		
Cla	ay Temp	erature:		F		Require	ements:	All drops:	19 ± 3	mm , Av Pass:	verage: 19 ± 2 mm -	
TEST	CONDITIO	NS:			م	rmor Su	bmersio	ก			Firing Sequence	9
		Start	End		Start:		1.55	HH:mm		Start:	and the state of the	HH:mm
Ambi	ent Temp:			F							a se desta	
Rel.	Humidity:	1.1		%	Duration:			min	D			min
			and the second				FRONT	PANEL				
Shot	Time 1	Vel. 1	Time 2	Vel. 2	Vel, Avg.		Fair	Perforate		BFS		
No.	(µs)	(ft/s)	(µs)	(ft/s)	(ft/s)	Angle	(Y/N)	(Y=1/N=0)	Note	(mm)	Com	ments
1		0		0		0°				an thaile	and a second second	New Yorker Charles
2	a series de la	0		0		0°	1. A. A. A. A.			an a stati		
3		0		0		0°	tati sa	an an an				
4		0		0		0°		ta da serie br>Esta da serie				
5		0		0		ot Define	be		statts.			
6		0		0		0°					and the second	
7		0		0								<u>alah serendiki s</u>
8		0		0		upeta 47						
POST	-TEST CLA	AY VALIDA	TION:				D	rop Numb	er			1
			<u></u>		Depth of	1			4	5	Avg.	
	Time	of Day:		HH:mm	Indent:			a that A.		S. 22		
Cl	ay Temp	erature	<u></u>	F		Require	ements	: All drops:	19 ± 3	mm, Av Pass:	verage: 19 ± 2 mm -	
NOTE	S:										· · · · · · · · · · · · · · · · · · ·	-
а-	Excessive	e velocity		d-	 Too close to 	prior imp	act			g -	Impact on seam	

a - Excessive velocity

b - Insufficient velocity

c - Too close to edge

e - Excessive total impacts (test terminated)

f - Excessive area impacts (test terminated)

Penetration and BFS Firing Data - Conditioned Armor - Threat 1

F	Report N	lumber:	11137	7-06A		Report	Date:	05/15/	09		Test Date:	
		acturer: Test ID:			LC.			и Т	Ammur Test Vel	nition: _ locity: _	7.62mm 2780	147/FMJ ± 30 ft/s
N	llJ Armo	or Type:	3	3							Dry	
-	TEST DIM	ENSIONS:	Ran	ge Length:	50.30	ft.		Velocity 1: Velocity 2:				
Pane	I Serial I	No:	No	ot Yet De	fined		Samp Back F Plate S			No	ot Yet Defined	-
PRF-T	EST CLAY	VALIDAT	ION:				D	rop Numb	er		· · · · · · · · · · · · · · · · · · ·	1
	В	lock ID: of Day:		HH:mm	Depth of Indent:		2		4	5	Avg.	
Cla	y Temp	erature:		F							verage: 19 ± 2 mm -]
Ambi		NS: Start		F %	Start:		bmersio	HH:mm	D	End:	Firing Sequence	_HH:mm
							BACK F	PANEL				
Shot No.	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Com	ments
1		0		0		0°	19.33	ing and the second s	la se		Na Loopan Dibe	agenti Assa Alipera ang
2		0		0		0°	lan en trave		Sec. 1	1948		
3		0		0		0°	a ana		an an the second se			
4		0	a sa	0		0°	Sec. Sec. S.					
5		0		0		ot Define	be				فتحتري والمراجع والمتأور	
6		0		0		0°						na shikina a
7	Astro-	0		0						$\{1, 1, 5, 5\}$		
8		0		0				liya ya ma ya tu		ha ya yi		i an sa kabata
DOPT	TESTON	AY VALIDA			r			rop Numb	er			ר
P031-	E	Block ID:	Alta da la		Depth of Indent:			3	4	5	Avg.	-
Cla	ay Temp	e of Day: perature:		F			ements	: All drops:		mm, Av Pass:	verage: 19 ± 2 mm -	
NOTE a -	S: Excessive	e velocity		d	- Too close to	prior imp	act			g -	Impact on seam	-

b - Insufficient velocity

c - Too close to edge

e - Excessive total impacts (test terminated)

f - Excessive area impacts (test terminated)

Penetration and BFS Firing Data - Conditioned Armor - Threat 2

PRE-TEST CLAY VALIDATION: Block ID: Time of Day: HH:mm Time of Day: HH:mm Clay Temperature: F Armor Submersion Firing Sequence TEST CONDITIONS: Armor Submersion Firing Sequence Start HH:mm Start: HH:mm Armor Submersion Firing Sequence Start End: HH:mm Armor Submersion Firing Sequence Start HH:mm Start: HH:mm Armor Submersion Firing Sequence Start HH:mm Start: HH:mm Mindent: HI:mm Start: HH:mm Rel Ouration: min Duration: FRONT PANEL Start Time 1 Vel. 2	<u></u>	0 ± 30 ft/s		nition										
NIJ Armor Type: 3 Conditioning: Dry TEST DIMENSIONS: Range Length: 50.30 ft. Velocity 1: 5.00 ft. Velocity 2: 5.00 ft. Velocity 2: 5.00 ft. Velocity 2: 5.00 ft. Velocity 2: 5.00 ft. Sample 23 Front Panel Plate Serial No: Not Yet Defined Plate Serial No: Not Yet Defined PRE-TEST CLAY VALIDATION: Block ID: Depth of 1 2 3 4 5 Avg. Time of Day: HH:mm HH:mm Equirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm Pass: - TEST CONDITIONS: Armor Submersion Firing Sequence Start: HH:mm HH:mm Ambient Temp: F End: HH:mm End: HH:mm HH:mm Rel. Humidity: % Duration: min Duration: min No. (µs) (rt/s) Yel. 2 Yel. Avg. Fair Perforate BFS No. (µs) (rt/s)		Dry		ocity:	Ammur est Vel	ہ T			LC.					
Velocity 2: 5.00 ft. Sample 23 Front Panel Panel Serial No: Not Yet Defined Plate Serial No: Not Yet Defined PRE-TEST CLAY VALIDATION: Block ID:				oning:	onditic	С				}	3	or Type:	IJ Armo	N
Panel Serial No: Not Yet Defined Front Panel Plate Serial No: Not Yet Defined PRE-TEST CLAY VALIDATION: Block ID: Time of Day: Clay Temperature: Image: Clay HH:mm F Image: Clay Clay Clay Clay Clay Clay Clay Clay								ft.	50.30	ge Length:	Ran	ENSIONS:	EST DIME	1
Panel Serial No: Not Yet Defined Plate Serial No: Not Yet Defined PRE-TEST CLAY VALIDATION: Block ID: Time of Day:						e 23	Sampl							
PRE-TEST CLAY VALIDATION: Block ID: Time of Day: HH:mm Time of Day: HH:mm Clay Temperature: F Armor Submersion Firing Sequence TEST CONDITIONS: Armor Submersion Firing Sequence Start HH:mm Start: HH:mm Armor Submersion Firing Sequence Start End: HH:mm Armor Submersion Firing Sequence Start HH:mm Start: HH:mm Armor Submersion Firing Sequence Start HH:mm Start: HH:mm Mindent: HI:mm Start: HH:mm Rel Ouration: min Duration: FRONT PANEL Start Time 1 Vel. 2							-							
Block ID: Time of Day: HH:mm Depth of Indent: 1 2 3 4 5 Avg. Clay Temperature: F Indent: Indent: <td></td> <td>Defined</td> <td>ot Yet</td> <td>No</td> <td>-</td> <td>erial No:</td> <td>Plate S</td> <td></td> <td>fined</td> <td>t Yet De</td> <td>No</td> <td>No:</td> <td>Serial I</td> <td>Panel</td>		Defined	ot Yet	No	-	erial No:	Plate S		fined	t Yet De	No	No:	Serial I	Panel
Block ID:					ý.	op Numbe	Di	*	T		ONI			
Time of Day: HH:mm Clay Temperature: F Indent: Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm TEST CONDITIONS: Armor Submersion Firing Sequence Start End Start: HH:mm Firing Sequence TEST CONDITIONS: F End: HH:mm Start: HH:mm Armor Submersion Firing Sequence TEST CONDITIONS: F End: HH:mm Start: HH:mm Armor Submersion Firing Sequence MITHEM Start: HH:mm MITHEM Start: HH:mm Rel, Humidity: % Duration: min Duration: MITHEM FRONT PANEL Start Time 1 Vel. 2 Vel. Avg. Fair Perforate BFS No. (µs)		Ava.		5				1	Depth of					PKC-II
Clay Temperature:F Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm Pass: TEST CONDITIONS: Firing Sequence Start End Start: HH:mm Armor Submersion Firing Sequence Start End Start: HH:mm Ambient Temp: F End: HH:mm End: HH:mm Rel. Humidity: % Duration: min Duration: Time 1 Vel. 1 Time 2 Vel. 2 Vel. Avg. Fair Perforate BFS No. (µs) (ft/s) Angle (Y/N) Y=1/N=0) Note MH:mm MH:mm End: HH:mm MH:mm Rel Humidity: ME: End: ME:		<u></u>					<u> </u>			HH.mm		of Dav:	Time	
Start End Start: HH:mm Start: HH:mm Ambient Temp: F End: HH:mm End: HH:mm Rel. Humidity: % Duration: min Duration: min Vel. 1 Time 1 Vel. 1 Time 2 Vel. 2 Vel. Avg. Fair Perforate BFS No. (μs) (ft/s) (ft/s) (ft/s) Angle (Y/N) (Y=1/N=0) Note (mm) Comments						All drops:	ments:	Require	ŀ	F		erature:	y Temp	Cla
Start End Start: HH:mm Start: HH:mm Ambient Temp: F End: HH:mm End: HH:mm Rel. Humidity: % Duration: min Duration: min Vel. 1 Time 1 Vel. 1 Time 2 Vel. 2 Vel. Avg. Fair Perforate BFS No. (μs) (ft/s) (ft/s) (ft/s) Angle (Y/N) (Y=1/N=0) Note (mm) Comments		ring Sequence	1			n	bmersio	rmor Su	A			NS:		TEST C
Ambient Temp: F End: HH:mm End: HH:mm Rel. Humidity: % Duration: min Duration: min Stot Time 1 Vel. 1 Time 2 Vel. 2 Vel. Avg. Fair Perforate BFS No. (μs) (ft/s) (ft/s) (ft/s) Angle (Y/N) (Y=1/N=0) Note (mm) Comments		HH:mm		Start:		HH:mm			Start:		End			
Rel. Humidity: % Duration: min Duration: min state with the		HH:mm	la , la an	End:		HH:mm			End:	F			ent Temp:	Ambie
Shot Time 1 Vel. 1 Time 2 Vel. 2 Vel. Avg. Fair Perforate BFS No. (μs) (ft/s) (ft/s) (ft/s) Angle (Y/N) (Y=1/N=0) Note (mm) Comments		min	<u></u>	uration:	D				Duration:	%		4	Humidity:	Rel.
Shot Time 1 Vel. 1 Time 2 Vel. 2 Vel. Avg. Fair Perforate BFS No. (μs) (ft/s) (ft/s) (ft/s) Angle (Y/N) (Y=1/N=0) Note (mm) Comments						PANEL	FRONT							
No. (μs) (ft/s) (μs) (ft/s) (ft/s) Angle (Y/N) (Y=1/N=0) Note (mm) Comments		······································		BFS		· · · · · · · · · · · · · · · · · · ·			Vel. Avg.	Vel. 2	Time 2	Vel. 1	Time 1	Shot
		Comments		(mm)	Note	(Y=1/N=0)	(Y/N)	Angle	· · · ·					
	a da					s fars an		0°		0		0		1
2 0 0 0 00							day se	0°		0		0		2
3 0 0 00 00			the second				1.751.5	0°		0	in an	0		3
4 0 0 0 0 ⁰			Sec. Sec.					0°		0		0		4
5 0 0 ot Defined						e ve he veh	d.	ot Define		0		0		5
6 0 0 0°		<u> An Constant an Anna a</u>						0°		0	a track	0	14. A.	6
7 0 0 0			N	11.11.12			Casa			0		0		7
8 0 0 0			1.5.112.1		·		National Art			0		0		8
POST-TEST CLAY VALIDATION: Drop Number					er	ron Numb	D							DOST
Block ID: Depth of 1 2 3 4 5 Avg.		Avg.	1	5	4	3	2	1	Depth of					r U31-
Time of Day:			1							HH:mm	<u></u>	of Dav:	Time	
Clay Temperature: F Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm Pass: -		: 19 ± 2 mm -			19 ± 3									Cla
NOTES: a - Excessive velocity d - Too close to prior impact g - Impact on seam													s:	NOTE

d - Too close to prior impact

e - Excessive total impacts (test terminated)

f - Excessive area impacts (test terminated)

CTR Draft Revision 353

EXPORT CONTROLLED DATA.

b - Insufficient velocity c - Too close to edge

Page 1 of 2

Penetration and BFS Firing Data - Conditioned Armor - Threat 2

F	Report N	umber:	11137	7-06A	. 1	Report	Date:	05/15/0	09		Test Date:	<u>Restances</u>
٩	-	Test ID:	SAFARI SAF09-0	00463	LC.			Т	est Vel	nition: locity: oning:	0	0 ± 30 ft/s
	TEST DIME	ENSIONS:	Ran	ge Length:	50.30	ft.		Velocity 1: Velocity 2:				
							Sampl	e 23				
							Back F	Panel				
Pane	I Serial I	No:	No	t Yet De	fined			Serial No:		No	ot Yet Defined	-
PRE-T	EST CLAY	VALIDAT	ION:				D	rop Numbe	ər]
	в	lock ID:			Depth of	1	2	3	4	5	Avg.	
				HH:mm	Indent:			the second				
Cla	ay Temp	erature:		F		Require	ments:	All drops:	19±3	mm , Av Pass:	verage: 19 ± 2 mm -	
TEST	CONDITIO	NS:			۵	rmor Su	bmersio	n			Firing Sequence	Ð
			End		Start:			HH:mm		Start:		HH:mm
Ambi	ent Temp:			F	End:			HH:mm				
	Humidity:			%	Duration:			min	D	uration:		 min
,												
							BACK F	PANEL				
Shot	Time 1	Vel. 1	Time 2	Vel. 2	Vel. Avg.		Fair	Perforate		BFS		
No.	(µs)	(ft/s)	(µs)	(ft/s)	(ft/s)	Angle	(Y/N)	(Y=1/N=0)	Note	(mm)	Com	ments
1	HANNER -	0	Marke Street	0	ļ	0°				NG 12	an an Arriente an an Arriente a Arriente an Arriente an Arr	
2		0		0		0°		Maria and		1897 N.		
3	No ana	0		0		0°						
4		0		0		0°						
5	an sairt	0		0		ot Define	d.,					and the second states
6	Sec. A.	0		0		0°						
7	No. 194	0	dian di	0			Rin u	, ang bitu '	1.1.1			
8		0		0					1			
POST	-TEST CLA		TION:			[D	rop Numb	er			1
			<u>na a</u> na an		Depth of	1			4	5	Avg.	
	Time	of Day:		HH:mm	Indent:	a popla		a da a ba	an a			1
CI	ay Temp	erature	<u>Nana an</u>	F		Require	ements	: All drops:	19 ± 3	mm, A Pass:	verage: 19 ± 2 mm -	
NOTE	S:											_
	Excessive	velocity		d-	- Too close to	prior imp	act			g -	Impact on seam	

b - Insufficient velocity

c - Too close to edge

d - Too close to prior impact

e - Excessive total impacts (test terminated)

f - Excessive area impacts (test terminated)

