

1 powered rear loader refuse truck of substantially the same type and kind
2 purchased by the City of Lompoc and on the same terms and conditions offered to
3 the City of Lompoc, except as modified by Exhibit "A" attached to and incorporated
4 in this Agreement, for an amount not to exceed \$240,992, including tax, with a
5 10% contingency not to exceed \$24,100 for additional units, for a period extending
6 until the warranty on the LNG powered rear loader refuse truck expires. To the
7 extent that the Lompoc PO and this Agreement are inconsistent, the following
8 priority shall govern: (1) this Agreement and (2) the Lompoc PO.

9 C. Payment for the truck purchased from Contractor by the City
10 shall be made by the City on delivery to and acceptance of the truck by the City
11 and submittal of an invoice to the City. Payment is due thirty (30) days after the
12 date of the invoice.

13 D. All warranties shall accrue to the City of Long Beach.

14 E. The parties may, by mutual agreement, amend this
15 Agreement with the approval of the City's City Council.

16 2. Neither this Agreement nor any money that becomes due to
17 Contractor under this Agreement may be assigned by Contractor without the prior written
18 consent of the City Manager or his designee.

19 3. Any notice given under this Agreement shall be in writing and
20 personally delivered or deposited in the U.S. Postal Service, return receipt, and shall be
21 delivered or mailed to Contractor at the relevant address first stated above, and to the
22 City at 333 West Ocean Boulevard, Long Beach, California 90802 Attn: City Manager.
23 Notice shall be deemed given three days after deposit in the mail.

24 4. The terms appearing on the Lompoc PO are incorporated in this
25 Agreement.

26 5. Contractor shall cooperate with the City in all matters relating to self-
27 accrual of use tax. Contractor shall contact the City Treasurer for additional information
28 regarding self-accrual.

EXHIBIT “A”

McNeilus

MCNEILUS TRUCK AND MANUFACTURING CO.

401 NORTH PEPPER
POST OFFICE BOX 1588
COLTON, CALIFORNIA 92324-1588
909-370-2100

April 8, 2008

Jim Kuhl
Manager of Fleet Services
City of Long Beach
2929 E. Willow Street
Long Beach, CA 90806

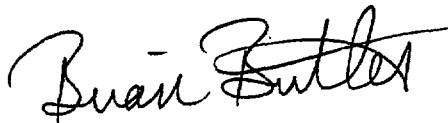
Jim,

This letter concerns bid #2452 with the City of Lompoc that closed on 8/23/07. McNeilus was awarded the bid on 10/12/07. This award was based on our quote #OC4200803310858 and we were issued purchase order #P402428.

McNeilus authorizes other municipalities, like the City of Long Beach, to purchase off of this bid award. We will allow the City of Long Beach, with McNeilus approval, to make modifications to this award as required by the city.

If you have any questions or concerns please feel free to contact Barry Torgerson or myself.

Best Regards,



Brian Butler
Refuse Sales Manager

ITEM	CITY OF LOMPOC WX64 MTM 2816 \$113,168.00	CITY OF LONG BEACH ACX42 MTM 1714 \$140,681.00	DIFFERENCE \$27,513.00
Chassis Cost	2008 Chassis	2009 Chassis	\$2,150.00
	2007 diesel engine	2010 ISL-G LNG Engine	\$10,455.00
	Allison trans 4500	Allison trans 3000	-\$4,510.00
	3 axle chassis	2 axle chassis	-\$2,987.00
	Left hand drive	RIGHT HAND DRIVE	\$750.00
	none	Methane detector	\$1,650.00
	Steel wheels	Polished Aluminum wheels	\$1,540.00
	4 year trans warranty	5 year trans warranty	\$450.00
	Painted front bumper	Chrome front bumper	\$425.00
	Diesel fuel tank	Nex Gen 119 ga LNG tank	\$17,690.00
	Cummins ISL 5 Yr. Warr.	Cummins ISL G 5 Yr. Warr	-\$100.00

Body Cost	28yd HD Rear Loader	17yd Metro Pak	
	Body only \$51,892.00	Body only \$42,056.00	-\$9,836.00
	Hot Shift PTO on trans.	Front PTO Pump	-\$1,460.00
	None	Access Door Ladder	\$811.00
	None	Full Length Hose Cover	\$379.00
	Star Strobe light System	Peterson Smart Light System	\$204.00
	None	Roadway Sign Brackets	\$270.00
	None	2 Perkins Tippers D6226	\$11,031.00
	None	Hopper Liner 3/16"	\$1,190.00
	None	Rear to Cab Buzzer	\$433.00
	1 year Body Warranty	3 year Body Warranty	\$2,936.00
	None	AVL System	\$2,200.00
	None	Air Controls Right Front of Body	\$1,250.00
	None	Vulcan On Board Scale System	\$3,144.00
	Container Stop, Fixed	None	-\$811.00
	Hydraulic Filter w/Cab Ind.	None	-\$154.00
	Wrap Hydraulic Hoses	None	-\$551.00
Freight Delivered	Drive Away Service	LoBoy Trailer to California	
	\$4,095.00	\$7,135.00	\$3,040.00
Total Difference			\$41,589.00



McNeilus Truck and Manufacturing Co.

401 North Pepper
PO Box 1588
Colton, CA 92324
9093702100

Apr 07, 2008

City of Long Beach, CA
Attn: John Seevers
2929 E. Willow St
Long Beach, CA 90806
USA

Thank you for the opportunity to provide this proposal.

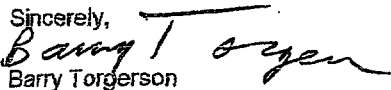
We are pleased to submit the attached quotation for (1) Model 1714: Metro Pak 17 yard.

This quotation is comprised of several documents, including:

Cover Letter
Quote Form
Specifications
Terms And Conditions

To place an order in response to this quotation, or if you have any questions, please contact me. We look forward to hearing from you.

Sincerely,


Barry Torgerson

Sales Rep
401 North Pepper
PO Box 1588
Colton, CA 92324
Phone: 9093702100
Fax: 9093700739
Email: btorgerson@mcneilusco.com



An Oshkosh Corporation Company

McNeilus Truck and Manufacturing Co.
401 North Pepper
PO Box 1588
Colton, CA 92324
9093702100

Quote Number: 0C4200803310858 Rev: 0 Config: N21/8

Catalog: 08.03.20A

Model 1714: Metro Pak 17 yard

Printed: 4/7/2008

Quoted/Sold To:

FOB:

City of Long Beach, CA 2929 E. Willow St Long Beach, CA90806 USA Attn: John Seevers	Whittier CA 90601
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Total Configured Price	\$206,405
Surcharge	0
Specials	6,594
FET	0
Freight	6,690
Extended Warranties	2,936
Miscellaneous	0
Sales Tax	0
Total Unit Price	\$222,625
Quantity	1
Extended Price	\$222,625
Required Down Payment	\$0

Quantity Discount

Pricing includes all applicable discounts for quantity quoted. Change of quantity ordered may result in revision of price.

Freight Charges

Freight charge is estimated based upon fuel cost at the time of quotation. The charge is subject to change at the time of delivery.

Taxes

No state or local taxes are included in the prices quoted herein. Any applicable state and local taxes must be added to these prices and paid directly by the purchaser.

Specifications

All specifications are subject to change without notice. Several factors beyond the control of the chassis OEM or McNeilus may result in the substitution of components of equal or greater quality.

Special Options

Special options are subject to Engineering application approval.

Terms & Conditions

This quotation assumes and is subject to the standard terms and conditions of McNeilus Truck and Manufacturing Co. and Oshkosh Truck Corporation, including limitations of warranty.

Payment Terms

Net 30

Acceptance

This quotation is valid until 04/30/2008.

Any order is contingent upon acceptance by McNeilus Truck and Manufacturing Co.

By signing and returning this document, you are indicating that you have read and approved the above specification.

Please return this signed quotation and down payment to your McNeilus representative.

If you have any questions, please feel free to contact us.

Authorized Signature Date



An Oshkosh Corporation Company

McNeilus Truck and Manufacturing Co.
401 North Pepper
PO Box 1588
Colton, CA 92324
9093702100

Quote Number: 0C4200803310858
Rev: 0

Catalog:08.03.20A
Printed:4/7/2008

Chassis Type: SPECIAL
Chassis Specification: 08 PASW4 - Autocar WX42 Spec

Special Order Chassis:

This quotation includes a special order chassis, described by a separate document attached to this proposal.



An Oshkosh Corporation Company

McNeilus Truck and Manufacturing Co.
 401 North Pepper
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 Colton, CA 92324
 9093702100

Quote Number: 0C4200803310858
 Rev: 0

Catalog:08.03.20A
 Printed:4/7/2008

Other Chassis Features:

Configuration

LNG	Fuel Type	LNG Fuel (Handling Surcharge)
CS	Steering	Curb Side Seated Steering

Modifications

Y	Programming	Programming: Enable Throttle Advance
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Summary

N	Camera Cables	No Camera Cables Installed
07CUM	Engine	Cummins, 2007 Emissions
DC	Mount Location	Dodge Center
FRONT	PTO Type	Front
5	Safety	Fire Extinguisher in Cab, 5 lb.
Y	Safety	Triangle Safety Kit
ELECT	Throttle Type	Electronic
A3	Transmission	Allison 3000 RDS

McNeilus Body Features:

Body

17MP	Capacity	17 yd Metro Pak Rear Loader
Y	Cover, Hose	Full Length Hose Cover
STD	Floor	Standard Floor (3/16) AR200
FLD	Ladder	Access Door Ladder, Fold-Up with Shut Down
Y	Miscellaneous	Utility wire deflector
	Model	Model 1714: Metro Pak 17 yard
LH	Side Access Door	Door Hinged Forward, Streetside

Cameras

RC	Backup	Backup Camera, Center of Tailgate
CVC23060	Make/Model	Intec CVC230SXL, 6" Monitor
CD	Monitor	Monitor Mount Between Seats
	System Info	Intec CVC230SXL, 6 in. Monitor, 1 Cameras

Commercial

EXT	Bumper Pads	Bumper Pads Bolted to Extension Then to Tailgate
32	Container Tipper	Container Tipper with 32 inch arms
CS	Container Tipper	Curbside Controls