Penetration and BFS Firing Data - Conditioned Armor - Threat 2

F	leport N	umber:	11137	7-06A	. 1	Report	Date:	05/15/0	09		Test Date:	Nan Brackhan
		-	SAFARI		LC.					nition: _ locity: _	0	0 ± 30 ft/s
N			3							oning:		
T	EST DIME	INSIONS:	Ran	ge Length:	50.30	ît.		Velocity 1: Velocity 2:				
							Sampl	le 24				
							Front F	Panel				
Panel	Serial N	lo:	No	t Yet De	fined		Plate S	Serial No:	-	No	ot Yet Defined	
PRE-TI	ST CLAY		ON:				D	rop Numbe	ər	T		l
- 1.6-11			<u> </u>		Depth of	1	2		4	5	Avg.	
	Time	of Dav		HH:mm	Indent:		in a contraction of the	in sector		1444		
Cla	y Tempe	erature:		F	Ĩ	Require	ements:	All drops:		mm , Av Pass:	verage: 19 ± 2 mm -	
TEST	CONDITIO	\S :			A	rmor Su	bmersio	n			Firing Sequence	
		Start	End				an a			Start:	<u>a se a se </u>	HH:mm
Ambie	ent Temp:			F	End:			HH:mm		End:		HH:mm
	Humidity:			%	Duration:			min	D	uration:		min
							FRONT	PANEL				
Shot	Time 1	Vel. 1	Time 2	Vel. 2	Vel. Avg.		Fair	Perforate		BFS	· · · · · · · · · · · · · · · · · · ·	
No.	(µs)	(ft/s)	(µs)	(ft/s)	(ft/s)	Angle	(Y/N)	(Y=1/N=0)	Note	(mm)	Com	ments
1	(49)	0	<u> </u>	0		0°			Alerte			and the line of the
2		0		0		0°						e de la California de la C
3		0		0		0°	an a					
4		0		0		0°						
5		0		0		ot Define	ed		N. 1. 1. 1. 1.			
6		0		0		0°			a ve tra		aa a Adda a sa A	Alexander States en
7		0		0					a an t		a an an Albana an An	
8	a gala	0		0								
								non Mumb				1
POST-	TEST CLA				Depth of			rop Numb 3	er 4	5	Avg.	1
	B Tirra	lock ID:	<u>editoria.</u> 11.	llllimm	Indent:		-				<u></u>	1
~	Time	oratura:					emente	All drops:	10 + 2	mm A	verage: 19 ± 2 mm	1
Cli	ay Temp	erature.		`F		riequin	Smerne	. All drops.	19 I J	Pass:		

e - Excessive total impacts (test terminated) f - Excessive area impacts (test terminated)

CTR Draft Revision 353

EXPORT CONTROLLED DATA.

b - Insufficient velocity c - Too close to edge

Penetration and BFS Firing Data - Conditioned Armor - Threat 2

F	leport N	umber:	11137	7-06A	. !	Report	Date:	05/15/	09		Test Date:	
N	٦	Test ID:	SAFARI SAF09-0	00463	LC.	<u>م </u>		т	est Ve	nition: _ locity: _ oning: _	0	0 ± 30 ft/s
٦	EST DIME	ENSIONS:	Ran	ge Length:	50,30	ft.		Velocity 1: Velocity 2:				
							Samp					
Panel	Serial N	No:	No	t Yet De	fined		Back F Plate S	Panel Serial No:		No	t Yet Defined	
DDE_TI							D	rop Numb	er			l
FIXE-11	PRE-TEST CLAY VALIDATION: Block ID:					1	2		4	5	Avg.	
	Time	of Day:		HH:mm	Indent:			<u>S</u>		212,35		
Cla	y Tempe	erature:		F		Require	ements:	All drops:	19±3		erage: 19 ± 2 mm -	
TEST	ONDITIO	NS			A	rmor Su	Ibmersio	n			Firing Sequence	1
12010		Start	End							Start:		
Ambie	ent Temp:			F	End:							
Rel.	Humidity:	i		%	Duration:	N., 11		min	D	uration:		min
							BACK F	PANEL				
Shot No,	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Vel. Avg. (ft/s)	Angle	Fair (Y/N)	Perforate (Y=1/N=0)	Note	BFS (mm)	Com	ments
1		0		0		0°	202.0					an ter haard
2		0	an a	0		0°						
3		0		0		0°	1. 1. 1.					<u>, ka </u>
4		0		0		0°						<u>na al este de la Carta es</u> Se se
5	- <u>-</u>	0		0		ot Define	ed		1111			
6	<u>, in the second s</u>	0		0		0°	<u> 1. 4045</u>			╏──┤		<u>na ang bina Pangana na s</u> a
7		0		0			<u></u>		<u></u>		<u>. A de la sue a sue de Ca</u>	<u>Real and an Alberta an</u> Dealaiste an Alberta
8		0		0			1999 - N.S.		daya ta a		an an an Anna Anna Anna Anna Anna Anna	
DOCT	TEST CLA		TION				Б	rop Numb	er			1
ru31.					Depth of	1		3	4	5	Avg.	1
	Time	of Day:		HH:mm	Indent:		1.11					
Cla	ay Temp	erature:		F		Requir	ements	: All drops:	19±3	mm, Av Pass:	verage: 19 ± 2 mm -]
												-
NOTE	S:										Impact on seam	

b - Insufficient velocity

c - Too close to edge

e - Excessive total impacts (test terminated)

f - Excessive area impacts (test terminated)

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Ballistic Limit Firing Data - Conditioned Armor - Threat 1

	R	Report N	umber:	11137	7-06A	Re	port Date:	05/1	5/09	Test Date:	<u>a ang ing pang pang pang</u>
			cturer:			ILAND, LLC	C	Am	munition:	7.62mm	147/FMJ
			Fest ID:			09-000463					
	N	IIJ Armo	r Type:	3	3			Con	ditioning:	Dry	
	т	EST DIME	NSIONS:	Ranç	je Length:	50.30	_ft.		Velocity 1: Velocity 2:		ft. ft.
						Sa	ample 25				
						Fre	ont Panel				
Panel S	Serial No	D:		N	ot Yet De	efined	-	Plate Seri	ai No:	Not Yet Def	ined
		ALIDATIO			,						
BI	ock ID:									Drop 3 Drop 4	Drop 5 Avg.
Time	of Day:		n na Stan an Air	HH:mm		Depth	of Indent:			ulter Baard	
[,] Tempe	erature:			.F			R	equiremen	ts: All drop	s: 19 ± 3 mm , Av	verage: 19 ± 2 mi Pass: -
					L						
TEST CO	NDITIONS	S:					Firing Se	equence			
	Ambi	ent Temp:		F		Start:			HH:mm		
	Rel.	ent Temp: Humidity:		%					HH:mm		
				-					min		
Entor	JI L Arma		hne III e	IV Same	do Numt	oer(s) in Re	emarks Col	umn as Ar	onlicable		
	NJ AIII	or types	in and	IV Oanip	ne manne		ANEL 1 - From		phouble		
Shot	Charge	Time 1	Vel. 1	Time 2	Vel. 2	Vel. Avg.		sult	Used		
No.	Weight	(µs)	(ft/s)	(µs)	(ft/s)	(ft/s)	Perf (CP)	Stop (PP)	(Y/N)	Re	emarks
1			0		0		NER LEAD			and a second second	
2			0		0					New All and All	al de la case de la cas
3		1.1.1	0	1	0				esen anti-	Al Alas - Assa	
4			0		0						
5			0		0		S. S. S. Dali		an sha na tala.		
6			0		0				a , so an Ar		
7	1. 194.1%		0	1.119.14	0		Second State	staat is taa	Second Sec.		an internet second
8	and the second		0	No.	0				da sa bashiri	No. No. and No.	
9			0		0			assisted.	erie di Ase Talake di Aserta		
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11	1		0		0				N. C. S.		
	1.						1	1	1	1	
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12 13			0		0			an a			<u>aan di Kanaan</u> waxa ku
12		nin fragi Nin fragi Nin fragi									
12 13			0		0						

Remarks:

a - Too close to edge

b - Too close to prior impact

c - Impact on seam

Ballistic Limit Firing Data - Conditioned Armor - Threat 1 Report Number: 11137-06A Report Date: 05/15/09 Test Date: SAFARILAND, LLC. 7.62mm 147/FMJ Manufacturer: Ammunition: SAF09-000463 Test ID: 3 Conditioning: Dry NIJ Armor Type: TEST DIMENSIONS: Range Length: 50.30 ft. Velocity 1: 5.00 ft. 5.00 Velocity 2: ft. Sample 25 **Back Panel** Not Yet Defined Plate Serial No: Not Yet Defined Panel Serial No: PRE-TEST CLAY VALIDATION: Drop 1 Drop 2 Drop 3 Drop 4 Drop 5 Block ID: Avg. Time of Day: HH:mm Depth of Indent: Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm / Temperature: F Pass: TEST CONDITIONS: **Firing Sequence** Start: HH:mm Ambient Temp: Rel. Humidity: End: HH:mm % Duration: min Enter NIJ Armor Types III and IV Sample Number(s) in Remarks Column as Applicable BL PANEL 1 - Front Vel. 1 Time 2 Vel. 2 Vel. Avg. Result Used Time 1 Shot Charge No. Weight (µs) (ft/s) (µs) (ft/s) (ft/s) Perf (CP) Stop (PP) (Y/N) Remarks 0 0 1 0 0 2 0 Ø 3 0 0 4 5 0 0 6 0 0 0 0 7 8 0 0 9 0 0 0 0 10 11 0 0 0 0 12 0 13 0 0 O 14 15 0 0 Count: 0 0 0 0

Remarks:

a - Too close to edge

b - Too close to prior impact

c - Impact on seam

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Ballistic Limit Firing Data - Conditioned Armor - Threat 2 Test Date: Report Number: 11137-06A Report Date: 05/15/09 0 0 SAFARILAND, LLC. Ammunition: Manufacturer: SAF09-000463 Test ID: 3 Conditioning: Dry____ NIJ Armor Type: 5.00 Velocity 1: TEST DIMENSIONS: Range Length: 50.30 ft. ft. Velocity 2: 5.00 ft. Sample 26 Front Panel Not Yet Defined Plate Serial No: Not Yet Defined Panel Serial No: PRE-TEST CLAY VALIDATION: Drop 1 Drop 2 Drop 3 Drop 4 Drop 5 Avg. Block ID: HH:mm Depth of Indent: Time of Day: Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm F / Temperature: Pass: TEST CONDITIONS: Firing Sequence HH.mm Start: Ambient Temp: HH:mm Rel. Humidity: % End: Duration: min Enter NIJ Armor Types III and IV Sample Number(s) in Remarks Column as Applicable BL PANEL 1 - Front Vel. Avg. Time 1 Vel. 1 Time 2 Vel. 2 Result Used Charge Shot (ft/s) (ft/s) Perf (CP) Stop (PP) (Y/N) Remarks Weight (ft/s) (µs) No. (µs) 0 0 1 2 0 0 0 0 3 0 0 4 5 0 0 0 0 6 0 0 7 0 8 0 9 0 0 0 0 10

Remarks:

11

12 13

14

15

a - Too close to edge

0

0

0

0

0

0

0

0

0

Count:

0

b - Too close to prior impact

n

0

0

c - Impact on seam

EXPORT CONTROLLED DATA.

Ballistic Limit Firing Data - Conditioned Armor - Threat 2 Report Date: 05/15/09 Test Date: Report Number: 11137-06A Manufacturer: Ammunition: 0 0 SAFARILAND, LLC. SAF09-000463 Test ID: 3 Conditioning: Dry NIJ Armor Type: Velocity 1: 5.00 ft, TEST DIMENSIONS: Range Length: 50.30 ft. Velocity 2: 5.00 ft. Sample 26 **Back Panel** Plate Serial No: Not Yet Defined Not Yet Defined Panel Serial No: PRE-TEST CLAY VALIDATION: Drop 1 Drop 2 Drop 3 Drop 4 Drop 5 Avg. Block ID: Time of Day: HH:mm Depth of Indent: Requirements: All drops: 19 ± 3 mm, Average: 19 ± 2 mm / Temperature: F Pass: **Firing Sequence** TEST CONDITIONS: Ambient Temp: Start: HH:mm End: HH:mm Rel. Humidity: % Duration: min Enter NIJ Armor Types III and IV Sample Number(s) in Remarks Column as Applicable BL PANEL 1 - Front Vel. 2 Used Vel. Avg. Result Vel. 1 Time 2 Shot Charge Time 1 Weight (ft/s) (µs) (ft/s) (ft/s) Perf (CP) Stop (PP) (Y/N) Remarks No. (µs) 0 1 0 0 2 0 0 0 3 0 0 4 0 5 0 6 0 0 0 0 7 0 0 8 0 0 9 0 10 0

Remarks:

11

12

13 14

15

a - Too close to edge

0

0

0

0

0

0

0

0

0

0

Count:

0

b - Too close to prior impact

0

0

0

c - Impact on seam

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EXPORT CONTROLLED DATA.