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2	Miscellaneous	Rollers, Two (2)
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Hydraulics

PLUG	Filtration	Hydraulic Filter, Parker
GEAR	Pump	Hydraulic Pump, Gear Type
SS	Tank	Hydraulic Tank Mounted Streetside

Lighting

Y	Body, Mid	Mid-Body Turn Arrow
2	Hopper	Hopper Work Lights: 2
BOTH	Reverse	Reverse Lights, 4 inch dual in lower and upper tailgate
TG	Smart Lights	Smart Lights, (4), 4" on Tailgate
Y	Tailgate	Assist Lights, Backup Camera
LEDT	Type, General	LED, Trucklite (where applicable)

Miscellaneous

MTM	Other	Mudflaps, Front: Black w/McNeilus Logo
MTM	Other	Mudflaps, Rear: Black w/McNeilus Logo
TG	Other	Rear Mudflaps Mounted on Tailgate
BOX	Other	Cab box between seats
ECCO	Safety	Ecco Dual Tone Back-up Alarm
31	Signage	Brackets Only for 32 in. High Side Mounted Signs

Paint

FILE	Category	Layout on file
1M	Configuration	One color
Y	DOT Tape	Yes
ES	Miscellaneous	English/Spanish Decals and Markings

Residential

BOTHM	Cart Tipper	Manual Linkage, Curbside and Streetside
BOTH	Cart Tipper	Location: Curbside and Streetside
D6226	Cart Tipper	Cart Tipper Model: Perkins D6226 (Qty 2)
RECESSED	Cart Tipper	Recessed Mount
TIPPER	Cart Tipper	Tipper(s) to be installed by MTM

Slide/Sweep

CS	Controls	Standard Linkage Curbside
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An Oshkosh Corporation Company

McNeilus Truck and Manufacturing Co.
401 North Pepper
PO Box 1588
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9093702100

Quote Number: 0C4200803310858
Rev: 0

Catalog:08.03.20A
Printed:4/7/2008

Tailgate

CS	Controls	Throttle Advance, Curbside
BOTH	Controls	Rear-to-Cab Buzzer, Curbside and Streetside
80	Guides/Latches	Guide Width: 80 inches
Y	Guides/Latches	Guides and Latches: Yes
METRO	Guides/Latches	Metro-Pak Style
3/16	Hopper	Liner, 3/16 inch AR200
METRO	Load Edge	Metro-Pak Load Edge
Y	Miscellaneous	TG/Ejr Valve Throttle Adv
TURN	Miscellaneous	Turnbuckle Lock
STDHT	Miscellaneous	Standard Tailgate Steps
	Type	Metro

Special Features and Options:

A005-011V-SP10-C9FN-V1061	AVL SYSTEM-NOT INSTALLED
R005-0S0Q-0P10-C90V-V0062	AIR CONTROLS RIGHT HAND FRONT SIDE
R005-F0BU-JP20-C9K3-V2062	VULCAN ADVANCED ON BOARD SCALES

Extended Warranties:

Body	3 Year RL Body Warranty
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Options Available at Additional Cost (not included in quoted price):

Additional Notes:



McNeilus Truck and Manufacturing Company
HIGHWAY 34 EAST
POST OFFICE BOX 70
DODGE CENTER, MINNESOTA 55927
507-374-6321

Terms and Conditions of Sale Including Limitations of Warranty

Order Placement. All goods and services furnished by McNeilus are governed by these Terms and Conditions of Sale. Placement of order by Buyer shall be in accordance with then current McNeilus procedure. Acceptance by McNeilus of order from Buyer is expressly conditioned upon Buyer acceptance of these Terms and Conditions, including those on the face of the order acceptance, and any provisions of Buyer order or other communication in conflict with these Terms and Conditions are expressly rejected. Stenographic and clerical errors are subject to correction. No additions or modifications shall be valid unless confirmed in writing by McNeilus. McNeilus may supplement or alter these Terms and Conditions of Sale, issue product and/or sale policy announcements, or the like, but no such publication shall supersede any of these Terms and Conditions of Sale. McNEILUS IS NOT BOUND TO FURNISH ITS GOODS OR SERVICES EXCEPT IN ACCORDANCE WITH THE TERMS OF ITS ORDER ACCEPTANCE FORM.

Cancellation. Buyer may cancel the order, in whole or in part, by written notice any time, provided the Buyer pays: a) the cost, including installation and removal costs, of any equipment purchased by McNeilus prior to cancellation for the purpose of filling Buyer order and not usable by McNeilus for making other goods it then manufactures; b) the quoted price for all goods finished and ready to ship, and c) other reasonable costs (including but not limited to the cost of raw materials and goods still in the process of manufacture but unfinished at the time of cancellation) which McNeilus may have incurred in the performance of the order. Notice of cancellation is not effective until received by McNeilus at its corporate address (Highway 34 East, P.O. Box 70, Dodge Center, MN, 55927, U.S.A., ATTN: VP-Finance). If Buyer elects to cancel the order in part, McNeilus may, at its option, within a reasonable time thereafter, cancel the entire order by written notice. If Buyer elects, upon payment of costs of equipment, quoted prices of goods finished and ready to ship and/or costs of raw materials, it may take delivery of the same as provided below.

Price/Delivery. Unless otherwise provided by our quotation or agreed by us in writing, price and delivery terms shall be: a) Trucks and Truck Chassis - ex factory shipping point; and b) Parts - FOB shipping point. All applicable taxes shall be for the account of Buyer. Unless otherwise agreed in writing, we will select the route and manner of shipment, reserve the right to make delivery in installments when necessary, to invoice each installment separately and to expect payment for each installment within our selling terms. All risk of loss shall pass to the Buyer at the point and time of delivery set forth in this paragraph. Prices for goods shall be those in effect on the date of invoice unless otherwise provided by our quotation or agreed to in writing by McNeilus. If McNeilus shall fail to make delivery, or Buyer to accept delivery, according to the agreed upon delivery schedule, the other party may cancel the then remaining balance of the order unless the delay is an excusable delay. Prices are good for only quantities indicated. If shipment or any other act or condition affecting payment for the goods or any part of them shall be delayed on account of Buyer, payment shall be due as if shipment had been made. A reasonable storage charge may be made and such storage shall be at the risk of Buyer.

Payment/Credit/Security. All payments shall be made in US dollars. Payment shall be due upon delivery or as otherwise provided by our quotation, order acceptance, invoice or other writing. We reserve and by its order Buyer grants a security interest in all goods wherever located until payment has been received, and Buyer will promptly execute and deliver documents provided by Seller to perfect such security interest. All orders received are subject to credit approval. Buyer agrees to submit to McNeilus those items reasonably requested in order to establish Buyer credit. McNeilus shall be entitled to charge interest for payments made not in accordance with the stated or agreed upon terms of payment at the stated rate or the highest rate permitted by law, whichever is lower. Whenever McNeilus in good faith deems itself insecure, it may: Cancel any outstanding orders with Buyer and/or hold production/shipment of any unfilled orders, modify or revoke its extension or credit to Buyer, reduce any unpaid debt by enforcing its security interest (and proceeds therefrom); and take any other steps permitted by law and necessary or desirable to secure McNeilus with respect to Buyer payment of goods and services furnished or to be furnished. Buyer will pay McNeilus actual costs of collection incurred, including reasonable attorney fees if McNeilus is required to commence any suit or proceeding for collection of any delinquency. Certificates of Origin for a Vehicle shall be released to Buyer only upon receipt of payment in full by McNeilus unless otherwise agreed upon in writing. Buyer shall permit McNeilus at any reasonable time to make audits of its collateral, including records of shipments, sales, and payment. McNeilus may demand immediate payment for trucks, chassis or parts shipped from Buyer location for which payment has not been received in accordance with agreed payment terms. Buyer shall have no right of offset against amounts owed to McNeilus.

Acceptance. Goods furnished or services performed by McNeilus in all events will be deemed to have been accepted within thirty (30) days after receipt by Buyer, unless rightfully rejected within such period by written notice to McNeilus, by Certified Mail, Return Receipt requested, setting forth all of the defects upon which the rejection is claimed. Claims for factory damage or shortages shall not be considered unless made in writing within ten (10) days after receipt of the goods and accompanied by reference to our bill of lading and invoice numbers. Claims for damage or shortage in transit must be filed by Buyer against carrier unless shipping costs are prepaid. Defective goods shall be held for McNeilus inspection or disposition.

Limited Warranty. Disclaimer. McNeilus warrants that all new and unused goods furnished by McNeilus are free from defect in workmanship and material as of the time and place of delivery by McNeilus in accordance with its Standard Limited Warranty in effect at the date of contract formation. Our obligation under this Limited Warranty is subject to the following qualifications: a) McNeilus or its authorized Dealer shall have been notified of such claimed defect within thirty (30) days of its discovery or such later date as is specified in the Standard Limited Warranty; b) the vehicle shall have been subject only to proper use normal for similar vehicles; and c) it shall have been regularly maintained and serviced in accordance with the Manufacturer Service Manual. No defective part may be returned to the factory without our prior written consent, or that of our authorized representative. Any return must be with transportation prepaid, which may be refunded at the discretion of McNeilus. The Standard Limited Warranty for the goods is incorporated herein by reference. It is the exclusive warranty given by McNeilus. McNEILUS HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY IMPLIED WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE, notwithstanding any knowledge of McNeilus regarding the use or uses intended to be made of goods, proposed changes or additions to goods, or any assistance or suggestions that may have been made by McNeilus personnel.

Buyer Remedies. At its option, McNeilus will repair or replace nonconforming goods, or allow a credit for the replacement price of parts.

Exclusions of Incidental and Consequential Damages. In no event shall McNeilus be liable for any incidental, special, indirect, or consequential damages, whether resulting from non-delivery or from negligence of McNeilus or other tort. This exclusion applies regardless of whether such damages are sought for breach of warranty, breach of contract, negligence, or strict liability in tort or under any other legal theory.