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Penetration and BFS Summary Data Report Date: 05/15/09 Report Number: 11137-06A Test ID: SAF09-000463 SAFARILAND, LLC. Model Designation: 2120-5 NIJ Armor Type: 3 Manufacturer: Threat 1 - New Armor Conditioning: Wet 7.62mm 147/FMJ Test Velocity: 2780 ± 30 ft/s Ammunition: Size: 10 x 12 Size: 10 x 12 Sample Sample 2 Back Panel Front Panel Back Panel Front Panel Perf BFS BFS Avg. Vel. Shot Avg. Vel. Perf BES Avg. Vel. Perf BFS Ava. Vel. Perf (ft/sec) (Y=1/N=0) (mm) Note (ft/sec) (Y=1/N=0) (mm) Note (ft/sec) (Y=1/N=0) (mm) Note (ft/sec) (Y=1/N=0) (mm) Note Number 2764.7 0 38.0 2749.5 35.0 0 1 0 32.0 2779.3 0 32.0 2 2770.1 ERR 3 ERR 2775.5 0 0 4 2803.5 0 2770.1 0 2780.1 5 2792.5 0 6 2773.2 0 7 8 34.3 mm **BFS Statistics:** Count: 4 Average: Perforations: 0 (Pass) Summary: k1: 3.046 St Dev.: 2.87 mm Maximum BFS: 38.0 mm (Pass - No BFS greater then 44 mm) Size: 10 x 12 Size: 10 x 12 Sample 4 Sample 3 Front Panel **Back Panel Back Panel** Front Panel Avg. Vel. Perf BFS Avg. Vel. Perf BFS Avg, Vel. Perf BFS Avg. Vel. Perf BES Shot (Y=<u>1/N=0) (mm)</u> Note (Y=1/N=0) (mm) Note (ft/sec) (Y=1/N=0) (mm) Note (ft/sec) (Y=1/N=0) (mm) Note (ft/sec) Number (ft/sec) 2775.5 0 37.0 0 37.0 1 2776.2 2814.5 0 36.0 2 2775.5 0 35.0 ERR ERR 3 0 2792.5 0 2765.5 4 2771.6 0 2793.3 5 0 2760.2 0 6 2797.2 0 7 8 **BFS Statistics:** Count: 4 Average: 36.3 mm Summary: Perforations: 0 (Pass) St. Dev.: 0.96 mm k1: 3.046 Maximum BFS: 37.0 mm (Pass - No BFS greater then 44 mm) Threat 2 - New Armor Test Velocity: ± 30 ft/s Conditioning: Wet Ammunition: Size: Not Yet Defined Size: Not Yet Defined Sample 6 Sample 5 Back Panel Front Panel Front Panel Back Panel BFS Avg. Vel. Perf BFS Perf BFS Avg. Vel. Shot Avg. Vel. Perf BES Avg. Vel. Perf Note (ft/sec) (ft/sec) (Y=1/N=0) (mm) (Y=1/N=0) (mm) Note (ft/sec) (Y=1/N=0) (mm) Note Number (ft/sec) (Y=1/N=0) (mm) Note 1 2 3 4 5 6 7 8 Average: #DIV/01 mm **BFS Statistics:** Count: 0 (Pass) Perforations: Summary: 0 St. Dev.: #DIV/0! mm k1. #N/A Maximum BFS: 0.0 mm (Pass - No BFS greater then 44 mm)

	Sample	7		Size:	Not Yet D	Defined			Sample	8		Size:	Not Yet D	efined		
	-	Front Pa	inel			Back Pa	nel			Front Pa	nel			Back Pa	inel	
Shot	Avg, Vel.	Perf	BFS		Avg. Vel.	Perf	BFS		Avg. Vel.	Perf	BFS		Avg. Vel.	Perf	BFS	
Number	(ft/sec)	(Y=1/N=0)	(mm)	Note	(ft/sec)	(Y=1/N=0)	(mm)	Note	(ft/sec)	(Y=1/N=0)	(mm)	Note	(ft/sec)	(Y=1/N=0)	(mm)	Note
1																
2																
3																
4																
5																
6																
7									1				ļ			
8									L				l	115 B 116 1		
Summar	y:	Perfor	ations:	Ō	(Pass)			BFS	Statistics:		0		Average:			
		Maximun	n BFS:	0.0	mm						#N/A		St. Dev.:	#DIV/0!	mm	
						(Pass - N	o BFS	greater	then 44 r	nm)						

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Penetration and BFS Summary Data

Report Number:												Report Date: 05/15/09				
Manu	ifacturer:	SAI	FARILA	AND, L	LC.	Model	Design	ation:	2120-5				1	NIJ Armor	Type:	3
						Threat	t 1 - Co	nditio	ned Armo	r						
Amr	munition:	7.62m	າກ	14	7/FMJ	T	'est Ve	locity:	2780	± 30 ft/s			Cond	ditioning:	Dry	
						-										
	Sample	21		Size:	Not Yet [Sample	22		Size:	Not Yet I			
		Front Pa				Back Pa				Front Pa				Back Pa		
Shot	Avg. Vel.	Perf	BFS		Avg. Vel.	Perf	BFS		Avg. Vel.	Perf	BFS		Avg. Vel.		BFS	N-4
Number	(ft/sec)	(Y=1/N=0)	(mm)	Note	(ft/sec)	(Y=1/N=0)	(mm)	Note	(ft/sec)	(Y=1/N=0)	(mm)	Note	(ft/sec)	(Y=1/N=0)	(mm)	Not
1									Ì							
2																
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6									ł							
7																
8																
Summa	<u> </u>	Perfora	ations:	0	(Pass)			·		Perfor	ations:	0	(Pass)			
- annina	· y ·	Maximum				requiremer	nt)			Maximun				requireme	nt)	
	Sample	23		Size:	Not Yet I	Defined			Sample	24		Size:	Not Yet	Defined		
		Front Pa	inel			Back Pa	nel			Front Pa	nel			Back Pa	anel	
Shot						Perf	BFS		Avg. Vel.	Perf	BFS					
Number	Avg. Vel.	Perf	BFS		Avg. Vel.	rea	0.0		Arg. ten	1 611	010		Avg. Vel.	Perf	BFS	
Hannoul	Avg. Vel. (ft/sec)	Perf		Note	Avg. Vel. (ft/sec)	(Y=1/N=0)		Note	-	(Y=1/N=0)		Note	Avg. Vel. (ft/sec)			Not
1	-	Perf		Note	-			Note	-			Note	~			Not
1 2	-	Perf		Note	-			Note	-			Note	~			Not
1 2 3	-	Perf		Note	-			Note	-			Note	~			Not
1 2 3 4	-	Perf		Note	-			Note	-			Note	~			Not
1 2 3 4 5	-	Perf		Note	-			Note	-			Note	~			Not
1 2 3 4 5 6	-	Perf		Note	-			Note	-			Note	~			Not
1 2 3 4 5 6 7	-	Perf		Note	-			Note	-			Note	~			Not
1 2 3 4 5 6 7 8	(ft/sec)	Perf (Y=1/N=0)	(mm)		(ft/sec)			Note	-	<u>(Y=1/N=0)</u>	<u>(mm)</u>		(ft/sec)			Not
1 2 3 4 5 6 7	(ft/sec)	Perf (Y=1/N=0) Perfor	(mm)	0	(ft/sec)	<u>(Y=1/N=0)</u>	(mm)	Note	-	(Y=1/N=0) Perfor	(mm) ations:	0	(ft/sec) (Pass)	(Y=1/N=0)	(mm)	Not
1 2 3 4 5 6 7 8	(ft/sec)	Perf (Y=1/N=0)	(mm)	0	(ft/sec)		(mm)	Note	-	<u>(Y=1/N=0)</u>	(mm) ations:	0	(ft/sec) (Pass)		(mm)	Not
1 2 3 4 5 6 7 8	(ft/sec)	Perf (Y=1/N=0) Perfor	(mm)	0	(ft/sec)	(Y=1/N=0) requireme	(mm)		-	(Y=1/N=0) Perfor	(mm) ations:	0	(ft/sec) (Pass)	(Y=1/N=0)	(mm)	Not
1 2 3 4 5 6 7 8	(ft/sec)	Perf (Y=1/N=0) Perfor Maximun	(mm) rations: n BFS:	0 0.0	(fusec) (Pass) mm (no	(Y=1/N=0) requiremen Ov	(mm) nt) erall P	BFS S	(t/Jsec)	(Y=1/N=0) Perfor Maximur	(mm) ations: n BFS:	0 0.0	(ft/sec) (Pass) mm (no	(Y=1/N=0) requireme	(mm)	Not
1 2 3 4 5 6 7 8 Summa	(ft/sec)	Perf (Y=1/N=0) Perfor Maximun	(mm) rations: n BFS:	0 0.0	(ft/sec) (Pass) mm (no	(Y=1/N=0) requireme	(mm) nt) erall P	BFS S	(t/Jsec)	(Y=1/N=0) Perfor Maximur	(mm) ations: n BFS:	0 0.0	(ft/sec) (Pass) mm (no	(Y=1/N=0) requireme	(mm)	Nol
1 2 3 4 5 6 7 8 umma	(tt/sec)	Perf (Y=1/N=0) Perfor Maximun	(mm) ations: n BFS: This a	0 0.0 rmor m	(ft/sec) (Pass) mm (no	(Y=1/N=0) requiremen Ov	(mm) nt) erall P	BFS S	(t/Jsec)	(Y=1/N=0) Perfor Maximur	(mm) ations: n BFS:	0 0.0	(ft/sec) (Pass) mm (no	(Y=1/N=0) requireme	(mm)	Not

Backface Signature 38.0 mm

Maximum BFS:

This armor model meets the BFS performance requirements of NIJ Standard-0101.06 Section 7.8.8 Item a.

#NAME?