McNeilus Truck and Manufacturing Company
HIGHWAY 34 EAST
POST OFFICE BOX 70
DODGE CENTER, MINNESOTA 55927
507-374-6321

Terms and Conditions of Sale Including Limitations of Warranty (Continued)

Excusable Delay. We shall not be responsible nor deemed to be in default on account of delays in performance due to causes which are beyond our control and not occasioned by our fault or negligence and which make our performance impracticable, but not limited to civil wars, insurrections, strikes, riots, fires, storms, floods, other acts of nature, explosions, earthquakes, accidents, any act of government, delays in transportation, inability to obtain necessary labor supplies or manufacturing facilities, allocation regulations or orders affecting materials, equipment, facilities or completed products, failure to obtain any required license or certificates, acts of God or the public enemy, failure of transportation, epidemics, quarantine restrictions, failure of vendors (due to causes similar to those within the scope of this clause) to perform their contracts or labor troubles causing cessation, slowdown, or interruption of work provided such cause is beyond our reasonable control.

Indemnification. Buyer shall indemnify and hold McNeilus harmless from any and all damages or injury of any kind or nature whatsoever (including, but without limitation, personal injury and death) to all property and persons caused by, resulting from, arising out of or occurring in connection with Buyer sale, installation or use of goods sold or supplied by McNeilus and not caused by the negligence of McNeilus, its employees or agents, or arising out of defects in any such goods.

No Waiver. The failure of McNeilus upon knowledge of any default or violation by Buyer of any of the Terms and Conditions of this agreement to enforce its rights or remedies shall not be construed as a waiver of such default or violation, or of any provision hereof, or of any of its rights or remedies.

Equal Opportunity Employment. We are an Equal Opportunity Employer and have an Affirmative Action Plan on file. We comply with Executive Order No. 11246 dated September 24, 1965 and the Federal Occupational Safety and Health Act of 1970 along with all subsequent amendments. We comply with all other applicable federal, state, and local laws, regulations and ordinances and agree upon request to furnish Buyer a certificate to such effect in such form as is acceptable to both parties.

Entire Agreement and Governing Law. Except as otherwise agreed in writing, this constitutes the entire agreement between us, superseding all prior quotations and understandings, oral or written. Any questions concerning the validity, interpretation or effects of this Agreement are governed by the laws of the State of Minnesota. The rights and obligations of the parties hereunder shall not be governed by the provisions of the 1980 United Nations Convention on Contracts for the International Sales of Goods.

Export Laws. If applicable, performance is subject to U.S. export laws and regulations. Our failure to perform due to such laws and regulations shall not constitute a breach of this agreement.

Prepared By RON CREIGHTON
 Quots Id : ACX42 REL 3/11/08
 Phone : 562-447-1515
 Quote Number: Q0007490

Prepared For
 MCNEILUS / CITY OF LONG BEACH

Vehicle Specification

			Front Weight	Rear Weight
AUTOCAR TRUCKS				
S 0040001	MODELS	ACX42	9,895	3,021
O 5000002	CAB SHELL	SINGLE RIGHT HAND DRIVE CAB	0	0
O 100U001	CUSTOMER TYPE	MUNICIPAL	0	0
SOLUTION				
O C01004	APPLICATION	REFUSE - TRANSFER STATION	0	0
O C02003	BODY TYPE	REAR END LOADER	0	0
O C03002	TERRITORY	WEST COAST	0	0
A C04003	BODY COMPANY	McNeilus	0	0
O C06303	BODY STYLE	MCNEILUS METRO	0	0
O C05017	BODY CAPACITY	17 YARD	0	0
O D010160	FRONT GAWR	16000 LBS	0	0
A D020290	REAR GAWR	29,000 LBS (brake limited)	0	0
A D100450	GVWR	45,000 LBS	0	0
VEHICLE ADAPTATION				
S 114010	COUNTRY OF USE	UNITED STATES STD MARKET ADAPTATION	0	0
ENGINE				
O 1010026	ENGINE ASSY	ISL G '07,320 HP @ 2200/1000 LB-FT, CUMMINS-WESTPORT	30	0
O 4460003	FUEL TYPE	LIQUIFIED NATURAL GAS	0	0
O 972A003	SPECIAL EMISSION CERTIFICATION LABELS	NATURAL GAS-NO LABEL REQUIRED	0	0
ENGINE EQUIP				
O 122002	PTO-ENGINE FRONT	ADAPTER FOR SPICER 1350	29	-3
S 128071	ENGINE CONTROL SPECIFICATIONS	DEFAULT SPECS	0	0
A P010060	VEHICLE GOVERNED SPEED LIMIT	SPEED LIMIT 60MPH (limited by prop shaft calcs)	0	0
S P020001	ENGINE IDLE SHUT DOWN	ENGINE IDLE SHUT DOWN ENABLED (5 MINUTES)	0	0
S P030001	CRUISE CONTROL PARAMETER	CRUISE CONTROL ENABLED	0	0
S 132034	ENGINE PROTECT SYSTEM/WARNINGS	AUDIBLE/VISUAL ALARM/LOP, HT, LWL	0	0
O 170104	FILTER-FUEL	NATURAL GAS FUEL CLEANER	0	0
S 174V98	FUEL HEATER	NO HEAT EXCHANGER PROVIDED	0	0
S 1750001	ENGINE OIL	STANDARD ENGINE OIL	0	0
S 208014	FAN & DRIVE-ENGINE	FAN CLUTCH, ON/OFF	0	0

Prepared By RON CREIGHTON
 Quote Id : ACX42 REL 3/11/08
 Phone : 562-447-1515
 Quote Number: Q0007490

Prepared For
 MCNEILUS / CITY OF LONG BEACH

S 2090001	RADIATOR COOLANT	EXTENDED LIFE COOLANT	0	0
O 2200002	AIR CLEANER	15" ONE STAGE EPG CLEANER W/SAFETY ELEMENT DONALDSON	3	0
O 226002	AIR INTAKE RAIN CAP	CHROME PLATED HOOD TYPE	0	0
O 227001	AIR INTAKE PRECLEANER	DONALDSON	24	0
O 230103	MUFFLER SYSTEM	SINGLE VERTICAL-LEFT HAND SIDE	70	5
O 231001	EXHAUST SHIELDS	STAINLESS STEEL VERT MUFF SHIELD-SINGLE	6	0
S 2320001	EXHAUST STACKS	STAINLESS STEEL VERTICAL - SINGLE	0	0
S 234001	EXHAUST RAIN CAP	SINGLE	0	0
O 438998	FILTER-FUEL, ADDITIONAL	NO ADDITIONAL FUEL FILTER PROVIDED	-3	0
S 5300001	ENGINE/EXHAUST COVER	ALUM TURBO/EXHAUST PIPE DEBRIS SHIELD	0	0
S 700026	AIR COMPRESSOR	CUMMINS WABCO 18.7 CFM COMPRESSOR	0	0
O 8020002	ALTERNATOR	LEECE NEVILLE 12V 200 AMP 4900	5	0
O 810092	BATTERY	3 JOHNSON CONTROL 31ECL 12V 2850CCA	7	3
O 8200003	STARTING MOTOR	DELCO REMY 12V 39 MT W/OCF	0	0

TRANSMISSION

S 2580003	VOCATION	RDS REFUSE - VOC 400-XXX	0	0
S 269022	CONTROL MODULE (ELECT)	REFUSE W/ AUTO-NEUTRAL GRP105, VP142	0	0
O 2700011	TRANSMISSION	ALLISON 4GC 3000 RDS 5 SPEED	-324	-59
S 284016	TRANSMISSION CONTROLS	ALLISON PUSHBUTTON CONTROLS	0	0
S 286005	COOLER-TRANSMISSION OIL	OIL TO WATER TYPE	0	0
S 290003	TRANSMISSION OIL FILL/CHECK	OIL FILL TUBE / DIPSTICK W/ LEVEL SENSOR	0	0
S 292004	TRANSMISSION LUBRICANT	TRANSYND SYNTHETIC AUTO TRANS FLUID	0	0
S 300011	DRIVESHAFT-MAIN	SPICER 1760HD HALF ROUND	0	0

FRONT AXLE

O 3700004	FRONT AXLE	MERITOR MFS-16 STEER AXLE, 16000# RATING	-35	0
O 371008	FRONT SUSPENSION	7500 LB FLA TLEAF 16,500 GROUND CAPACITY	0	0
S 371T98	SUSPENSION, FRONT AUX	NO AEON AUX LOAD CUSHION PROVIDED	0	0
S 373002	SHOCK ABSORBERS-FRONT	DOUBLE ACTING SINGLE - HEAVY DUTY	0	0
O 374002	FRONT AXLE LUBRICANT	SYNTHETIC,DANA SPICER EP75W90,OR EQUIV	0	0
S 387003	POWER STEERING RESERVOIR	FOUR QUART REMOTE MOUNTED	0	0

REAR AXLE

Prepared By RON CREIGHTON
 Quote Id : ACX42 REL 3/11/08
 Phone : 562-447-1515
 Quote Number: Q0007490

Prepared For
 MCNELUS / CITY OF LONG BEACH

O 330328	REAR DRIVE AXLE-SINGLE & TANDEM	ARVIN MERITOR RS30-185 30,000 LB	0	137
O 331614	REAR DRIVE AXLE RATIO	6.14	0	0
O 339002	REAR AXLE LUBRICANT	SYNTHETIC	0	0
O 350338	REAR SUSPENSION	REYCO 102CC 31000 LB GROUND CAPACITY	0	210
O 358001	TORQUE RODS	LONGITUDINAL ONLY - RUBBER BUSHED	0	0

BRAKES

O 729003	AIR LINES-PARKING BRAKE, CHASSIS	WORK BRAKE; YELLOW VALVE ACTIVATED	5	5
S 741047	BRAKE CONTROL SYSTEM	BENDIX ABS	0	0
O 7510005	BRAKES-FOUNDATION, FRONT AXLE	DANA ES 16.5X7 REFUSE	29	0
S 754009	BRAKE SLACK ADJUSTERS-FRONT AXLE	ARVIN MERITOR AUTOMATIC	0	0
S 901001	BRAKE DRUM-FRONT	CAST IRON	0	0
O 7610006	BRAKES-FOUNDATION, REAR AXLE	DANA 16.5X8.62 REFUSE	0	21
S 764012	BRAKE SLACK ADJUSTERS-REAR AXLE	ARVIN MERITOR AUTOMATIC-SINGLE AXLE	0	0
O 765998	DUST SHIELDS - REAR BRAKES	NO REAR AXLE DUST SHIELDS PROVIDED	0	-1
S 781011	BRAKE CHAMBERS-PARKING, TYPE/VENDOR	CAM TYPE M/GM STOPGARD (2)	0	0
S 910001	BRAKE DRUM-REAR	CAST IRON	0	0