NATIONAL INSTITUTE OF JUSTICE **COMPLIANCE TEST REPORT**

Manufacturer: SAFARILAND_LLC. Model Designation: 2120-5 NLJ Armor Type: 3 Ammunition: 7.62mm 147/FAU Sample 11 Sample Conditioning: Dr Stat Apple 11 Sample 12 Sample 12 Conditioning: Dr Stat Apple Pert Apple 12 Sample 12 Sample 13 Stat Apple Pert Apple Pert Apple 14 Apple 14 Apple 14 Apple 14 14 14 14 14 14 14 14 14 14	Report	Number:	11137-(06A		Test I	Ballis D: SAF09	stic Lim	it Sum	mary D	<u>ata</u>	Repor	t Date:	()5/15/09	
Ammunition: 7.82mm 147/FMJ Test Velocity: 2780 ± 30 ft/s Conditioning: Dry Sample 11 Sample 11 Sample 12 Sample 12 Sample 13 Non-ber Privaci Privaci Avg. Vel. Perf Avg. Vel. <td< td=""><td></td><td></td><td></td><td></td><td>LC.</td><td></td><td></td><td></td><td>ignation</td><td>: 2120-5</td><td>5</td><td>••••</td><td></td><td></td><td></td><td>3</td></td<>					LC.				ignation	: 2120-5	5	••••				3
Ammunition: 7.82mm 147/FMJ Test Velocity: 2780 ± 30 ft/s Conditioning: Dry Sample 11 Sample 11 Sample 12 Sample 12 Sample 13 Non-ber Privaci Privaci Avg. Vel. Perf Avg. Vel. <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>Th</td><td>reat 1 - N</td><td>ew Arm</td><td>or</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>							Th	reat 1 - N	ew Arm	or						
Sample 11 Sample 12 Sample 12 Sample 13 Front Panel Back Panel Handle Panel Rav, Vel. Panel	Amn	nunition:	7.62m	m	147	/FMJ					± 30 ft/s		_	Cond	litioning:	Dry
Front Panel Back Panel Pront Panel Rowber Panel																
Shot Yeg, Vel. Perf. Aug, Vel. Perf. Aug, Vel. Perf. Aug, Vel. Perf. Hores Hores<								••••••••••••••••••••••••••••••••••••••								
Number Office (Presc) (Yer1N=0) Note	Shot															
1 2 273.7 0 #12 FI 2666.8 0 #14 FI 2 2 332.8 0 #12 FI 2666.8 0 #14 FI 3 4 303.7 0 #14 FI 332.8 0 #12 FI 303.7 0 #14 FI 6 (a) 3516.2 1 #12 FI 303.7 0 #14 FI 7 350.3 0 #12 FI 303.7 0 #14 FI 8 3360.3 0 #12 FI 304.06 0 #14 FI 9 341.8 0 #13 FI 3400.0 #16 FI 11 3480.7 1 #13 FI 3480.7 #16 FI 13 340.7 0 #15 FI 3480.7 1 #15 FI 14 Front Panel Asg.Vei Perf Avg.Vei Perf Avg.Vei Perf 13 14 Sample 15 Sample 15 Sample 16 Avg.Vei Perf 14		-		Note	-		0) Note	-)) Note	-		Note			Note
3 4 5 0 #12 FF 3037.7 0 #14 FF 4 3360.3 0 #12 FF 3327.5 0 #14 FF 5 (a) 3360.3 0 #12 FF 3326.45 0 #14 FF 5 (a) 3411.8 0 #12 FF 3326.45 0 #14 FF 9 3411.8 0 #12 FF 3427.6 0 #15 FF 340.7 0 #15 FF 11 3411.8 0 #13 FF 340.6 0 #15 FF 349.7 0 #15 FF 13 341.7 0 #13 FF 340.7 0 #15 FF 349.7 0 #15 FF 13 340.7 0 #13 FF 340.7 0 #15 FF 349.7 0 #15 FF 341.7 0 #13 FF 340.7 0 #15 FF 349.7 0 #16 FF 14 5 5 9 3 340.7 0 #16 FF 349.7 0 #16 FF 349.7 0 #16 FF		(<u>()</u>		<u> </u>	•						0	#14 FI			
4 3277.6 0 #12 FR 3746.6 0 #14 FR 5 (a) 3360.3 0 #12 FR 3267.5 0 #14 FR 7 3360.3 0 #13 FR 340.7 0 #15 FR 9 347.6 0 #13 FR 340.7 0 #15 FR 10 3437.6 0 #13 FR 340.7 0 #15 FR 340.7 0 #13 FR 340.7 0 #15 FR 349.7 11 340.7 0 #15 FR 349.7 0 #15 FR 340.7 1 #13 FR 340.7 0 #15 FR 340.7 0 #15 FR 349.7 0 #15 FR 340.7 1 #15 FR 349.7 0 #15 FR 14 5 6 7 7 8 7 8 14 7 9 Perf Avg. Vel. Perf 7 7 8 7 7 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								1								
s (a) 3366.3 0 #12 FR 3275.5 0 #14 FR s (a) 346.5 0 #12 FR 3245.5 0 #14 FR 3411.8 0 #13 FR 3406.5 0 #15 FR 3411.8 0 #13 FR 3406.5 0 #15 FR 3411.7 0 #13 FR 3496.7 0 #15 FR 3411.7 0 #13 FR 3496.7 0 #15 FR 3491.7 0 #13 FR 3496.7 0 #15 FR 3491.7 0 #13 FR 3496.7 0 #15 FR 3491.7 0 #15 FR 3491.7 0 #15 FR 349 7 0 #15 FR 3491.7 0 #16 FR 1 2 349.7 0 #16 FR Arg. Vel. Pert Arg. V																
s (a) 3516.2 1 #12 Fi 3324.5 0 #14 Fi 3417.6 7 3437.6 0 #13 Fi 3460.7 0 #15 Fi 3480.7 0 #15 Fi 407.4 0 #15 Fi 407.4 Firont Panel Avg. Vel. Perf Avg.				(h)												
7 3411.8 0 #13 Fi 3400.7 0 #15 Fi 4340.7 9 3437.6 0 #13 Fi 3460.7 0 #15 Fi 43460.7 0 #15 Fi 4366.7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <td></td> <td>1</td> <td></td> <td></td>														1		
s 3437.6 0 #13 Fi 3480.7 0 #13 Fi 10 3468.8 1 #13 Fi 3460.7 0 #13 Fi 12 3431.7 0 #13 Fi 3480.7 0 #13 Fi 14 3491.7 0 #15 Fi 3480.7 1 #15 Fi 3480.7 1 #13 Fi 3480.7 1 #15 Fi 3480.7 1 #13 Fi 3480.7 1 #15 Fi 3480.7 1 #15 Fi 3480.7 1 #15 Fi 340.7 1 #15 Fi 3480.7 1 #15 Fi 340.7 1 #16 Fi Sample 15 Sample 15 12 3/2 10/2 1/2 Sample 15 Sample 15 34 5 5 5				(α)				1			3					
9 3466.8 1 #13 Ff 3466.8 0 #13 Ff 3465.8 0 #13 Ff 10 11 3431.7 0 #13 Ff 3491.7 0 #13 Ff 12 3431.7 0 #13 Ff 3491.7 0 #13 Ff 13 3491.7 0 #13 Ff 3480.7 1 #15 Ff 3480.7 1 #15 Ff 3480.7 1 #15 Ff 3480.7 1 #15 Ff 3x80.7 1 #15 Ff 3480.7 1 #15 Ff 3480.7 1 #15 Ff 3x80.7 Perf Arg. Vel. Perf Arg. Vel. Perf Arg. Vel. Perf 12 Arg. Vel. Perf Arg. Vel. Perf </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> <td></td> <td></td> <td>0</td> <td>#15 FI</td> <td></td> <td></td> <td></td>									0			0	#15 FI			
11 12 3491.7 0 #15 Ff 13 14 Sample 14 Sample 14 Sample 15 Back Panel Avg. Vol. Perf Avg. Vol. Perf								3486.8	1			0		1		
12 3480.7 1 #15 Ff 13 14 15 Sample 14 Sample 14 Sample 15 Sample 15 Sample 15 Sample 15 Sample 16 Note Regression Model Regression Analysis Front Panel Avg. Vel. Perf Note (t/sec) (Y=tIN=0) Note (t/sec) (Y=tIN=0) Note (t/sec) (Y=tIN=0) Note (t/sec) (Y=tIN=0) Note Regression Model Regression Model Regression Model Image: Simple 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10	10							3431.7	0	#13 FI						
31 14 15 Sample 13 Sample 14 Sample 15 Sample 15 Back Panel Avg. Vel. Perf Back Panel Avg. Vel. Perf Avg. Vel. Avg. Vel. Avg. Vel. <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								1								
14 Sample 13 Sample 14 Sample 15 Sample 15 Back Panel Arg, Vel. Perf Ar											3400.7	1	#10 F			
15 Sample 13 Sample 14 Sample 14 Sample 15 Sample 15 Sample 16 Back Panel Avg. Vel. Perf Avg. Vel. Avg. Vel. Perf Avg. Vel. Avg. Vel. Perf Avg. Vel. Perf Avg. Vel. Avg. Vel. Avg. Vel. Avg. Vel.																
Sample 13 Sample 14 Sample 14 Sample 15 Sample 15 Back Panel Front Panel Front Panel Avg. Vel. Perf (t//sec) (Y=t/N=0) Note (t//sec)																
Shot Number Aug. Vel. (t/sec) Perf (t/sec) Avg. Vel. (t/sec) Perf (t/		Sample	13		Sample			Sample								
Number (t/t/sec) (Y=1/N=0) Note (t/t/sec)					1			1								
Image: Test of the second s		-			- · ·			-			1) Noto	-		Note
2 3 3 4 5 6 7 8 9 10 11 12 13 14 14 15 Summary: Total Usable Shots: 21 Perforations (Complete Penetrations): 3 Stops (Partial Penetrations): 18 Regression Model: Logistic Model Parameters: β0: ####### §1: ######## Estimated V50: #### ft/s Estimated V50: #### ft/s 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: <t< td=""><td></td><td>(ft/sec)</td><td>(Y=1/N=0)</td><td>Note</td><td>(tt/sec)</td><td>(Y=1/N</td><td>=U) Note</td><td>(tt/sec)</td><td>(Y=1/N=</td><td>U) NOTE</td><td>(ft/sec)</td><td>{Y=1/N=0</td><td>) Note</td><td>(iusec)</td><td>(1-1/14-0)</td><td>Note</td></t<>		(ft/sec)	(Y=1/N=0)	Note	(tt/sec)	(Y=1/N	=U) Note	(tt/sec)	(Y=1/N=	U) NOTE	(ft/sec)	{Y=1/N=0) Note	(iusec)	(1-1/14-0)	Note
3 4 5 6 7 8 9 10 11 12 13 14 15 Total Usable Shots: Perforations (Complete Penetrations): 3 Stops (Partial Penetrations): 18 Regression Model: Logistic Model Parameters: 60: 80: ####### Estimated V50: ####### Estimated V50: ####### 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0:																
4 5 6 7 8 9 10 11 12 13 14 15 0 Good Summary: Total Usable Shots: 21 10 10 10 0 Good Perforations (Complete Penetrations): 3 18 Test Data and Regression Model 0 Good Regression Analysis 10 0 0 0 0 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																
6 7 8 9 10 10 11 12 13 14 15 0 Good Summary: Total Usable Shots: 21 Test incomplete Perforations below 2810 ft/s: 0 Good Summary: Total Usable Shots: 3 3 Test Data and Regression Model 0 Good Regression Analysis 18 Test Data and Regression Model 0 Good	4															
7 8 9 10 10 11 12 13 13 14 15 Total Usable Shots: Stops (Partial Penetrations): 18 Regression Model: Logistic Model Parameters: β0: ###### Estimated V50: #### ft/s Probability of perforation at NIJ reference velocity (2780 ft/sec): ### #NAME? 100 1500 2000 2500 3000 3500 4000											l			Į		
8 9 10 11 12 13 13 14 15 5 Summary: Total Usable Shots: 21 Test Incomplete Perforations (Complete Penetrations): 3 Stops (Partial Penetrations): 18 Regression Analysis 10 Regression Model: Logistic Model Parameters: β0: ######## Estimated V50: #### ft/s Estimated V05: #### #NAME? Probability of perforation at NIJ reference velocity (2780 ft/sec): 0.2 0.0 1500 2000 2500 3000 3500 4000					1											
9 10 11 12 13 14 15 13 Summary: Total Usable Shots: Perforations (Complete Penetrations): 21 Stops (Partial Penetrations): 18 Regression Analysis 18 Regression Model: Logistic Model Parameters: β0: β1: ###### Estimated V50: ###### Probability of perforation at NIJ reference 0.4 Velocity (2780 ft/sec): ##### #NAME? 1000 1500 2000 2500 3000 3500 4000																
10 11 12 13 14 15 Summary: Total Usable Shots: Perforations (Complete Penetrations): 3 Stops (Partial Penetrations): 18 Regression Analysis 10 Regression Model: Logistic Model Parameters: β0: ####################################																
12 13 14 15 Summary: Total Usable Shots: Perforations (Complete Penetrations): 21 Stops (Partial Penetrations): 18 Regression Analysis 18 Regression Model: Logistic Model Parameters: β0: ####### β1: ###### 1.0 0.6 0.5 0.6 0.5 0.7 0.6 0.8 0.7 0.6 0.5 0.7 0.6 0.8 0.7 0.6 0.5 0.7 0.6 0.8 0.7 0.6 0.5 0.7 0.6 0.8 0.7 0.6 0.5 0.7 0.6 0.8 0.7 0.9 0.4 0.1 0.4 0.2 0.4 0.3 0.4 0.4 0.3 0.5 0.4 0.4 0.4 0.5 0.4																
13 14 15 13 14 15 13 14 15 13 14 15 13 16 Test incomplete Perforations below 2810 ft/s: 0 Good Summary: Perforations (Complete Penetrations): Stops (Partial Penetrations): 18 Test Data and Regression Model 0 Good Regression Analysis Regression Model: Model Parameters: 10 0 9 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.8 0.7 0.6 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 </td <td>11</td> <td></td>	11															
14 15 14 15 16 17 Tost incomplete Perforations below 2810 ft/s: 0 Good Summary: Total Usable Shots: 3 3 Test incomplete Perforations below 2810 ft/s: 0 Good Perforations (Complete Penetrations): 18 Test Data and Regression Model 0 9 Regression Analysis Regression Model: Logistic Model Parameters: 00: ######## 0.9 0.8 0.7 0.8 0.7 0.6 0.9 0.8 0.7 0.6 0.9 0.8 0.7 0.6 0.5 0.6 0.5 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.5 0.6 0.4 0.5 0.5 0.5 0.2 0.3 0.2 0.4 0.3 0.2 0.1 0.0 0.2 0.1 0.0 0.2 0.1 0.0 0.2 0.1 0.0 0.2 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>																
15 Total Usable Shots: 21 Test incomplete Perforations below 2810 ft/s: 0 Good Perforations (Complete Penetrations): 3 18 Test Data and Regression Model 0 Good Regression Analysis 18 Test Data and Regression Model • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • •																
Summary: Total Usable Shots: 21 Test incomplete Perforations below 2810 ft/s: 0 Good Perforations (Complete Penetrations): 3 Test Data and Regression Model 0 Good Regression Analysis 18 Test Data and Regression Model 0 Good Regression Model: Logistic 0.9 0.9 0.9 0.9 0.9 Model Parameters: β0: ####################################																
Perforations (Complete Penetrations): 3 Stops (Partial Penetrations): 18 Test Data and Regression Model Regression Analysis 0.1 0.9 0.9 0.9 0.9 0.9 Model Parameters: β0: ####### 0.7 0.8 0.7 0.6 0.4 0.7 0.6 0.7 0.6 0.7 0.6 0.5 0.6 0.5 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6		rv:	Tota	al Usa	ble Shots	: 21	Test	incomple	te	Pe	erforation	s below 2	810 ft/s	: 0	Good	
Regression Analysis Regression Model: Logistic Model Parameters: β0: β1: ####################################		erforations	(Complet	e Pen	etrations)	: 3			-							
Regression Model: Logistic Model Parameters: $\beta0$: ####### $\beta1$: ####################################		St	ops (Parti	al Pen	etrations)	: 18			les	t Data a	na kegre	SSION MO	odel			
Regression Model: Logistic Model Parameters: β 0: ####### β 1: ####################################		Bear	alon Ano	lucio			4.0									
Model Parameters: ⁰ ^{#############################}					nistic											
β1: ###### Estimated V50: #### ft/s Estimated V05: #### ft/s 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.6 0.7 0.8 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.6 0.7 0.8 0.9 1000 1500 2000					-		1							*	Test Data	
Estimated V50: #### ft/s Estimated V05: #### ft/s Probability of perforation at NIJ reference velocity (2780 ft/sec): #### #NAME? 1000 1500 2000 2500 3000 3500 4000							1									
Probability of perforation at NIJ reference velocity (2780 ft/sec): #### #NAME? 1000 1500 2000 2500 3000 3500 4000						līt							***			0
Probability of perforation at NIJ reference velocity (2780 ft/sec): #### #NAME? 1000 1500 2000 2500 3000 3500 4000		Estim	ated V50:	####	ft/s	labi								-		
Probability of perforation at NIJ reference velocity (2780 ft/sec): #### #NAME? 1000 1500 2000 2500 3000 3500 4000		Fatim	atod VOE.	####	ft/e	rob										
Probability of perforation at NIJ reference velocity (2780 ft/sec): #### #NAME? 1000 1500 2000 2500 3000 3500 4000		Esum	aleu VU5:	####	105	ሲ										
velocity (2780 ft/sec): #### #NAME? 0.0	Prob	ability of n	erforation	at NIJ	reference									L	L31. V03	
1000 1500 2000 2500 3000 3500 4000											• • • • • •	-00000				
								1500	2000	2500	3000	3500	4000			

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NATIONAL INSTITUTE OF JUSTICE COMPLIANCE TEST REPORT

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	Number: facturer:	11137- SAFARIL		LC.	Test II	: SAF09	9-000463	it Summ			Report	Date:		5/15/09 or Type:	3
Amn	nunition:				<u>,</u>	Th		ew Armoi Velocity:		± 30 ft/s			Cond	itioning:	WET
	Sample Front	16 Panel		Sample Back	16 Panel		Sample Front	17 Panel		Sample Back	17 Panel		Sample Front	18 Panel	
Shot	Avg, Vel,	Perf		Avg. Vel.	Perf		Avg. Vel.	Perf		Avg. Vel.	Perf		Avg. Vel.	Perf	
Number	(ft/sec)	(Y=1/N=0)	Note	(ft/sec)	(Y=1/N=	0) Note	(ft/sec)	(Y=1/N=0)	Note	(ft/sec)	(Y=1/N=0)	Note	(ft/sec)	(Y=1/N=0)	Note
1				1											
2 3															
4															
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7															
8 9															
9 10															
11															
12				ļ			ļ						ļ		
13										1					
14 15															
15	Sample	18		Sample	19		Sample	19		Sample	20		Sample	20	
	Back	Panel		Front	Panel		Back	Panel		Front	Panel		Back	Panel	
Shot	Avg. Vel.	Perf		Avg. Vel.	Perf		Avg. Vel.	Perf		Avg. Vel.			Avg. Vel.	Perf	
Number	(ft/sec)	(Y=1/N=0)	Note	(ft/sec)	(Y=1/N	=0) Note	(ft/sec)	(Y=1/N=0)	Note	(ft/sec)	(Y=1/N=0)	Note	(ft/sec)	(Y=1/N=0)	Note
1															
2 3															
4															
5															
6															
7 8	1						1								
9															
10															
11	1														
12															
13 14															
15															
Summa	ry:	Tot	al Usa	ble Shots	: 0	Test	incomple	te				#####	0	Good	
Pe	erforations	s (Complet	e Pen	etrations)	: 0			Test	Data a	nd Reare	ssion Mo	del			
	St	ops (Parti	al Pen	etrations)	: 0			1000		ina regio					
	Rogra	ssion Ana	lveie			1.0						1			
		on Model:		ogistic		0.9			na ang sar dag ang bit tan s						
		rameters:		: 		0.8			an on the latent of the	******			\$	Test Data	
				: #######		0.7 +								- V Ref.	
					Probability	0.6								- V Ref. + 3	0
	Estim	ated V50:	#####	tt/s	bab	0.5			******					– Est. Resp	onse
	Fetim	ated V05:	 	ft/s	5 2	0.4								- Est. V50	
	Louin			100		0.2							-	- Est. V05	
		erforation				0.1		~					L		
Ve	elocity (27	80 ft/sec):	####	#NAME	?	0.0					- 1				
						1000	1200	140	כ	1600	1800	2000	I		
								Ve	locity (ft/s)					

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EXPORT CONTROLLED DATA.

Page 2 of 3

NATIONAL INSTITUTE OF JUSTICE COMPLIANCE TEST REPORT

						atic Limit Summ	nary D	<u>Data</u>					
	lumber:	11137-06A		Test ID:				<u>.</u>	Report	Date:		05/15/09	3
Manul	acturer:	SAFARILAND,	LLC.		M	odel Designation:	2120-	5				or Type:	3
۸mm	Thr unition:	eat 1 - Conditi 7.62mm		or /FMJ			Amr	Tł nunition:	nreat 2 - C 0	onditi		n <mark>or</mark> 0	
	/elocity:			Cond:	Dry		Test	Velocity:	0	± 30 f	t/s	Cond:	Dry
2													
	Sample	25	Sample	25				Sample	26		Sample Back	26 Panel	
	Front	Panel	Back	Panel			01	Front Avg. Vel.	Panel Perf		Avg. Vel.	Perf	
Shot	Avg. Vel.	Perf	Avg. Vel.	Perf (Y=1/N=0)	Note		Shot Num	Avg. vei. (ft/sec)	Реп (Y=1/N=0)	Note	(ft/sec)	(Y=1/N=0)	Note
Number 1	(ft/sec)	(Y=1/N=0) Note	(ft/sec)	(T=1/N=0)	Note		1		(1-1/14-0)	NOLO	(10360)	(1-3/10-0)	Note
2							2						
3							3						
4							4						İ
5							5						
6							6						
7							7						
8							8						
9							9						
10							10						
11							11 12						
12							13						
13 14							14	1					
14							15						
Summar		· · · · · · · · · · · · · · · · · · ·				1	Sumr	nary:					
Jumma		al Usable Shot	s: 0	Incomple	ete				tal Usable	Shots	: 0	Incomple	ete
		erforations (CP		En andre se andre se andre se andre se andre se andre se andre se andre se andre se andre se andre se andre se				P	erforation	s (CP)	: 0	ALC: NO CONTRACTOR OF A	
	•	Stops (PP					ł		Stop	s (PP)	: 0		
Pe	rforations	below 2810 ft/		Good				Perforatio	ons below	30 ft/s	: 0	Good	
	Dearra	alan Anabisis						Roor	ession An	alveid			
		ssion Analysis on Model: I	ogistic				I		on Model:		, ogistic		
			-091311C 0: #######	Ł					rameters:		: 		
			1; ####################################								: ########		
	Estim	ated V50: ###	# ft/s					Estim	ated V50:	####	ft/s		
						Dollintia Limit Orr							
		·////		<u> </u>	verall	Ballistic Limit Su	nmary						
1													

Perforations below Vref + 30 ft/sec:

This armor model meets the low perforation velocity performance requirements of NIJ Standard-0101.06 Section 7.9.5.

Probability of perforation at the P-BFS reference velocity Threat 1: ###### Threat 2: #######

0

#NAME?

#NAME?

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EXPORT CONTROLLED DATA.

NATIONAL INSTITUTE OF JUSTICE **COMPLIANCE TEST REPORT**

<u>#VALUE!</u>

F	Report N	umber:	11137	7-06A	A Report Date:			e: 05/15/09			Test Date:	
٩	٦	Test ID:	SAFARI SAF09-0	000463	LC.			т	'est Ve	nition: _ locity: _ oning: _	#VALUE! #VALUE! #VALUE!	#VALUE! ± 30 ft/s
	TEST DIME	ENSIONS:	Ran	ge Length:	50.30	ft.		Velocity 1: Velocity 2:				
							#VAL	UEI				
							Front F	Panel				
Pane	Serial N	No:		#VALU	Ξ!			Serial No:			#VALUE!	-
PRE-T	EST CLAY	VALIDAT	ION:				Di	rop Numb	er]
	В	lock ID:			Depth of	1	2	3	4	5	Avg.	
	Time	of Day:		HH:mm	Indent:		a patron			AND ST		
Cla	iy Tempi	erature:		F		Require	ments:	All drops:	19 ± 3	mm, Av Pass:	/erage: 19 ± 2 mm -	
TEST	CONDITIO	10			٥	rmor Su	hmersio	n			Firing Sequenc	e
1231 1	501001101	Start	End							Start:	en an	
Ambi	ent Temp:			F	End	<u>, 1947 - 194</u> - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947	<u></u>	HH:mm				
	Humidity:			%	Duration:			min	n			
1161.	i luimany.	· · · · ·		70	Burution		<u> </u>		_			
					· · · · · · · · ·		FRONT	PANEL				
Shot	Time 1	Vel. 1	Time 2	Vel. 2	Vel. Avg.		Fair	Perforate		BFS		
No.	(µs)	(ft/s)	(µs)	(ft/s)	(ft/s)	Angle	(Y/N)	(Y=1/N=0)	Note	(mm)	Com	ments
1	(04)	0	<u><u><u></u></u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u>	0	(,,	0°			1.55375.5		ana ana ang ang ang ang ang ang ang ang	
2		0		0		0°					ved Attice ener	
3		0		0		0°			1			
4	1. 1. 1. 1.	0		0		########						
5		0		0		#######	e ha en					a an tha bha an an th
6		0	1	0		0°						
7				0		N 1993 N	en en en en en en en en en en en en en e	ann an th		and and a		
8		0		0				hanna an Afri		an said		an an tha bha an th
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POST	TEST CLA						D	rop Numb	er			7
					Depth of	1	2		4	5	Avg.	1
				HH:mm	Indent:			and the second	N			1
Cl	av Temo	erature		F		Require	ments	: All drops:	19 ± 3	mm, A	verage: 19 ± 2 mm	7
51	.,p			•		•		•		Pass:	-	
NOTE	S:											— ,
	Excessive	velocity		d	- Too close to	prior imp	act			g -	Impact on seam	

a - Excessive velocity

b - Insufficient velocity

c - Too close to edge

d - Too close to prior impact

e - Excessive total impacts (test terminated)

f - Excessive area impacts (test terminated)

EXPORT CONTROLLED DATA.

NATIONAL INSTITUTE OF JUSTICE **COMPLIANCE TEST REPORT**

For Test Laboratory Use

<u>#VALUE!</u>

F	Report N	umber:	: <u>11137-06A</u>		Report Date:		05/15/	09		Test Date	<u>terretesen and terretesen</u>	
	64		CALADI						1	nition:	#VALUE!	#VALUE!
			SAFARI		LU.	•						
			SAF09-0								#VALUE!	± 30 108
h	NJ Armo	or Type:	;	3	•			C	onditio	oning:	#VALUE!	-
	TEST DIMI	Ensions:	Ran	ge Length:	50,30	ft.		Velocity 1: Velocity 2:				
							#VAL	UE!				
							Back F	Panel				
Pane	I Serial I	No:		#VALU	Ξ!		Plate S	Serial No:			#VALUE!	_
	EST CLAY						D	rop Numb	or			7
PRE-I					Depth of	1	2	3	4	5	Avg.	
	Timo	of Dave		HH.mm	Indent:			and the second			7.09.	~
Cla	Mille W Tomn	erature:		F		Require	ments:	All drops:	19 ± 3	mm A	verage: 19 ± 2 mm	7
012	ay remp	crataro.				. toquiro		u. e. e. e. e.		Pass:		
												_
TEST	CONDITIO	NS:			ļ	rmor Su	bmersio	n			Firing Sequence	
		Start	End							Start:	<u>i i se serveza ja ba</u>	HH:mm
Ambi	ent Temp:				End:			HH:mm			<u> </u>	
Rel.	Humidity:			%	Duration:	<u>, , , i,</u>	<u> </u>	min	C	uration:		min
							BACK F	ANEL				
Shot	Time 1	Vel. 1	Time 2	Vel. 2	Vel. Avg.		Fair	Perforate		BFS		
No.	(µs)	(ft/s)	(µs)	(ft/s)	(ft/s)	Angle		(Y=1/N=0)	Note	(mm)	Con	nments
1		0	1	0	1	0°			11.4	250 A.	ianus <u>di sia</u> da	Al Const Manufact
2		0		0		00						
3		0		0		0º	an shirt					
4		0		0		#######################################			1.4.192			
5		0	No. 6	0		##### #			servite.			a di kacamat kan
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7	esta. Maria di Antonio	0		0		494 A.	ta na		<u></u>	0.000		
8		0		0			i da se da la		R. L. Lee		and the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states of the states o	
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POST	-TEST CLA				Depth of	1		3		5	Avg.	
			<u>hara</u> 1940-9	UU-mm	Indent:		-		-		<u>Avg.</u>	4
CL	i iiite av Tomn	oratura					mente		19+3		verage: 19 ± 2 mr	n
	ay remp	erature	• <u>**********</u>	-'		require		. An uropo.	, U ± U	Pass:	-	1
NOTE	S:							·				
а.	Excessive	velocity		d	- Too close to	ami roira	act			q -	Impact on seam	

a - Excessive velocity

d - Too close to prior impact

b - Insufficient velocity

c - Too close to edge

e - Excessive total impacts (test terminated)

f - Excessive area impacts (test terminated)

CTR Draft Revision 353

EXPORT CONTROLLED DATA.

NATIONAL INSTITUTE OF JUSTICE COMPLIANCE TEST REPORT

<u>#VALUE!</u>

	R	Report Number:11137-06A			- · -		05/1	5/09	Tes	st Date:	<u>bere en b</u>	<u></u>	
		Manufa	cturer:			ILAND, LL		Am	munition:	#VA	LUE!	#VA	LUE!
		Т	est ID:		SAFO	9-000463							
	N	IJ Armo	r Type:	3				Con	ditioning:	#VA	LUE!	-	
	т	EST DIME	NSIONS:	Rang	e Length:	n: 50.30 ft. Velocity 1: Velocity 2:				5. 5.	00	_ft. _ft.	
						5	Sample re						
						F	ront Panel						
Panel S	Serial No	No: #VALU			<u> </u>	_	Plate Seri	al No:	1	#VALUE	Ξ!		
	T CLAY V				_							-	
BI	ock ID:				ſ			Drop 1	Drop 2	Drop 3	Drop 4	Drop 5	Avg.
Time	of Day:		1. 1.	HH:mm		Depti	h of Indent:		a sa N	and the second			
Tempe	Block ID: e of Day:HH:mm perature:F					R	equiremen	ts: All drop	s: 19 ± 3	3 mm , A	verage: 1 Pass:	9 ± 2 mm -	
	••••••••••••••••••••••••••••••••••••••												
					-		Eiring Br	auonao					
TEST CO	NDITIONS			-	-	64	Firing Se	•	LII lumm				
test co	Ambie	ent Temp:			L		t:	<u></u>	HH:mm				
test co	Ambie				-	End	t: d:	<u></u>	HH:mm HH:mm				
test co	Ambie	ent Temp:			-	End	t:	<u></u>	,				
	Ambie Rel.	ent Temp: Humidity:		%	io Numb	Enc Duration	t: d: n:		HH:mm min				
	Ambie Rel.	ent Temp: Humidity:		%	le Numb	Enc Duration per(s) in R	t: d: n: lemarks Col	umn as Aț	HH:mm min				
Enter N	Ambie Rel.	ent Temp: Humidity: or Types	III and	% IV Samp		Enc Duration ber(s) in R BL I	t: d: emarks Col PANEL 1 - Fror	umn as Aț	HH:mm min oplicable				
Enter N	Ambie Rel. VIJ Armo Charge	ent Temp: Humidity: or Types Time 1	III and Vel. 1	% IV Samp Time 2	Vel. 2	Enc Duration per(s) in R BL 1 Vel. Avg.	t: d: n: Remarks Col PANEL 1 - Fror Re	umn as Ap at sult	HH:mm min oplicable Used			Iomarka	
Enter N Shot No.	Ambie Rel.	ent Temp: Humidity: or Types	Vel. 1 (ft/s)	% IV Samp	Vel. 2 (ft/s)	Enc Duration ber(s) in R BL I	t: d: emarks Col PANEL 1 - Fror	umn as Ap at sult	HH:mm min pplicable Used (Y/N)		' R	lemarks	
Enter N Shot No.	Ambie Rel. VIJ Armo Charge	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s)	% IV Samp Time 2	Vel. 2 (ft/s) 0	Enc Duration per(s) in R BL 1 Vel. Avg.	t:	umn as Ap at sult	HH:mm min pplicable Used (Y/N)		¹ R	emarks	
Enter N Shot No. 1 2	Ambie Rel. VIJ Armo Charge	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0	% IV Samp Time 2	Vel. 2 (ft/s) 0 0	Enc Duration per(s) in R BL 1 Vel. Avg.	t: d: n: Remarks Col PANEL 1 - Fror Re	umn as Ap at sult	HH:mm min pplicable Used (Y/N)	1-1-1-1-1 1-1-1-1-1 1-1-1-1-1	¹ R	emarks	<u></u>
Enter N Shot No.	Ambie Rel. VIJ Armo Charge	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0 0	% IV Samp Time 2	Vel. 2 (ft/s) 0 0 0	Enc Duration per(s) in R BL 1 Vel. Avg.	t:	umn as Ap at sult	HH:mm min pplicable Used (Y/N)		¹ R	emarks	
Enter N Shot No. 1 2	Ambie Rel. VIJ Armo Charge	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0	% IV Samp Time 2	Vel. 2 (ft/s) 0 0	Enc Duration per(s) in R BL 1 Vel. Avg.	t:	umn as Ap at sult	HH:mm min pplicable Used (Y/N)		R	emarks	
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Enter N Shot No. 1 2 3 4	Ambie Rel.	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0 0 0	% IV Samp Time 2	Vel. 2 (ft/s) 0 0 0 0	Enc Duration per(s) in R BL 1 Vel. Avg.	t:	umn as Ap at sult	HH:mm min pplicable Used (Y/N)		' R	lemarks	
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Enter N No. 1 2 3 4 5 6 7 8 9	Ambie Rel.	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0	% IV Samp Time 2	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0	Enc Duration per(s) in R BL 1 Vel. Avg.	t:	umn as Ap at sult	HH:mm min pplicable Used (Y/N)		/ R	emarks	
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Enter N No. 1 2 3 4 5 6 7 8 9 10 11	Ambie Rel.	ent Temp: Humidity: or Types Time 1	III and Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	% IV Samp Time 2	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0	Enc Duration per(s) in R BL 1 Vel. Avg.	t:	umn as Ap at sult	HH:mm min pplicable Used (Y/N)				
Enter N No. 1 2 3 4 5 6 7 8 9 10 11 11 12	Ambie Rel.	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	% IV Samp Time 2	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Enc Duration per(s) in R BL 1 Vel. Avg.	t:	umn as Ap at sult	HH:mm min pplicable Used (Y/N)				
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Enter N No. 1 2 3 4 5 6 7 8 9 10 11 11 12	Ambie Rel.	ent Temp: Humidity: or Types Time 1	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	% IV Samp Time 2	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Enc Duration per(s) in R BL 1 Vel. Avg.	t:	umn as Ap at sult	HH:mm min pplicable Used (Y/N)				