CHASSIS

O 400143	WHEELBASE	143 INCHES	-104	-129
S 402038	FRAME-REAR OVERHANG	38"	0	0
O 403011	FRAME RAILS	3/8" VARIABLE DROP STEEL, EXT A	-28	0
O 4090001	FRAME CROSSMEMBER-CENTER	7-PIECE STEEL W/ ALUM BOC X-MEMBER	22	118
O 4100001	MISC TSO OPTIONS	KEEP LH RAIL CLEAR	0	0
O 411012	FRAME CROSSMEMBER-END CLOSING	STEEL CHANNEL MEMBER-IF REQUIRED	0	0
S 4120002	FRAME BOLTS	HUCKSPIN RR SUSP & CROSSMEMBERS	0	0
O 430800	FUEL TANK-LEFT	ALTERNATE FUEL ENGINE-NO LH TANK	-29	-59
O 431800	FUEL TANK-RIGHT	ALTERNATE FUEL ENGINE-NO RH TANK	0	0
O 431T002	FUELTANK MOUNTING RHS	FUEL TANK MOUNTED RHS OTHER THAN STD - SPECIFY	0	0
O 431U003	FUEL TANK MOUNTING HEIGHT RHS	FUEL TANK SPACED 2, DROPPED 2	12	0
O 436023	FUEL LINES	STAINLESS STEEL FOR CNG OR LNG	0	0

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O 4410002	FUEL TANK STRAP/ SUPPORT RIGHT	26 INCH J-BRACKET W/SS STRAP-LNG QTY 3	45	45
O 460002	BUMPER-FRONT	CHROMED STEEL	0	0
S 480002	TOWING DEVICE-FRONT	TWO REMOVABLE TOW PINS	0	0
O 711003	AIR TANK-BRAKE	LIGHTWEIGHT TANKS FOR SINGLE AXLE	-8	-17
O 711U06	AIR TANK MOUNTING	AS MANY TANKS IN RAIL AS POSSIBLE	0	0
S 713023	AIR DRYER	BENDIX ADIP W/HEAT	0	0
O 713T003	AIR DRYER MOUNTING LOCATION	AIR DRYER MTD OUTSIDE RAIL, RHS	0	0
O 715009	WET TANK DRAIN	BENDIX DV-2 AUTOMATIC WITH HEATER	1	1
O 715T003	AIR RESERVOIR DRAIN SYSTEM	CENTRAL MANIFOLD W/ PETCOCKS	2	2
S 724001	AIR LINES-CAB	SAE J844 NYLON TUBING	0	0
S 728001	AIR LINES-MAIN, CHASSIS	SAE J844 NYLON TUBING	0	0
O 7380002	EMERGENCY AIR SYSTEM CHARGING	SINGLE GLADHAND, FRONT BUMPER MTD	1	0
O 8120007	BATTERY BOX	STEEL BOX W/ ALUM LID, 3 BATTERY, LHS	-10	0
S 812T01	BATTERY BOX POSITION	BOX LOCATED AS FAR FWD AS POSSIBLE	0	0
O 812U008	BATTERY BOX HEIGHT	TOP OF BATTERY BOX 10.5" BELOW TOP OF RAIL	10	0
S 8140001	BATTERY SHUT-OFF SWITCH	BATTERY SHUT OFF W/ LOCK OUT	0	0
O 8740001	WIRING, BODY INTERFACE	BODYBUILDER JUNCTION BOX @ BOC	6	0
O 892009	BACKUP ALARM	ECCO RMS 917 WITH MOTION DETECTOR	0	2

CAB EXTERIOR

S 4510001	STEP-CAB ACCESS, CAB MOUNTED	DUAL SELF CLEANING CAB ENTRANCE STEPS	0	0
S 462004	MUD FLAPS-FRONT WHEEL	FRONT FLAPS	0	0
S 502001	CAB DOORS	STEEL	0	0
O 502T03	DOOR CHECK STRAPS	L.H. & R.H. DOOR CHECK STRAP	2	0
O 512010	POWER WINDOWS	DUAL POWER WINDOWS	8	2
S 622003	MIRRORS-DUAL WEST COAST	STAINLESS STEEL	0	0
O 6190001	MIRROR ARMS	SHORT ARM RETRACT, STAINLESS STEEL	0	0
O 6230005	MIRRORS-AUXILIARY	TWO 8" CONVEX, ONE ABOVE, ONE BELOW, EACH SIDE	3	0
O 6180002	DOWN VIEW MIRRORS	SINGLE DOWN VIEW MIRROR, LH SIDE	0	0
S 630026	HORN-AIR	PAINTED TWIN MOUNTED UNDER CAB	0	0
S 631001	HORN-ELECTRIC	SINGLE	0	0
O 661002	CAB TILT MECHANISM-C.O.E.	HYDRAULIC TILT WITH AIR ASSIST	20	0

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O 6720004	GRILLE	CHROMED AUTOCAR GRILLE	0	0
S 675001	GRILLE EQUIPMENT	BUG SCREEN MOUNTED BEHIND GRILLE	0	0
S 6910001	FENDER EXTENSIONS-FRONT	IMPACT RESISTANT POLY FENDER	0	0

CAB INTERIOR

S 3800001	STEERING WHEEL	16" DIA. WHEEL, 2 SPOKE	0	0
S 520234	SEAT-DRIVER	NATIONAL CUSH II LOW BACK, AIR RIDE	0	0
S 521110	SEAT-PASSENGER	FIXED TYPE, LOW BACK	0	0
S 526014	SEAT INSERT	BLACK CORDURA	0	0
S 538001	CARPET & MAT	MAT WITH FOAM BACK	0	0
S 5390001	CAB INTERIOR	AUTOTUFF INTERIOR UPHOLSTERY	0	0
S 5930001	ASH TRAY	ASHTRAY MTD IN CONSOLE	0	0

CAB CLIMATE CONTROL

O 060001	CAB TEMPERATURE SYSTEM	AIR COND INTEGRAL WITH HEATER/DEFROSTER	138	-27
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GAUGES & INSTRUMENTATION

S 0570002	INSTRUMENTS SALES PKG	05 STANDARD GAUGES	0	0
S 1430001	TRUCK ELECTRICAL CONTROL MODULE	VANSCO ELECTRICAL CONTROL MODULE W/ NO MONITOR	0	0
O 1440001	DRIVER INFORMATION CENTER	DATA DISPLAY WITH OPTIONAL GAUGES	0	0
S 1360001	TACHOMETER/RPM TACHOGRAPH	ELECTRONIC TACHOMETER WITH HOURMETER	0	0
O 1390001	GAUGE-ENGINE OIL TEMPERATURE	ELECTRONIC ENGINE OIL TEMPERATURE	0	0
S 225009	AIR INTAKE RESTRICTION INDICATOR	GRADUATED, AIR CLEANER MOUNTED	0	0
O 2880001	GAUGE-TRANSMISSION OIL TEMPERATURE	ELECTRONIC TRANSMISSION OIL TEMP.	0	0
O 3190001	PTO CONTROLS	PTO ELECTRIC CONTROL SWITCH	1	0
O 3360001	GAUGE-REAR AXLE LUBE TEMPERATURE	ELECTRONIC REAR AXLE LUBE TEMP. - SINGLE	0	0
O 8040001	VOLTMETER/AMMETER	ELECTRONIC VOLTMETER	0	0

LIGHTING

S 836005	LAMPS-HEAD	SINGLE ROUND HALOGEN	0	0
S 8410002	LAMPS-TURN SIGNAL -FRONT	LED FRONT TURN SIGNALS	0	0
S 8440003	SWITCH-TURN SIGNAL & FLASHER	SELF-CANCELING TURN SIGNALS	0	0
S 8510002	LAMPS-MARKER	AMBER LED ROOF MARKERS	0	0
S 859001	LAMPS-RUNNING	DAYTIME	0	0
O 867015	LAMPS-EMERGENCY WARNING	SWITCH WIRED(12GA) FOR BEACON LIGHT	1	0
S 8700001	CIRCUIT PROTECTION DEVICE	AUTO CIRCUIT BREAKERS	0	0

RADIO/MISC

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O 5090001	KEY & LOCK SETS-IGN/DOORS	2 ADDITIONAL KEYS PER TRUCK (4 TOTAL)	1	0
O 5900002	RADIO	AM/FM / CD STEREO, ROOF MTD	13	-4
O 5910001	ANTENNA/POWER SUPPLY	AM/FM ANTENNA, B-PILLAR MTD (SIDE OPP. EXHAUST)	2	0
O 596005	RADIO SPEAKERS	2 DUAL CONE SPEAKERS	0	0

FRONT TIRES / WHEEL ENDS

S 9210001	HUB CAPS - FRONT AXLE	CR ZYTEL HUBCAP	0	0
S 9400001	WHEEL OIL SEALS-FRONT	SCOTSEAL PLUS XL	0	0
S 904011	HUBS-FRONT	STEEL HUB PILOTTED,285MM BOLT CIRCLE	0	0
O 905101	WHEELS-DISC FRONT	22.5X9.00 ACCU ALUM, HP, 6.02" INSET, #29730	-82	0
O 905T01	SPARE WHEELS FRONT	ONE (1) SPARE TO MATCH SELECTED FRT WHEELS	0	0
O 924001	WHEEL POLISHING & BRIGHTWORK-FRONT AXLE	POLISHING FOR ALUMINUM DISC WHEELS	0	0
S 930469	TIRE SIZE & LOAD RANGE - FRONT	315/80R22.5 L-20PR TUBELESS TYPE RADIAL	0	0
S 9310017	TIRE MANUFACTURER & TREAD - FRONT	CONTINENTAL HSU - RATED TO 10K	0	0
O 931T001	SPARE FRONT TIRE	ONE (1) SPARE MTD ON WHEEL TO MATCH FRT TIRES	0	0

REAR TIRES / WHEEL ENDS

S 9130001	HUBS-REAR	IRON HUB, HP 10 STUD	0	0
O 914101	WHEELS-DISC REAR	22.5X9.00" ACCURIDE ALUM, HP, #29730	0	-56
O 914T01	SPARE WHEELS REAR	ONE (1) SPARE TO MATCH SELECTED REAR WHEELS	0	0
O 925001	WHEEL POLISHING & BRIGHTWORK-REAR AXLE	POLISHING-OUTER ALUM. DISC WHEELS SINGLE	0	0
O 933469	TIRE SIZE & LOAD RANGE - REAR	315/80R22.5 L-20PR TUBELESS TYPE RADIAL	0	0
O 9340017	TIRE MANUFACTURER & TREAD - REAR	CONTINENTAL HSU	0	100
O 934T001	SPARE REAR TIRE	ONE (1) SPARE MTD ON WHEEL TO MATCH RR TIRES	0	0
S 9410001	WHEEL OIL SEALS-REAR	SCOTSEAL PLUS XL	0	0

PAINT

S 950001	CAB PAINT SCHEME	SINGLE COLOR PAINT	0	0
S 9550001	CAB PAINT TYPE	STANDARD WHITE	0	0
S 9800001	CAB COLOR-FIRST	STANDARD WHITE N0007	0	0
S 9861U1	CHASSIS COLOR	BLACK P3036	0	0
S 987949	BUMPER COLOR	SAME AS CHASSIS,UNPAINTED ALUM OR CHROME	0	0
S 988401	DISC WHEEL OR RIM COLOR	STEEL, E-COAT WHITE / ALUM-UNPAINTED	0	0

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ADDITIONAL OPTIONS

S 899002	WARRANTY	STANDARD WARRANTY	0	0
O 899A006	TRANSMISSION WARRANTY	ALLISON 5YR. EDGE WARRANTY	0	0
S 899B001	ENGINE WARRANTY	CUMMINS STANDARD WARRANTY	0	0
O 949001	OUTSIDE CONTRACT-SERVICE PROGRAM	FONTAINE MODIFICATION	0	0
O 978090	FLOOR PLAN	90 DAYS FLOORING	0	0

DEALER OPTIONS

D ISL WARR	DEALER OPTION	5 YR./150,000 MILE EXTENDED ENGINE WARRANTY FOR CUMMINS WESTPORT ISL G.	0	0
D LNG TANK	DEALER OPTION	119GL. NEXGEN/CHART LNG FUEL TANK (26"X75") FRAME MOUNTED LNG FUEL TANK SYSTEM W/ JC CARTER TYPE FUEL FILL RECEPTACLE. PROVIDE & INSTALL (2) ZONE METHANE DETECTION SYSTEM AMEREX AMGADS III.	0	0

SUB TOTALS

BASE WEIGHT	9,895	3,021
FACTORY OPTION WEIGHT	-101	296
DEALER OPTION WEIGHT	0	0

TOTALS

TOTAL WEIGHT(LB)	9,794	3,317	13,111
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Quote Summary

04/04/2008

All figures are in US dollars
Canadian dealers require Canadian dollars

<u>EQUIPMENT</u>	<u>EACH</u>	<u>TOTAL</u>
ACX42	132,637	
SINGLE RIGHT HAND DRIVE CAB		
ADDITIONAL PURCHASED COVERAGES	450	
EPA SURCHARGE	0	
ADDITIONAL PRICE ADJUSTMENT	0	
ADDITIONAL FREIGHT	450	
ADDITIONAL SURCHARGE	0	
FREIGHT	1,450	
QUANTITY	1	
TOTAL EQUIPMENT PRICE	134,987	134,987
TRADE IN		(0)
<u>OTHER CHARGES</u>	<u>EACH</u>	<u>TOTAL</u>
FET	0	
FET AMOUNT TOTAL		0
STATE TAX/OTHER FEES	0	0
TOTAL QUOTE		134,987

Dealer Signature

Customer Signature

Date

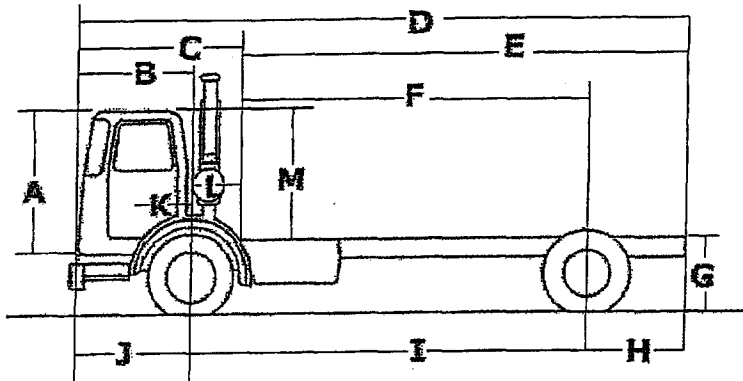
Date

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Dimensions



Dimension	Dimension(in)	Description
A	59.00	CAB HEIGHT
B	62.00	BUMPER TO BACK OF CAB
C	94.00	EFFECTIVE BUMPER TO BACK OF CAB
D	252.00	OVERALL LENGTH
E	158.00	EFFECTIVE CAB TO END OF FRAME
F	120.00	EFFECTIVE CAB TO REAR AXLE
G	41.23	UNLADEN FRAME HEIGHT
H	38.00	OVERHANG
I	143.00	WHEELBASE
J	71.00	BUMPER TO FRONT AXLE
K	-24.00	DRIVER CENTER OF GRAVITY
L	23.00	EFFECTIVE FRONT AXLE TO BACK
M	59.00	OVERALL HEIGHT
N	0.00	FRONT FRAME EXTENSION

SPECIFICATION SUMMARY

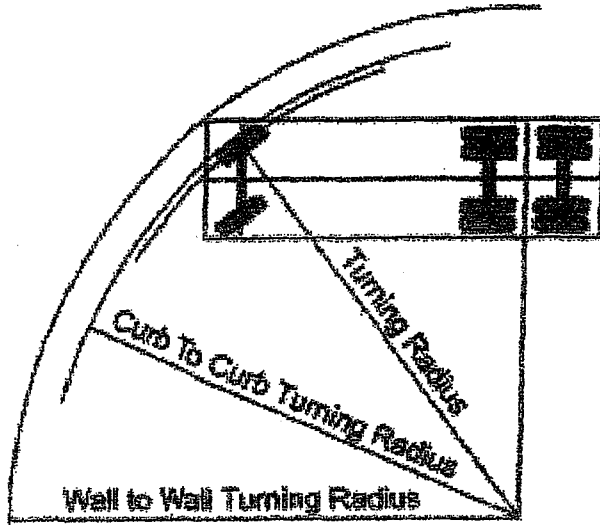
Model	ACX42
Engine	ISL G '07,320 HP @ 2200/1000 LB-FT, CUMMINS-WESTPORT
Transmission	ALLISON 4GC 3000 RDS 5 SPEED
Rear Axle	ARVIN MERITOR RS30-185 30,000 LB
Rear Axle Ratio	6.14
Rear Tire	315/80R22.5 L-20PR TUBELESS TYPE RADIAL

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Turning Radius



	Dimension(ft)	Description
A	24.12	TURNING RADIUS
B	50.34	CURB TO CURB TURNING DIAMETER
C	56.56	WALL TO WALL TURNING DIAMETER

SPECIFICATION SUMMARY

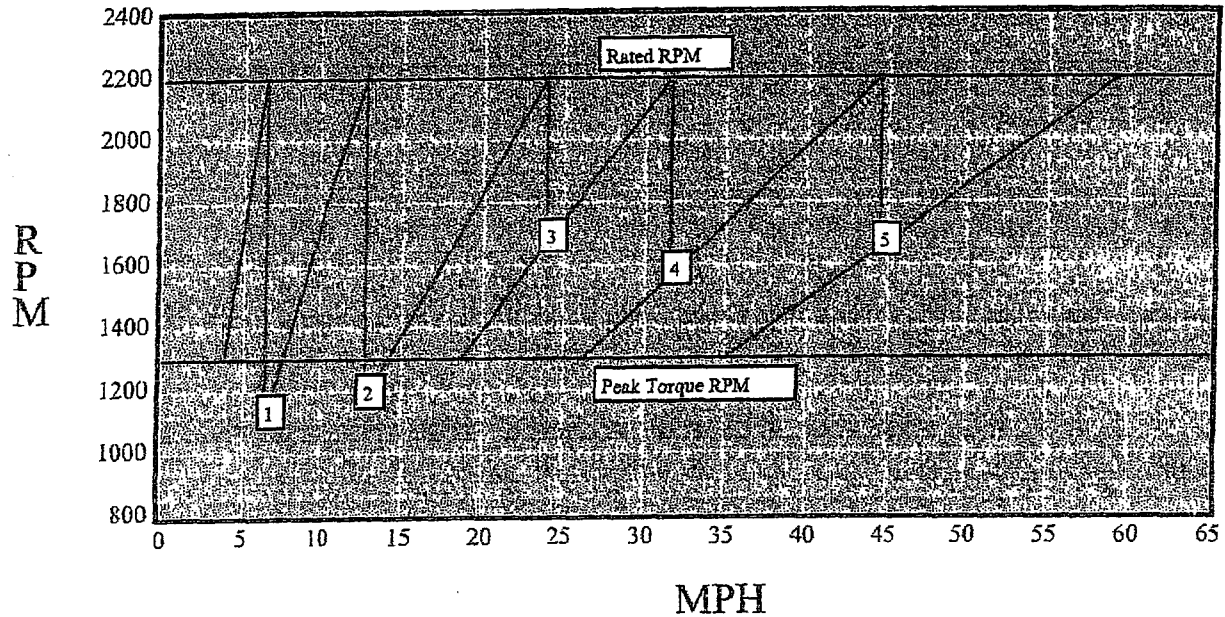
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Shift Chart



Gear	Trans. Ratio	Rear Axle Ratio	Overall Reduction	% Split	MPH	RPM After Shift
1C	6.91	6.14	42.43	0.00	6.4	0
1	3.49	6.14	21.43	97.99	12.8	1111
2	1.86	6.14	11.42	87.63	23.9	1172
3	1.41	6.14	8.66	31.91	31.6	1667
4	1.00	6.14	6.14	41.00	44.5	1560
5	0.75	6.14	4.60	33.33	59.3	1650