Remarks:

a - Too close to edge

b - Too close to prior impact

c - Impact on seam

NATIONAL INSTITUTE OF JUSTICE COMPLIANCE TEST REPORT

<u>#VALUE!</u>

	R	eport N	umber:	11137	7-06A					Test Date:		<u> 1997 y 1997 - 1</u>	
		Manufa	cturer:		SAFAR	RILAND, LLO	C.	Am	munition:	#VA	LUE!	#V/	ALUE!
			Fest ID:		SAF	09-000463							
	N	IJ Armo		3				Con	ditioning:	#VA	LUE!		
	т	EST DIME	NSIONS:	Ranç	je Length:	<u>50.30</u> ft.		Velocity 1: Velocity 2:			5.00 ft. 5.00 ft.		
						S	ample re						
						Ва	ack Panel						
anel S	I Serial No: #VAL					E!	_	Plate Seri	al No:	i	#VALUE!		
									<u></u>				
Bl	lock ID:			-				Drop 1	Drop 2	Drop 3	Drop 4	Drop 5	Avg.
Time	of Day:			HH:mm		Depth	of Indent:						
Tempe	erature:			.F			к	equiremen	ts: All drop	s: 19±3	3 mm , P	verage: Pass:	
EST CC	ONDITIONS Ambie Rel.	S: ent Temp: Humidity:		_F _%		End	Firing Se		HH:mm HH:mm min				
	Ambio Rel.	ent Temp: Humidity:		<u>%</u>	ole Numi	End Duration ber(s) in Re	emarks Col	umn as Al	HH:mm min				
Enter N	Ambie Rel.	ent Temp: Humidity: or Types	III and	_% IV Samp		End Duration ber(s) in Re BL P	emarks Col	umn as Ar	HH:mm min oplicable	1			
Enter M	Ambie Rel. NIJ Armo	ent Temp: Humidity: Dr Types Time 1	III and Vel. 1	IV Samp	Vel. 2	End Duration b er(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap nt sult	HH:mm min oplicable Used	1		tomarks	
Enter N Shot No.	Ambie Rel.	ent Temp: Humidity: or Types	Vel. 1 (ft/s)	_% IV Samp	Vel. 2 (ft/s)	End Duration ber(s) in Re BL P	emarks Col	umn as Ap nt sult	HH:mm min oplicable		R	temarks	
Enter M Shot No. 1	Ambie Rel. NIJ Armo	ent Temp: Humidity: Or Types Time 1 (μs)	Vel. 1 (ft/s) 0	IV Samp	Vel. 2 (ft/s) 0	End Duration b er(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap nt sult	HH:mm min oplicable Used		R	temarks	
Enter M Shot No. 1 2	Ambie Rel. NIJ Armo	ent Temp: Humidity: Dr Types Time 1	Vel. 1 (ft/s) 0	IV Samp	Vel. 2 (ft/s) 0	End Duration b er(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap nt sult	HH:mm min oplicable Used		R	temarks	
Enter N Shot No. 1 2 3	Ambie Rel. NIJ Armo Charge Weight	ent Temp: Humidity: Or Types Time 1 (μs)	Vel. 1 (ft/s) 0 0	IV Samp	Vel. 2 (ft/s) 0 0	End Duration b er(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap nt sult	HH:mm min oplicable Used (Y/N)		R	temarks	
Enter N Shot No. 1 2 3 4	Ambie Rel. NIJ Armo	ent Temp: Humidity: Or Types Time 1 (μs)	Vel. 1 (ft/s) 0 0 0 0	IV Samp	Vel. 2 (ft/s) 0 0 0	End Duration b er(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap nt sult	HH:mm min oplicable Used		R	temarks	
Enter N Shot No. 1 2 3 4 5	Ambie Rel. NIJ Armo Charge Weight	ent Temp: Humidity: Or Types Time 1 (μs)	Vel. 1 (ff/s) 0 0 0 0 0 0	IV Samp	Vel. 2 (ft/s) 0 0 0 0 0	End Duration b er(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap nt sult	HH:mm min oplicable Used (Y/N)		R	temarks	
Enter N Shot No. 1 2 3 4 5 6	Ambie Rel. NIJ Armo Charge Weight	ent Temp: Humidity: Or Types Time 1 (μs)	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0	IV Samp	Vel. 2 (ft/s) 0 0 0 0 0 0 0	End Duration b er(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap nt sult	HH:mm min oplicable Used (Y/N)		R		
Enter N Shot No. 1 2 3 4 5 6 7	Ambin Rel.	ent Temp: Humidity: Or Types Time 1 (μs)	Vel. 1 (ff/s) 0 0 0 0 0 0	IV Samp	Vel. 2 (ft/s) 0 0 0 0 0	End Duration b er(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap nt sult	HH:mm min oplicable Used (Y/N)		R	temarks	
Enter N Shot No. 1 2 3 4 5 6	Ambin Rel.	ent Temp: Humidity: Or Types Time 1 (μs)	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0	IV Samp	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0	End Duration b er(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap nt sult	HH:mm min oplicable Used (Y/N)		R	temarks	
Enter N No. 1 2 3 4 5 6 7 8	Ambin Rel.	ent Temp: Humidity: Or Types Time 1 (μs)	Vel. 1 (ff/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0	IV Samp	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0	End Duration b er(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap nt sult	HH:mm min oplicable Used (Y/N)		R	temarks	
Enter N No. 1 2 3 4 5 6 7 8 9	Ambin Rel.	ent Temp: Humidity: Or Types Time 1 (μs)	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	IV Samp	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End Duration b er(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap nt sult	HH:mm min oplicable Used (Y/N)		R	temarks	
Enter N No. 1 2 3 4 5 6 7 8 9 10	Ambin Rel.	ent Temp: Humidity: Or Types Time 1 (μs)	Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	IV Samp	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End Duration b er(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap nt sult	HH:mm min oplicable Used (Y/N)		R	temarks	
Enter N No. 1 2 3 4 5 6 7 8 9 10 11	Ambin Rel.	ent Temp: Humidity: Or Types Time 1 (μs)	III and Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	IV Samp	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End Duration b er(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap nt sult	HH:mm min oplicable Used (Y/N)		R	temarks	
Enter N No. 1 2 3 4 5 6 7 8 9 10 11 12	Ambin Rel.	ent Temp: Humidity: Or Types Time 1 (μs)	III and Vel. 1 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	IV Samp	Vel. 2 (ft/s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	End Duration b er(s) in Re BL P Vel. Avg.	emarks Col ANEL 1 - Fror Re	umn as Ap nt sult	HH:mm min oplicable Used (Y/N)		R	temarks	

cinarito,

a - Too close to edge

b - Too close to prior impact

c - Impact on seam

EXPORT CONTROLLED DATA.

Page 2 of 2

38.94 ft. 5.73 ft.

5.33 ft.

8.20 ft.

Oft.

26 in.

5.5 in.

Date Received: Via: Returned Via:	06/24/09 FedEx UPS		Record No: Test Date: Customer:	SAF09131 06/25/09 Safariland	
Test Condition Temperature: Humidity: Clay Block No.: Clay Temp.: Drops (Avg.): Test Spec.: Threat Level:	73 50 1 102 19	⁰F. % ºF. mm Abbreviated NIJ 0101.06 hreat			Range 4 Muzzle to Scr. 1: Screen 1 - 2: Screen 2 - Target: Midpoint to Target: Target to Witness: Barrel Length: Clay Block:
Condition:	Dry .				

Samp	Sample/Test Description					on Descripti	on	Chron	ograph	Results
Sample	Sample	Wet	0-45 Deg.	Shot	Shot	Caliber	Bullet	TIME	VELOCITY	Perforation
Size	Weight (lb.)	Dry	Angle	No.	Location		Wt./Type	sx-5	fps	BFS (mm)
10 x 12	5.64	Dry	0	1	1	7.62mm	180 PSP	191.7	2988	No Perforation
10 x 12	5.64	Dry	0	2	2	7.62mm	180 PSP	192.6	2974	No Perforation
10 x 12	5.64	Dry	0	3	3	7.62mm	180 PSP	192.6	2974	No Perforation
		-							-	
									-	
			1						-	
									-	
									-	
									-	
									-	
									-	
									-	
									-	
										<u> </u>
This test was	performed in a	ccordanc	e with the		United Sta	tes Test Lab	oratory	316-8	32-1600	Phone
	equirements ar			у	7447 W. 3	3rd St. N.		316-8	32-1602	Fax
	listic performan				Wichita, K	S 67205	U.S.A.	1		
DEMADKSIN										

REMARKS/NOTES:

Customer requested reference velocity @ 3000 +/- 30fps.

Sample Tested:

2120-5 Model No.: Serial No.: 3 10954 Lot No.: **JUNE 2009** DoM: 10 x 12 Size: 1.08" Thickness: Sample Description: Layer 1: E-Glass wrap Layer 2: .25" ceramic Layer 3: 0.46" Rigid Polyethylene Layer 4: E-Glass wrap Layer 5: 0.25" foam

Samples re-inspected on 3-28-11 for description accuracy, modified as needed.

Elston/Nold

EXPORT CONTROLLED DATA.

1

This document contains technical information whose export is governed by the U.S. International Traffic in Arms Regulations (ITAR). This information must not be transferred to a foreign person/entity without proper authorization of the U.S. Government. Violations may result in administrative, cill or criminal penalties.

Date Received: Via: Returned Via:	: 06/24/09 FedEx UPS			Record No: Test Date: Customer:	SAF09129 06/25/09 Safariland		
Test Condition	10					Range 4	
Temperature:	73	°F.				Muzzle to Scr. 1:	38.94 ft.
Humidity:	50	%				Screen 1 - 2:	5.73 ft.
Clay Block No.:		,,				Screen 2 - Target:	5.33 ft.
Clay Temp.:	. ' 102	°F.				Midpoint to Target:	8.20 ft.
Drops (Avg.):	102	mm	,			Target to Witness:	0 ft.
Test Spec.:	• -	Abbreviated NIJ 0101.06				Barrel Length:	26 in.
Threat Level:	Special 1					Clay Block:	5.5 in.
Condition:	Dry						

Same	le/Test Desci	ription		*****	Ammuniti	on Descript	ion	Chron	ograph	Results
Sample	Sample	Wet	0-45 Deg.	Shot	Shot	Caliber	Bullet	TIME	VELOCITY	Perforation
Size	Weight (lb.)	Dry	Angle	No.	Location		Wt./Type	sx-5	fps	BFS (mm)
10 x 12	5.65	Dry	0	1	1	5.56mm	62 gr. M855	183.7	3118	No Perforation
10 x 12	5.65	Dry	0	2	2	5.56mm	62 gr. M855	181.4	3158	No Perforation
10 x 12	5.65	Dry	0	3	3	5.56mm	62 gr. M855	183.0	3130	No Perforation
10 x 12	5.65	Dry	0	4	4	5.56mm	62 gr. M855	185.4	3090	No Perforation
10 x 12	5.65	Dry	0	5	5	5.56mm	62 gr. M855	186.1	3 <u>0</u> 78	No Perforation
10 x 12	5.65	Dry	0	6	6	5.56mm	62 gr. M855	183.0	3130	No Perforation
									-	
									-	
									-	
									-	
									-	
					1				-	
									-	
This test was	performed in a	ccordanc	e with the		United Sta	tes Test Lab	oratory	316-8	32-1600	Phone
	equirements ar			у	7447 W. 3	3rd St. N.		316-8	32-1602	Fax
	istic performan				Wichita, K	S 67205	U.S.A.			
DEMADUCINU										

REMARKS/NOTES:

Customer requested reference velocity @ 3100 +/- 30fps.

Sample Tested:

Model No .: 2120-5 Serial No .: 1 Lot No.: 10954 **JUNE 2009** DoM: 10 x 12 Size: Thickness: 1.08" Sample Description: Layer 1: E-Glass wrap Layer 2: .25" ceramic Layer 3: 0.46" Rigid Polyethylene Layer 4: E-Glass wrap Layer 5: 0.25" foam

Samples re-inspected on 3-28-11 for description accuracy, modified as needed.

Elston/Nold

EXPORT CONTROLLED DATA.

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This document contains technical information whose export is governed by the U.S. International Traffic in Arms Regulations (ITAR). This information must not be transferred to a foreign person/entity without proper authorization of the U.S. Government. Violations may result in administrative, ciil or criminal penalties.

3

Date Received: 09/03/09 Via: FedEx Returned Via: UPS

Test Conditions

Temperature:	70	°F.
Humidity:	42	%
Clay Block No.:	3	
Clay Temp.:	106	°F.
Drops (Avg.):	19	mm
Test Spec.:	Modified/	Abbreviated NIJ 0101.06
Threat Level:	Special T	hreat
Condition:	New	

Record No: PT09038 Test Date: 09/04/09 Customer: Protech

Range 3	
Muzzle to Scr. 1:	38.94 ft.
Screen 1 - 2:	5,73 ft.
Screen 2 - Target:	5.33 ft.
Midpoint to Target:	8.20 ft.
Target to Witness:	0 ft.
Clay Block:	5.5 in.
Barrel Length:	20 in.

Sample/Test Description					Ammuniti	on Descripti	on	Chron	Results	
Sample	Sample	Wet	0-45 Deg.	Shot	Shot	Caliber	Bullet	TIME	VELOCITY	Perforation
Size	Weight (lb.)	Dry	Angle	No.	Location		Wt./Type	sx-5	fps	BFS (mm)
10 x 12	5.84	Dry	0	1	1	7.62 x 39	123 MSC	242.3	2364	17
10 x 12	5.84	Dry	0	2	, 2	7.62 x 39	123 MSC	236.0	2427	24
10 x 12	5.84	Dry	0	3	3	7.62 x 39	123 MSC	233.5	2453	No Perforatio
10 x 12	5.84	Dry	0	4	4	7.62 x 39	123 MSC	235.9	2428	No Perforatio
10 x 12	5.84	Dry	0	5	5	7.62 x 39	123 MSC	240.2	2385	No Perforatio
10 x 12	5.84	Dry	0	6	6	7.62 x 39	123 MSC	236.6	2421	No Perforatio
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iis test was p	erformed in ac	cordanc	e with the		United Sta	tes Test Labo	oratory	316-83	32-1600	Phone
ecification re	quirements an	nd the res	ults properly	Ý	7447 W. 3	3rd St. N.		316-83	32-1602	Fax
flect the balli	stic performan	ce of the	listed samp	le.	Wichita, K	S 67205	U.S.A.			