SPECIFICATION SUMMARY

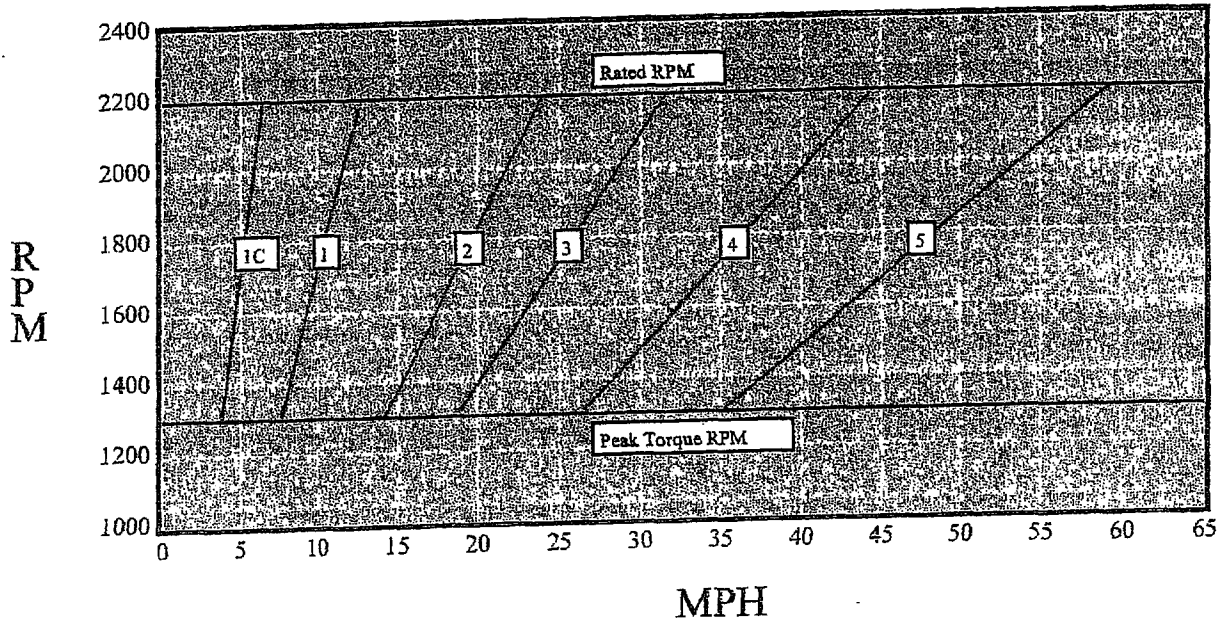
Model	ACX42
Engine	ISL G '07,320 HP @ 2200/1000 LB-FT, CUMMINS-WESTPORT
Rated Power	320 HP @2200 RPM
Peak Torque	1000 LB-FT @ 1300 RPM
Transmission	ALLISON 4GC 3000 RDS 5 SPEED
Rear Axle	ARVIN MERITOR RS30-185 30,000 LB
Rear Axle Ratio	6.14
Rear Tire	315/80R22.5 L-20PR TUBELESS TYPE RADIAL
Tire Revolution	483

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Operating Range



Gear	Trans. Ratio	Rear Axle Ratio	Minimum MHP	Maximum MPH
1C	6.91	6.14	3.8	6.4
1	3.49	6.14	7.5	12.8
2	1.86	6.14	14.1	23.9
3	1.41	6.14	18.7	31.6
4	1.00	6.14	26.3	44.5
5	0.75	6.14	35.1	59.3

SPECIFICATION SUMMARY

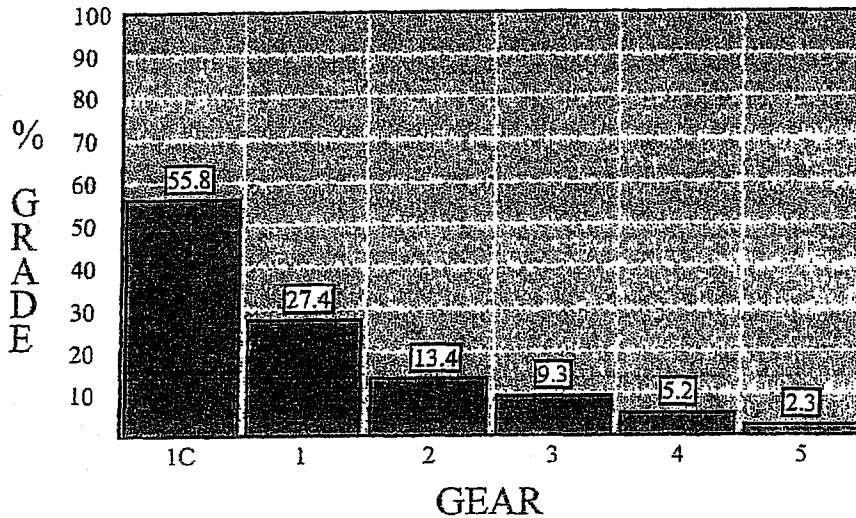
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Gradeability



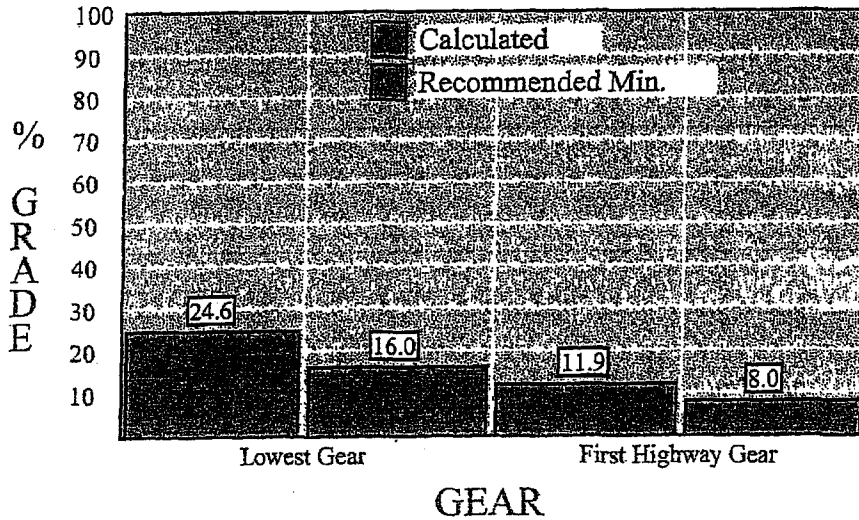
Gear	Trans. Ratio	Rear Axle Ratio	Overall Reduction	Peak Torque	Wheel HP	MPH	Maximum Grade %
1C	6.91	6.14	42.43	1,000.0	263.8	3.8	55.8
1	3.49	6.14	21.43	1,000.0	263.8	7.5	27.4
2	1.86	6.14	11.42	1,000.0	263.8	14.1	13.4
3	1.41	6.14	8.66	1,000.0	263.8	18.7	9.3
4	1.00	6.14	6.14	1,000.0	263.8	26.3	5.2
5	0.75	6.14	4.60	1,000.0	263.8	35.1	2.3

SPECIFICATION SUMMARY

Model	ACX42
Engine	ISL G '07,320 HP @ 2200/1000 LB-FT, CUMMINS-WESTPORT
Peak Torque	1000 FT-LB @ 1300RPM
Transmission	ALLISON 4GC 3000 RDS 5 SPEED
Rear Axle	ARVIN MERITOR RS30-185 30,000 LB
Rear Axle Ratio	6.14
Rear Tire	315/80R22.5 L-20PR TUBELESS TYPE RADIAL
Tire Revolution	483
GVW/GCW	46,000
Surface	Concrete

04/04/2008

Startability



Gear	Application	Recommended Minimum Grade %	Calculated Grade %
Lowest Gear	City	12.0	n/a
	On Highway	16.0	24.6
	On-Off Highway	18.0	n/a
	Off Highway	20.0	n/a
First Highway Gear	All Applications	8.0	11.9

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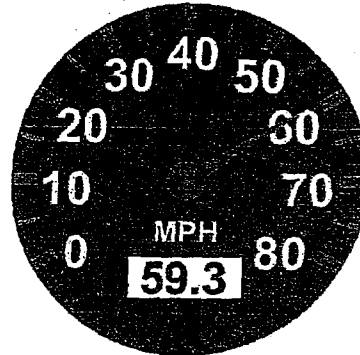
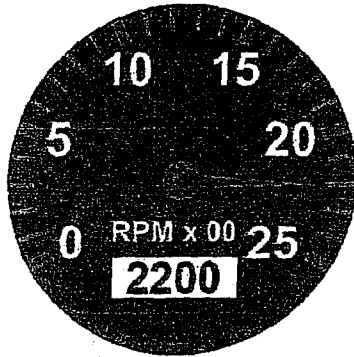
Model	ACX42
Engine	ISL G '07,320 HP @ 2200/1000 LB-FT, CUMMINS-WESTPORT
Clutch Torque	550 FT-LB @ 700RPM
Transmission	ALLISON 4GC 3000 RDS 5 SPEED
Rear Axle	ARVIN MERITOR RS30-185 30,000 LB
Rear Axle Ratio	6.14
Rear Tire	315/80R22.5 L-20PR TUBELESS TYPE RADIAL
Tire Radius	20.2
GVW/GCW	46,000
Surface	Concrete
Terrain	On Highway

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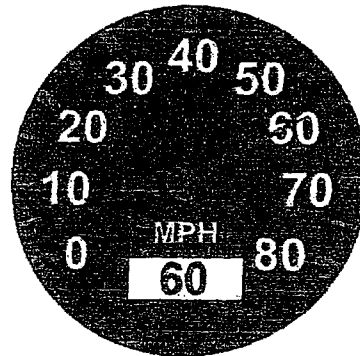
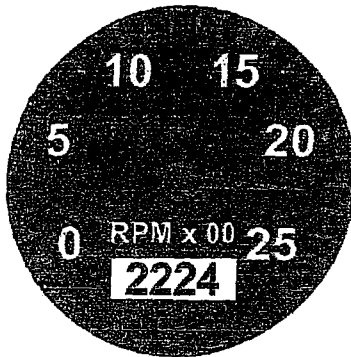
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Top Speed