WARNING – This document may contain technical data whose export is restricted by the Arms Export Control Act (Title 22, U.S.C. 2751,et. seq.) or the Export Administration Act of 1979 as amended, Title 50 U.S.C. App 2401 et. seq. Violations of these export laws are subject to severe criminal penalties.

REMARKS/NOTES:

*Plate not subjected to mechanical durability test prior to ballistic testing according to Section 6.3.4 (7). **Customer requested six impacts @ a velocity of 2350-2450 fps.

Sample Tested:

Violations may result in administrative, cill or criminal penalties.

Janpie resteu	<u>.</u>			
Manufacturer:	Protech /	Safariland		
Model No.:	2120-5			
Sample No.:	7			
Lot No.:	10954			
DoM:	JUNE 20	09		
Size:	10 x 12	in.		
Thickness:	1.10	in.		
Weight:	5.84	lbs.		
Threat Level:	3			
Sample Descri	ption:			
Layer 1: E-Glas	ss wrap		Samples re-inspected on 3-28-11 for description accuracy, modified as needed.	
Layer 2: .25" ce	ramic			
Layer 3: 0.46" R	Rigid Polye	thylene		
Layer 4: E-Glas	s wrap			
Layer 5: 0.25" fo	oam			
Landon/@rawfor	NTROLLED	DATA.	minose expert is governed by the U.S. International Traffic in Arms Regulations (ITAR).	
This inform	nation must not	be transferred to a	foreign person/entity without proper authorization of the U.S. Government.	

38.94 ft. 5.73 ft. 5.33 ft. 8.20 ft. 0 ft. 5.5 in. 26 in.

Date Received: Via: Returned Via:	08/16/10 FedEx UPS		Record No: Test Date: Customer:	BAE101596 08/18/10 BAE Syster	-
Test Condition	s				Range 3
Temperature:	75	°E.			Muzzle to Scr. 1:
Humidity:	48	%			Screen 1 - 2:
Clay Block No.:	10				Screen 2 - Targel:
Clay Temp.:	102	°F.			Midpoint to Target:
Drops (Avg.):	20.05	mm			Target to Witness:
Test Spec :	Modified/A	Abbreviated NIJ 0101.06			Clay Block:
Threat Level:	Special TI	hreat			Barrel Length:
Condition:	New	si laya da kata kata kata kata kata kata kata	 an summer and summarized and summer a supple survey of the set	9192748-01464994-1-1-246-01-10-2010-01-2010-01-2010-01-	٥٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠

Sample/Test Description					Ammunition Description				ograph	Results	
Sample	Sample	Wet	0-45 Deg.	Shot	Shot	Caliber	Bullet	TIME	VELOCITY	Perforation	
Size	Weight (lb.)	Dry	Angle	No.	Location		Wi./Type	sx-5	fps	BFS (mm)	
10 x 12	5.81	Dry	0	1	1	7.62x54R	150 FMJ	198.1	2891	No Perforation	
10 x 12	5.81	Dry	0	2	2	7.62x54R	150 FMJ	199.4	2873	No Perforation	
10 x 12	5.81	Dry	0	3	3	7.62x54R	150 FMJ	200.1	2863	No Perforation	
									-		
									-		
									-		
									-		
									-		
									-		
									-		
									-		
									-		
					-				-		
This test was p	performed in ac	ccordanc	e with the		United Sta	les Test Labo	oratory	316-8	32-1600	Phone	
specification re	equirements ar	nd the re	sults proper	ly	7447 W. 3	3rd St. N.		316-8	32-1602	Fax	
reflect the ball	istic performan	ce of the	listed samp	ole.	Wichita, K	S 67205	U.S.A.				

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Customer requested three impacts @ a velocity of 2855 +/-30 fps.

Sample Tested

Manufacturer: Safariland LLC 2120-5 Model No.: Serial No : 85 Lot No.: 0018481 Size: 10 x 12 in. Thickness: 1.110 in. Weight: 5.81 lbs. Threat Level. Special Threat DoM. JULY 2010

Sample Description: Layer 1: Ceramic (0.804" thick). Layer 2 Foam (0 212" thick).



Safariland Mr. Tom Lang 1595 East Street Pittsfield, MA 01201

May 10, 2011

Dear Mr. Lang,

Per your request United States Test Laboratory performed Ballistic Resistance Testing in accordance with Modified/ Abbreviated NIJ 0101.06. The testing was performed on Model 2120-5 plate. The projectiles used were 5.56x45mm 62SP.

The table below represents a summary of the test results. A copy of the ballistic test report is attached for your inspection. The test record numbers included in this series of tests are: **BJP11406.**

Serial Number	Shot Number	Projectile	Velocity	Penetration (mm)	
937	1	5.56x45mm 62SP	3047	5.51	
937	2	5.56x45mm 62SP	3031	20.91	
937	3	5.56x45mm 62SP	3027	None	
937	4	5.56x45mm 62SP	3075	None	
937	5	5.56x45mm 62SP	3044	None	
937	6	5.56x45mm 62SP	3110	None	

The data presented is for the samples tested only; it does not guarantee the performance of other samples of the same or similar product. The test results do not imply endorsement by United States Test Laboratory.

The test samples are being returned via UPS Ground. Should you have any questions, please feel free to call upon us.

Best regards Matt Lutz

Sr. Lab Technician

United States Test Laboratory + 7447 W. 33rd Street N. + Wichita, Kansas 67205 (316) 832-1600 + Fax (316) 832-1602 A Division of National Technical Systems

EXPORT CONTROLLED DATA.

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Date Received: 05/09/11 Via: FedEx Returned Via: UPS

Test Conditions

Temperature:	69	°F.
•		
Humidity:	40	%
Clay Block No.:	6	
Clay Temp.:	93,1	°F.
Drops (Avg.):	19.3	mm
Test Spec.;	Modified/A	Abbreviated NIJ 0101.06
Threat Level:	Special TH	hreat
Condition:	New	

Record No.: BJP11406 Test Date: 05/10/11 Customer: **BAE Systems**

Range 3

Muzzle to Screen 1:	38,94 ft.
Screen 1 - 2:	5.73 ft.
Screen 2 - Target:	5.33 ft.
Midpoint to Target:	8.20 ft.
Target to Witness:	0 ft.
Clay Block:	5.5 in.
Barrel Length:	26 in.

Sample/Test Description					Ammunit	ion Descriptio	on	Chronograph		Results	
Sample	Sample	Wet	Degree	Shot	Shot	Caliber	Bullet	TIME	VELOCITY	Perforation	
Size	Weight (lbs.)	Dry	Obliquity	No.	Location		Wt./Type	sx-5	fps	BFS (mm)	
10 x 12	5.79	Dry	0	1	TL	5.56x45mm	62 SP	188.0	3047	5.51	
10 x 12	5.79	Dry	0	2	BR	5.56x45mm	62 SP	189.0	3031	20.91	
10 x 12	5.79	Dry	0	3	TR	5.56x45mm	62 SP	189.2	3027	No Perforatio	
10 x 12	5.79	Dry	0	4	MR	5.56x45mm	62 SP	186.3	3075	No Perforation	
10 x 12	5.79	Dry	0	5	ML.	5.56x45mm	62 SP	188.2	3044	No Perforation	
10 x 12	5.79	Dry	0	6	BL	5.56x45mm	62 SP	184.2	3110	No Perforation	
	performed in ac				United St	ates Test Labo	ratory	316-83	2-1600	Phone	
	equirements an				7447 W. 33rd St. N.			316-83	2-1602	Fax	
reflect the ball	istic performanc	e of the	listed samp	le.	Wichita, k	(S 67205	U,S.A.				
NARNING	This documen	t may co	ontain tech	nical da	ta whose	evport is rost	iotod hy th		ant Contro		

document may contain technical data whose export is restricted by the Arms Export Control Act (Title 22, U.S.C. 2751, et. seq.) or the Export Administration Act of 1979 as amended, Title 50 U.S.C. App 2401 et. seq. Violations of these export laws are subject to severe criminal penalties.

REMARKS/NOTES:

*Plate not conditioned according to Section 6, Tables 2 & 3.

**Plate not subjected to mechanical durability test prior to ballistic testing according to Section 6.3.4 (7).

***Plate not lested wet according to Section 7.8.2 Armor Submersion.

Backing Material Surface Preparation (Section 4.2.5.4)

Non-planar

Ammunition Used:

Federal Premium Law Enforcement 5.56x45mm 62 gr. Bonded SP (LE223T3) @ a velocity of 3050 fps +/- 30 fps.

Sample Tested:

Manufacturer:	Protech /	Safariland, LLC,	
Model No.:	2120-5		
Serial No.:	937		
Lot No.;	0364479		
Size:	10 x 12	in.	
Thickness:	1.10	in.	
Weight:	5.79	lbs.	
Threat Level:	[]]		
1			

Sample Description:

Layer 1: E-Glass wrap Layer 2: 0.25" ceramic Layer 3: 0.46" Rigid Polyethylene Laver 4: E-Glass wrap Layer 5: 0.25" foam EXPORT CONTROLLED DATA. This document contains technical information whose export is governed by the U.S. International Traffic in Arms Regulations (ITAR). Crawford/Childerisn must not be transferred to a foreign person/entity without proper authorization of the U.S. Government

Shot Locations:

TL	Top Left
BR	Bottom Right
TR	Top Right
MR	Middle Right
ML	Middle Left
BL	Bottom Left

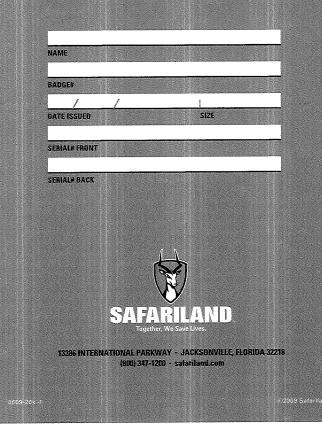
ADDITIONAL WARNINGS:

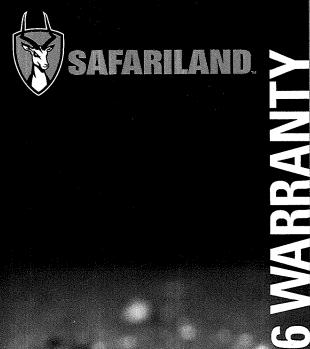
- · This ballistic-resistant Vest is intended to reduce or prevent injuries from specific threats. Body armor is not "bulletproof," and cannot protect against all threats. Impact forces also can result in serious injury or death.
- · Ballistic panels offer protection to only those areas that they cover. Strenuous movements or physical altercations may cause ballistic panels to shift on the user's body, thus affecting actual coverage. Vests that fit improperly (e.g., too long or too wide in the chest area) can develop set wrinkles in the ballistic fabric. Substantial weight gain or loss, or changes in body shape or contour, can also cause previously protected areas to become exposed. If the user has experienced a substantial weight gain or loss, he or she should immediately take their Vest to an authorized dealer for an inspection.
- · Ballistic panels are designed to defeat certain threats only if properly inserted into the outer carrier facing in the correct direction. The label affixed to the panel indicates which side is the "strike side" - meaning the side that must face outward. The user MUST ensure that the ballistic panels are properly inserted into the carrier in the proper direction. Failure to follow these instructions can result in serious injury or death.
- · Vests work by dissipating kinetic energy across the fibers of a ballistic panel - should the Vest be struck by a threat close to an edge, its ability to dissipate the energy may be negatively impacted.
- · The greater the angle at which a round strikes the Vest (opposite of a "head on" shot), the greater the possibility the round may ricochet or slide off the side of the Vest.
- · Multiple rounds striking in a tight shot pattern may weaken that area of the Vest and result in a complete penetration.
- · Unless specifically stated otherwise on the Vest's label, it is not warranted to defeat spikes, picks, knives or other sharp objects.

THANK YOU

Thank you for choosing Safariland". We know you have a tough job to do. That's why we work hard to produce the highest-quality protective systems for the law enforcement community. For more information on our Body Armor warranty, visit www.safariland.com.

Please complete the following information and retain this certificate for your records.





BodV/Altinor

EXPRESS LIMITED WARRANTY FOR SAFARILAND[™] FLEXIBLE BODY ARMOR VESTS CERTIFIED UNDER NIJ-0101.06

- Safariland warrants that its "NIJ-06" flexible body armor vests ("Vests") have been certified to comply with the National Institute of Justice's ("NIJ") Ballistic Resistance of Body Armor, NIJ Standard-0101.06 (July 2008), for the applicable NIJ threat level designated on each Vest's label. For multi-threat (i.e., ballistic and stab resistant) Vests, Safariland also warrants that the Vests have been certified to comply with the NIJ's Stab Resistance of Personal Body Armor, NIJ Standard-0115.00 (September 2000), for the applicable NIJ spike threat level designated on each Vest's label.
- 2. For a period of sixty (60) months after the date of issue, Safariland warrants that the ballistic panels of its Vests shall be free from defects in material and workmanship and shall comply with Safariland's VestCheck[™] used vest testing protocols for ballistic performance (as set forth on www.safariland.com). Vests should not be worn or used after the expiration of this warranty period (i.e., "useful life" period).
- For a period of twelve (12) months after the date of issue, Safariland warrants that the outer carriers of its Vests shall be free from defects in material and workmanship.
- 4. Vests shall be always worn in accordance with Safariland's Use & Care instructions contained in the applicable User Manual included with each Vest. The above warranties do not apply to any Vest that has been subjected to misuse, abuse, accident, neglect, unauthorized alteration, breakage, interruption, damage, improper storage or handling, or unauthorized repair or service.
- 5. The above warranties are the sole and exclusive warranties made by Safariland with respect to its Vests. They shall not be enlarged by any representations, descriptions, course of dealing, trade usage, technical advice, service, samples, models, or otherwise, nor shall they be altered or expanded by any acts, statements, or agreements of any dealer, employee, or agent of Safariland (other than by aduly authorized officer of Safariland). SAFARILAND MAKES NO OTHER WARRANTIES EXPRESS, IMPLIED, OR STATUTORY; INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.
- 6. In the event that Safariland determines that a Vest (or component) is defective during an applicable warranty period, Safariland agrees to (at its election) replace, repair, or issue a pro-rated purchase price credit for such product. All returns shall be made to Safariland's factory and must include (1) proof of issue/purchase, and (2) documentation specifying the claimed defect and all relevant supporting information. A Return Authorization Number (RA) must be obtained from Safariland prior to returning the product.

7. IN NO EVENT SHALL SAFARILAND BE LIABLE FOR ANY PUNITIVE, EXEMPLARY, OR CONSEQUENTIAL DAMAGES, ANTICIPATED OR LOST PROFITS, INCIDENTAL DAMAGES, LOSS OF TIME, OR OTHER INDIRECT LOSSES OR EXPENSES THAT ARISE FROM ANY CAUSE RELATING TO ITS VESTS, REGARDLESS OF THE FORM OF THE ACTION, WHETHER IN TORT (INCLUDING NEGLIGENCE), CONTRACT, STRICT LIABILITY OR OTHERWISE, AND REGARDLESS OF WHETHER THE COMPANY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH CONSEQUENTIAL DAMAGES. NOTWITHSTANDING ANY CONTRARY PROVISION, IN NO EVENT SHALL THE TOTAL LIABILITY OF SAFARILAND (TOGETHER WITH THE LIABILITY OF ITS OFFICERS, DIRECTORS, EMPLOYEES, AND AGENTS) EXCEED THE PURCHASE PRICE ACTUALLY PAID FOR THE VEST THAT GIVES RISE TO SUCH LIABILITY. The foregoing disclaimers are subject to any applicable laws that regulate product warranties.

SAFARILAND'S VESTCHECK" PERFORATION TESTING PROGRAM FOR USED BODY ARMOR VESTS

In order to evaluate the on-going ballistic performance of its flexible body armor vests ("Vests"), Safariland regularly conducts perforation testing of its Used Vests across a broad spectrum of models, ages, and wear categories.

Safariland tests its Used Vests in dry condition for perforations in accordance with the P-BFS test protocols as specified in NIJ Standard-0101.06, Section 7.8, at the Conditioned Armor Test Velocities (set forth in NIJ Standard-0101.06, Table 4) for the test rounds specified for the applicable NIJ threat level as indicated on the Vest's label. The test will be deemed satisfactory so long as there are no perforations of the ballistic panels.

A Used Vest is not required or expected to meet any backface signature thresholds. Backface signatures of the ballistic panels may be measured and recorded by Safariland in the conduct of its perforation testing, but such data shall be considered informational only and shall not be considered for purposes of determining whether the Used Vest passes the perforation test.

In the unlikely event of an unsatisfactory perforation test result, Safariland shall conduct a detailed review of all applicable test data and conditions, and shall implement such follow-on test protocols as may be needed to determine the scope of any potential ballistic performance issue(s) and causational factor(s) (e.g., test sample condition, environmental factors, workmanship, materials, lot consistency, model design). Implementation of the VestCheck Perforation Testing Program as regarding the ballistic performance of any Used Vest shall be determined exclusively by Safariland. Ballistic performance or other tests performed by a buyer, user, government agency, laboratory, or any other party not expressly authorized by Safariland shall not be valid for purposes of any warranty or other representations made by Safariland.

USE AND CARE WARNINGS

This flexible body armor vest ("Vest") is an integrated system consisting of an outer carrier and front and back torso ballistic panels.

FAILURE TO CLOSELY FOLLOW THESE USE & CARE INSTRUCTIONS WILL VOID ALL WARRANTIES, INCLUDING BUT NOT LIMITED TO ANY BALLISTIC PERFORMANCE WARRANTY, AND COULD LEAD TO SERIOUS INJURY OR DEATH.

DO NOT ABUSE YOUR VEST! If this Vest is heavily worn (e.g., wrinkles or rolls in the ballistic panels, open breaks in the outer carrier, heavy stains, worn threads, visible moisture, cracked seams, cover splits), regardless of its age, it shall be deemed to be abused and no longer subject to any warranties.

INSPECT YOUR VEST FREQUENTLY! Should the ballistic panel package (including without limitation any edge seal of a ballistic panel, where applicable) be broken, interrupted, cracked or damaged in any way, the Vest should immediately be taken to an authorized dealer for an inspection. Ballistic panels that are broken, interrupted, cracked or damaged may negatively impact the Vest's ballistic performance and may need to be repaired or replaced!

STORE YOUR VEST CAREFULLY! The resistance and performance of ballistic panels are known to change with time and wear, especially when exposed to extreme environmental conditions. This Vest should not be stored in places where it is exposed to high temperatures and/or in combination with high humidity for long periods of time. Exposure to such extreme environmental conditions may negatively impact the Vest's ballistic performance.

APPLICABLE TO CUSTOM-FIT VESTS: Only the original user who was custom-fit by an authorized dealer under Safariland's SizeRight[™] program should wear this Vest. Users should never allow any other person to wear his or her custom-fit Vest without it first being re-sized for the new user by an authorized dealer.

OTHER EXAMPLES OF IMPROPER USE: Replacing the ballistic panels with those from another manufacturer; placing Safariland's ballistic panels into an unauthorized outer carrier; wearing the outer carrier without inserting the ballistic panels; or inserting the ballistic panels into the outer carrier in the wrong direction. Contact Safariland's Customer Service Department if you have any questions about authorized configurations.



PROPRIETARY & CONFIDENTIAL

VIA E-MAIL

November 2, 2011

CITY MANAGER ATTN: CITY CLERK UNIFORMS, ACCESSORIES & MISCELLANEOUS 333 West Ocean Boulevard, Plaza Level EQUIPMENT (POLICE DEPARTMENT) Long Beach, California 90802

RE: INVITATION T BID – BID NUMBER PA-01408 Manufacturer's Disclosure

Dear City Clerk Uniforms:

In support of Galls Long Beach Uniform's Bid under Bid Number PA-01408, Safariland discloses the following information as requested in "SECTION F: CONCEABLE & TACTICAL BODY ARMOR" of the Specifications Section.

In regards to disclosure of any field incidents of bullet penetration of in-service ballistic panels from a round required to be stopped under NIJ Standards, Safariland confirms that there are no known incidents.

In regards to disclosure of any criminal or civil litigation involving defective body armor or fraud over ballistic materials, for the past 5 years, Safariland identifies the following:

1. In 2008, as a result of notification by DSM Dyneema that testing of Dyneema[®] SB61 product raised concerns that certain mechanical wear conditions might result in some reduction in performance over the long-term life of this product, Armor Holdings Products, LLC (n/k/a Safariland, LLC) ceased sale and delivery of vest models containing SB61 material and instituted a voluntary program to recover the affected models from the field.

Relating to SB-61, in 2008, Southern States Police Benevolent Association filed a complaint in the Fourth Judicial Circuit Court for Duval County, Florida, Case No. 2008-CA-003240, against Armor Holdings Products, LLC and several of its subsidiaries alleging sale of defective ballistic resistant body armor containing Dyneema SB-61 ballistic material. As a result of the company's voluntary recall and replacement of armor containing Dyneema SB-61, the complaint was voluntarily dismissed and the case terminated.

City Clerk Uniforms Long Beach Police Department Bid No. PA-01408 November 14, 2011 Page 2 of 2



 In 2008, in connection with US Department of Justice ("DOJ") broad review of the entire body armor industry regarding the suitability of Zylon, a ballistic material developed by Toyobo, a Japanese company, for use in body armor, Armor Holdings Products, LLC ("AHP") settled certain potential civil claims with the DOJ regarding AHP's sales of Zylon-containing bullet-resistant vests between 2000 and 2005.

Relating to Zylon, in 2008, Aaron Westrick filed under seal a complaint in the District of Columbia Superior Court, Case No. 2008 CA BSLD 1892, against numerous body armor industry manufacturers and component suppliers, including Armor Holdings Products, LLC, alleging violation of False Claims Act as related to the sale of body armor containing Zylon. In 2010, the complaint was unsealed and dismissed.

If you need any further information, please feel free to contact our Territory Manager Frank Harden at (909) 544-2958.

Regards,

Jason Brown Director, Programs & Pricing Safariland, LLC 904-485-1835 Phone jason.brown3@baesystems.com

					DATE (MM/	DD/YYYY)
ACORD CERT	FIFIC	CATE OF LIA	BILITY IN	SURA	$ \mathbf{NCE}_{10/31/2012} = \frac{10/25}{10/25}$	•
THIS CERTIFICATE IS ISSUED AS A						
CERTIFICATE DOES NOT AFFIRMATI	VELY C	R NEGATIVELY AMEND,	EXTEND OR ALTE	R THE CO	/ERAGE AFFORDED BY THE PO	DLICIES
BELOW. THIS CERTIFICATE OF INS	URANC	E DOES NOT CONSTITU	TE A CONTRACT E	BETWEEN T	HE ISSUING INSURER(S), AUTH	ORIZED
REPRESENTATIVE OR PRODUCER, AI IMPORTANT: If the certificate holder			naliau(iaa) muat ha	andarcad	IF SUBBOGATION IS WAIVED SU	biect to
the terms and conditions of the policy certificate holder in lieu of such endor	, certain	policies may require an e	ndorsement. A stat	ement on th	is certificate does not confer righ	ts to the
PRODUCER Lockton Companies, LLC-A DO		<u></u>	CONTACT NAME;			
1110 Vermont Ave. NW, Suite			PHONE (A/C, No, Ext):		FAX (A/C, No):	
Washington DC 20005			E-MAIL ADDRESS:			
(202) 414-2400			INS	URER(S) AFFOF		NAIC #
			INSURER A : ACE A	merican Ir	nsurance Company	22667
INSURED Safariland, LLC			INSURER B : Indemn	ity Insuranc	e Co of North America	43575
1314027 13386 International Parkway			INSURER C : Allianz	Global Risl	ts US Insurance Co	35300
Jacksonville FL 32218			INSURER D :			
			INSURER E :			
			INSURER F :			
		TE NUMBER: 1150				XXXXX
THIS IS TO CERTIFY THAT THE POLICIES INDICATED. NOTWITHSTANDING ANY RI	OUIREN	IENT. TERM OR CONDITION	OF ANY CONTRACT	OR OTHER I	DOCUMENT WITH RESPECT TO WH	ICH THIS
CERTIFICATE MAY BE ISSUED OR MAY	PERTAIN	I, THE INSURANCE AFFORE	Ded by the policies	S DESCRIBED) HEREIN IS SUBJECT TO ALL THE	TERMS,
EXCLUSIONS AND CONDITIONS OF SUCH	ADDLICIE	BR	POLICY EFF	PAID CLAIMS POLICY EXP (MM/DD/YYYY)		
INSR TYPE OF INSURANCE	INSR W	D POLICY NUMBER		ľ –	LIMITS EACH OCCURRENCE \$ 2.000.	000
C GENERAL LIABILITY	N	N CGL 2003460	10/31/2011	10/31/2012	DAMAGE TO DENITED	
					PREMISES (Ea occurrence) \$ 2,000, MED EXP (Any one person) \$ 10,000	
CLAIMS-MADE XOCCUR					MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 2,000,	
					GENERAL AGGREGATE \$ 8,000,	
GEN'L AGGREGATE LIMIT APPLIES PER:					PRODUCTS - COMP/OP AGG \$ 4,000,	
POLICY PRO- LOC					\$	000
A AUTOMOBILE LIABILITY	N	N ISAH 08691174	10/31/2011	10/31/2012	COMBINED SINGLE LIMIT (Ea accident) \$ 2,000,	000
X ANY AUTO					BODILY INJURY (Per person) \$ XXX	
ALL OWNED SCHEDULED AUTOS AUTOS					BODILY INJURY (Per accident) \$ XXXX	XXXX
HIRED AUTOS					PROPERTY DAMAGE \$ XXXX	XXXX
					\$ XXX	XXXX
UMBRELLA LIAB OCCUR		NOT APPLICABLE			EACH OCCURRENCE \$ XXXX	XXXX
EXCESS LIAB CLAIMS-MADE					AGGREGATE \$ XXXX	XXXX
DED RETENTION \$					\$ XXX	XXXX
B AND EMPLOYERS' LIABILITY		N WLRC46482517(AOS) WLRC46452529 (CA, M	10/31/2011	10/31/2012	X TORY LIMITS ER	
A ANY PROPRIETOR/PARTNER/EXECUTIVE N A OFFICER/MEMBER EXCLUDED?	N/A	WLRC46452529 (CA, M SCFC46452530 (WI Only	A Only) $10/31/2011$ y) $10/31/2011$	10/31/2012 10/31/2012	E.L. EACH ACCIDENT \$ 1,000.	.000
(Mandatory in NH) If yes, describe under			· /		E.L. DISEASE - EA EMPLOYEE \$ 1,000.	
DESCRIPTION OF OPERATIONS below	$ \rightarrow $				E.L. DISEASE - POLICY LIMIT \$ 1,000.	000
				1		
		ah ACORD 101 Additional Remarks	Schedule, if more ensee is	required)	L	
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHIC Evidence of Insurance	LEG (Alla	a a a a a a a a a a a a a a a a a a a	s concurre, a more space is	requireur		

CERTIFICATE HOLDER	CANCELLATION
	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
11500546 Evidence of Insurance	AUTHORIZED REPRESENTATIVE
	VI leder Conla



The #1 Choice of Departments Nationwide.

Shoei's number one status as the first choice of departments around the nation is embodied by the RJ Platinum-LE.

This helmet is the answer for the officer demanding the best. The RJ Platinum-LE is the top of the line in a lightweight, durable full-coverage helmet. Featuring Advanced Integrated Matrix Plus (AIM+), a hybrid combination of high performance organic and strong glass fibers. The result is a lightweight and sturdy shell.

Other features include:

- Adjustable top intake and rear exhaust vents allow for optimum airflow.
- A 2-layer liner allows for optimum airflow, utilizing negative pressure to exhaust hot air buildup.
- Soft and comfortable 3D liner.
- Removable/washable interior.
- Communication system compatible.
- Padded chin strap.
- Custom paint available.



SHOEI RJ PLATINUM-LE

Sizes	Solid White	Black/ White (High)	Black/ White (Low)	Cust Paint
S	04-102	04-120	04-126	04-144
М	04-103	04-121	04-127	04-145
L	04-104	04-122	04-128	04-146
XL	04-105	04-123	04-129	04-147
XXL	04-106	04-124	04-130	04-148

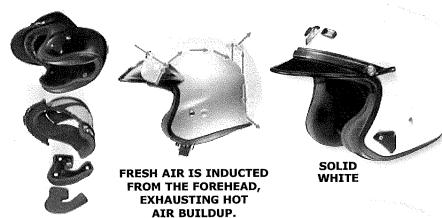
Rank band & buttons sold separately - see page 10. Badge not sold through Helmet House.

NOTE: Custom paint sales are final. Allow 4-6 weeks for delivery. Color not guaranteed.

TECHNICAL INFORMATION

Standards:	DOT-218, Snell-M2005.	
Construction:	Advanced Integrated Matrix Plus (AIM+) Shell	A
Weight:	2.86 lbs/1300 grams (approx based on Size Medium Solid)	
Packaging:	Individually wrapped, bagged boxed, 6 per master carton	l and

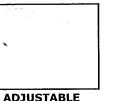
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RJ PLATINUM-LE REMOVABLE/ REPLACEABLE 3D LINER AND CHEEK PADS.



ADJUSTABLE AIR INTAKE E 5.



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