Speed At Maximum RPM



RPM At 60MPH



	MPH	RPM
Top Speed	59.3	2200
Cruise Speed	60.0	2224
Minimum Of Engine Range	27.0	1000
Maximum Of Engine Range	59.3	2200
Minimum Of Economy Range	40.5	1500
Maximum Of Economy Range	48.6	1800

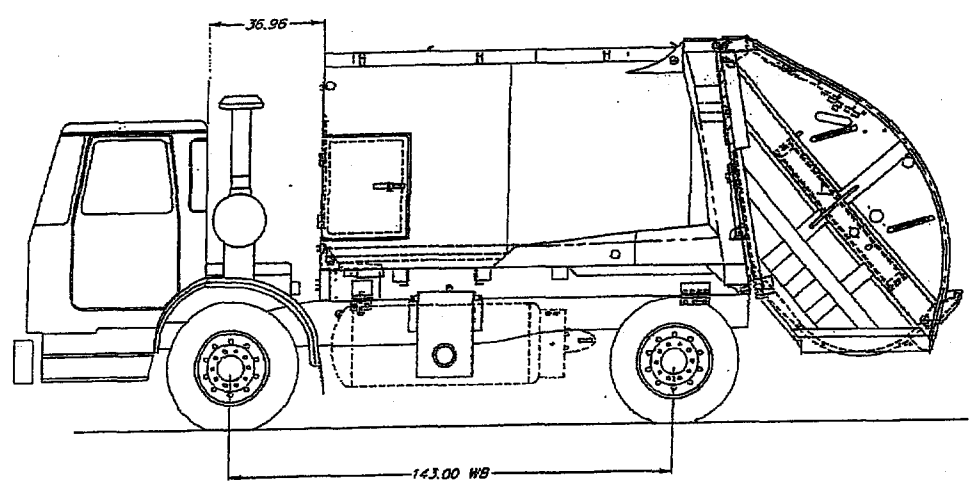
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Tire Revolution	483

Barry T.



Autocar ACX with 17 YD Metro-Pak body

Customer: ACX 1714, City of Long Beach
 Autocar ACX
 17 Yard Metro-Pak

Requestor: Barry Torgerso
 Preparer: J Pecka 03/24/2008
 VIN:

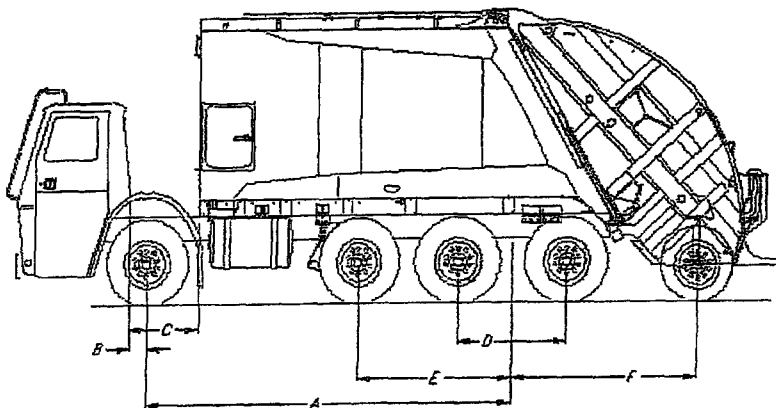
Payload Total: 7,560 (445 lbs/yd)

Notes: LNG tank located on RH chassis rail from factory (Chassis weight is assumed to have the weight of a full 119 gallon LNG tank)

Number of Axles: 2 Number of Rear Axles: 1

Auxillary Axles: <u>Description</u>	<u>Distance</u>	<u>Weight</u>	<u>CG</u>	<u>Force</u>
Pusher <input type="checkbox"/>	0.00	0.00	0.00	0.00
Tag <input type="checkbox"/>	0.00	0.00	0.00	0.00

<u>Weight Summary</u>	Front Axle Tandem	Pusher	Rear Axle Tandem	Tag	Rear Group	Gross
Rating	16,000.0		30,000.0		30,000.0	
Bridge Law Max Weight	20,000.0		20,000.0		20,000.0	40,000.0
Chassis & Options Weight	10,272.1		3,332.9		3,332.9	13,605.0
Body & Options Weight	221.9		11,288.3		11,288.3	11,510.2
TARE Weight	10,494.0		14,621.2		14,621.2	25,115.2
Payload Weight	2,183.4		5,376.6		5,376.6	7,560.0
Total Weight	12,677.4	0.0	19,997.8	0.0	19,997.8	32,675.2
Weight %	38.8%	0.0%	61.2%	0.0%	61.2%	100.0%
Bridge Law Compliant?	Compliant		Compliant		Compliant	Compliant



Inches

- 143.00 A: Wheelbase
- 9.00 B: Back of Cab to Center of Front Axle
- 37.00 C: Back of Cab to Front of Body
- 0.00 D: Rear Tandem Spread
- 0.00 E: Center of Tandem or Center of Single Axle to Pusher Axle
- 0.00 F: Center of Tandem or Center of Single Axle to Tag Axle

Note: Body and chassis weights are informational and subject to change. Payload configurations are approximate due to variations in payload content and consistency. Under no circumstance does McNeilus guarantee payload due to these variables.

	Inches	Feet	CG	Weight	Weight	CG		
Outer Bridge:	143	12	Chassis Total:	35.9	13,405	Body:	10,030.00	103.00
Rear Inner Bridge:	0	0	Chassis Front:	0.0	10,036	Payload:	7,560.00	73.70
Front Tandem Bridge:	0	0	Chassis Rear:	143.0	3,369			
Rear Tandem Bridge:	0	0	Chassis Options Total:	-25.8	200			
			Body Total:	131.0	10,030			
			Body Options Total:	202.9	1,480			
			Tag:	0.0	0			
			Pusher:	0.0	0			
			Payload:	101.7	7,560			
					32,675			

Center of Gravity Summary

Front of Body Location from Front Axle	28.0
Wheelbase	143.0
Actual Back of Cab to Rear Axle/Tandem	152.0

	<u>Chassis</u>	<u>Body</u>	<u>Payload</u>	<u>Body+Payload</u>
CG	35.0	112.2	73.7	97.0
Weight	13,605	11,510	7,560	19,070

Auxiliary Axle Effects

	Front	Pusher	Rear	Tag	Total
Chassis	10,272	N/A	3,333	N/A	13,605
Body	222	N/A	11,288	N/A	11,510
Pusher Up	0	UP	0	UP	0
Tag Up	0	UP	0	UP	0
Tare Weight	10,494	UP	14,621	UP	25,115
Payload	2,183	N/A	5,377	N/A	7,560
Total Aux Axles Up	12,677	UP	19,998	UP	32,675
Pusher Down	0	0	0	N/A	0
Tag Down	0	N/A	0	0	0
Net Pusher Down	0	0	0	N/A	0
Net Tag Down	0	N/A	0	0	0
Total Aux Axles Down	12,677	0	19,998	0	32,675

Base Chassis Weight: 13,405

Chassis Options

	<u>Weight</u>	<u>CG</u>
Driver	200.00	-25.80
Totals:	200.00	-25.80

Total Chassis Weight with Options: 13,605

Body Options

<u>Body Option Description</u>	<u>Weight</u>	<u>CG</u>
Dual Cart Tippers	522.00	48.00
Guides & Latches	222.00	226.00
Hopper Liner-355	355.00	266.25
Tipper Bar	381.20	233.75
Totals:	1,480.20	174.88

Total Body Weight with Options: 11,510

Note: Body and chassis weights are informational and subject to change. Payload configurations are approximate due to variations in payload content and consistency. Under no circumstance does McNeilus guarantee payload due to these variables.

Maximum Axle Loading

Warning: Body and chassis weights are informational and subject to change. Payload configurations are approximate due to variations in payload content and consistency. Under no circumstance does McNeilus guarantee payload due to these variables.

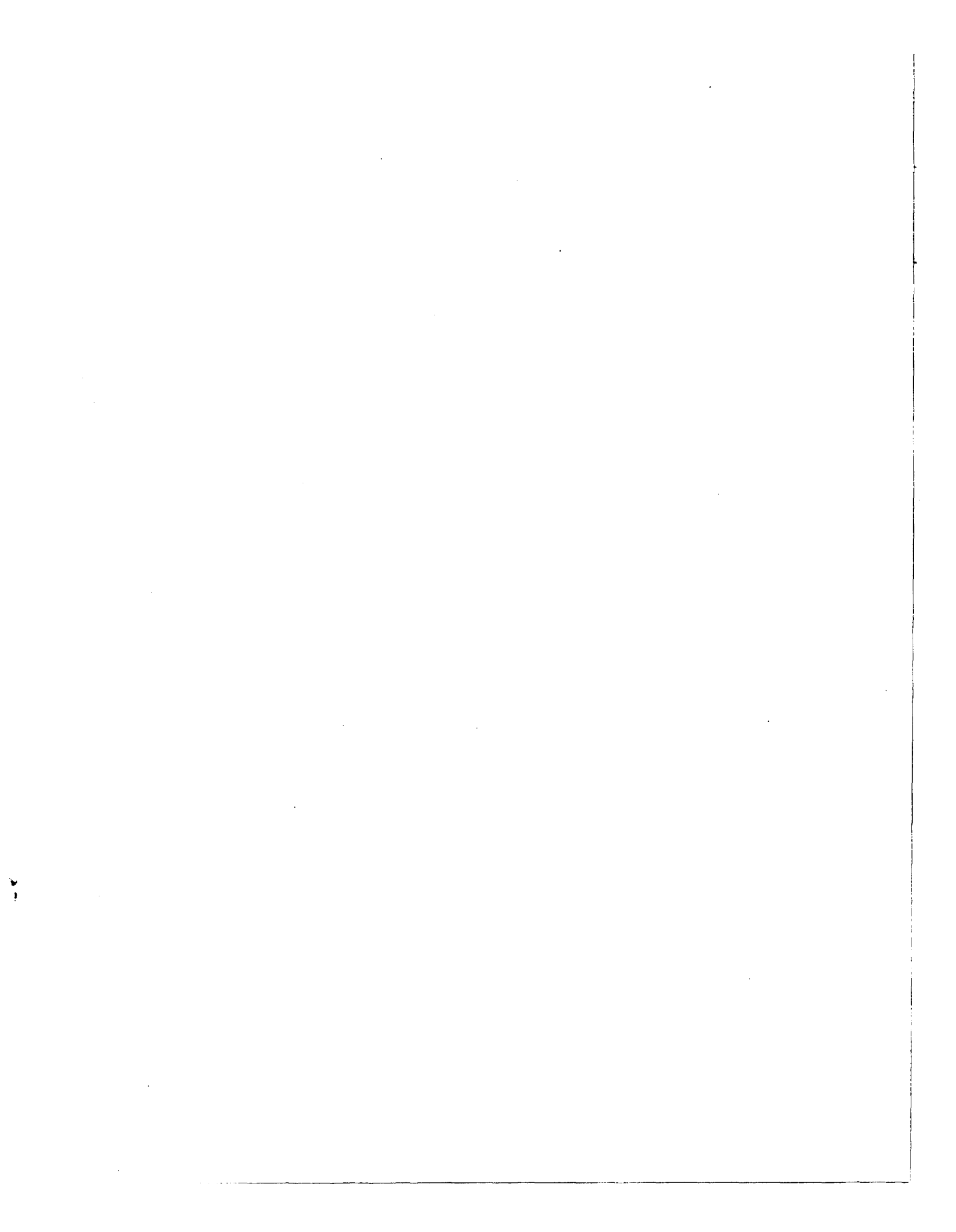
	Bridge Law Compliant	Alternative Loading
Payload Weight:	7,560.00	19,060.00
(lbs/yard)	445	1121
Pusher Force:	0.00	0.00
Tag Force:	0.00	0.00

<u>Axle Weights</u>	Front Axle Tandem	Pusher	Rear Axle Tandem	Tag	Rear Group	Gross
Axle Rating	16,000		30,000			
Bridge Law Compliant	12,677	0	19,998	0	19,998	32,675
Alternative Loading	15,999	0	28,176	0	28,176	44,175

Customer accepts this weight distribution and payload for this vehicle.

Signature: _____

Note: Body and chassis weights are informational and subject to change. Payload configurations are approximate due to variations in payload content and consistency. Under no circumstance does McNeilus guarantee payload due to these variables.





City of Lompoc Bid Tabulation Sheet

**Disclaimer: This information does not reflect actual awarding of the BID. It is for recording purposes only.
The winning Bidder will be notified.**

Date: 8-23	THIS SPACE INTENTIONALLY LEFT BLANK
Bid No.: 2492	
DEPT./Division: FLEET	
Company	Total Bid
PASO ROBLES GMC (CENTRAL) Unit Price = \$178,715.00 T/I = 0	\$305,130.00 Heil/WX64
M ^c NIBLWS - Unit Price = \$176,941 T/I = \$6,000 \$21,000	\$360,405.36 MTM/WX64
RAY GASKAN SERVICE - Unit Price = \$167,948.00 T/I = 5,800- 7,300-	\$348,827.94 New Way/WX64
*not awarded yet 9/4/07 Bang T.	

Prepared by: Ray Oule

Checked by: Mania Villaneda

COPY

BID FORM

The undersigned agrees to sell, F.O. B. Destination, to the City of Lompoc the goods/services specified in accordance this bid. I/We have stated hereon the price(s) at which we will accept as full payment the amount shown below. F.O.B. destination indicates that the seller is responsible for the shipment until it reaches its destination, even if freight is allowed and paid by the buyer.

All bidders MUST calculate California Sales/Use Tax at the current rate in effect in Santa Barbara County as noted below. The City is obligated to pay all applicable taxes imposed in the county of receipt either to the supplier or directly to the state in the form of a Sales Tax (on the transfer of tangible personal property) or a Use Tax (on the storage, use or other consumption in California) of same.

Qty	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
	<u>Rear Loader Refuse Packers</u> Cap & Chassis Make, Model & Type <u>AUTOCAR WX64 LCF</u> Engine <u>Cummins ISL 345hp</u> Transmission <u>Allison 46C 4500 RDS</u> Rear Loader Make & Type <u>McNeilus 2816 Rear Loader</u>		
2	Compactor Make & Type <u>Same</u>	\$176,941	\$353,882. ⁰⁰
1	Trade in <u>City Vehicle # 5431</u> , 1991, GMC/Volvo WX64 Cab & Chassis with roll-off assembly and components.: [REDACTED] Engine: Cummins LTA10 Transmission: Allison HT740		←\$6,000. ⁰⁰ →
1	Trade in <u>City Vehicle # 5480</u> , 1998, Peterbilt 320 Cab & Chassis with roll-off assembly and components. VIN: [REDACTED] Engine: CAT 3126 Transmission: Allison MD3066P		←\$21,000. ⁰⁰ →
		\$326,882. ⁰⁰	
		Shipping	\$8,190. ⁰⁰
		Sub-total	\$335,072. ⁰⁰
		Sales Tax @ 7.75%	\$28,060. ⁵⁸
		Total of all Charges	\$363,132. ⁵⁸

Revised
10/11/07
Barry
Torgerson

The trade in vehicles may be seen by appointment only with Anthony Garcia (805) 875-8029

Copy

PURCHASE ORDER CHANGE NOTICE

CITY OF LOMPOC • PURCHASING DIVISION • P.O. BOX 8001 • LOMPOC, CA 93438
Phone: (805) 875-8000 FAX: (805) 735-7628



To: McNeilus Truck and Mfg Attn: Barry Torgerson PO Box 1588 Colton, CA 92324			P.O. Number	Change Number
			P402426	1
			Requisition Number	
			Fleet-8-1870	
			Date of Purchase Order	
		10/12/2007		
Vendor Number	Phone Number	Fax Number	Date of Change Notice	
040080	800 660 0676	909 370 0739	04/17/2007	

Please note the following clarifications changes, additions or deletions to this order:

- 1 Specifications Item 3.8 - Change to 9.0 liter In lieu of 11.0 Liter engine
- 2 Specifications Item 3.18a - Change to left hand drive In lieu of right hand drive.
- 3 Specifications Item 4.14a - Add Electrical signal hot shift PTO (listed as selection 1)

Vendor please sign below and return acknowledge receipt of this change order by fax to (805) 735-7628.

Per Quote # 0C4200708201209

Signature <i>Barry Torgerson</i>	Print name Barry Torgerson
Title: <i>Salesman</i>	Date: <i>11/9/07</i>
Email Address: <i>B.Torgerson@McNeilusco.com</i>	Federal Tax ID Number: [REDACTED]

This Purchase Order Change Notice alters the above-referenced Purchase Order only to the extent shown. All other Terms and Conditions of the purchase remain in effect.

COUNTERSIGNATURE	RAY AMBLER, Purchasing & Materials Manager
------------------	--

FROM :

FAX NO. : 8057357628

Oct. 23 2007 08:45AM P1
Received

copy



PURCHASE ORDER

CITY OF LOMPOC

PURCHASING DIVISION, PO BOX 8001, LOMPOC, CA 93438-8001

PO No. & Terms (PO No. must be on Invoice)

McNeilus Truck and MFG
O. Box 1588
Lompoc CA 92324
Phone: (800) 660-0676 Fax: (909) 370-0739 Vendor No.: 040080

P.O. No.: P402428 -
Req. No.: FLEET-8-1870 Page 1 of 1
Bid/Quote No.: R_AMBLER
Pmt Terms: Net 30
Shipping Terms: F.O.B., Destination
Print Date: 10/12/2007 Delivery Date: 04/14/2001

SHIP ORDER TO:
City of Lompoc
Dept.: Fleet Management
100 West Laurel Avenue
Lompoc CA 93435

INVOICE BY MAIL IN DUPLICATE TO:
CITY OF LOMPOC
ATTN: FINANCE DEPT. P402428
PO BOX 8001
LOMPOC CA 93438-8001
Or email invoice to ap@ci.lompoc.ca.us

QTY	UNIT	DESCRIPTION	UNIT COST	EXTENSION
2	FEE	Attn Barry Torgerson REAR LOAD REFUSE PACKER Cab & Chassis Autocar WX64 LCF Engine Cummins ISL 345 HP Transmission Allison 4GC450RDS. Included by reference and made a part of this order will be Lompoc Bid 2452 and Vendor Response	\$176,941.00	\$353,882.00
1		Trade in to Replace Truck #5485 #5431 1991 GMCF Volvo WX64 Cab & Chassis with roll off assembly & components	(\$6,000.00)	(\$6,000.00)
1		Trade in to replace Truck #5540 #5480 1998 Peterbuilt 320 Cab & Chassis with roll off assembly and components	(\$21,000.00)	(\$21,000.00)
1	LOT	Delivery and Shipping Charges	\$8,190.00	\$8,190.00

***Please sign below and fax back to (805) 735-7628 to acknowledge receipt of this purchase order within five business days.

Barry Torgerson Signature Barry Torgerson Print name

B.Torgerson@McNeilusco.com Email address

10/23/07 Date [Redacted] City Tax Number [Redacted] Federal Tax ID #

** Included by reference and made a part of this order are the Terms and Conditions & Invoice Requirements which may be viewed at cityoflompoc.com/purchasing

Tax: \$28,060.59

TOTAL: \$363,132.59

Received By:			
Carrier:			
Date Rec'd:			
Qty Rec'd:			
Order received in full by:		Dated:	

THIS ORDER NOT VALID UNLESS SIGNED BELOW:

[Signature]

Counter signature required for amount over \$10,000.00

ACCOUNT NUMBER	AMOUNT	ACCOUNT NUMBER	AMOUNT	(Rev. 2007.08.27 pp.ppt)
	\$22,405.28	73000-75000	\$340,727.31	

McNeilus

An Oshkosh Corporation Company

McNeilus Truck and Manufacturing Co.

401 North Pepper
PO Box 1588
Colton, CA 92324
9093702100

Apr 07, 2008

City of Lompoc
Attn:
1300 W. Laurel Ave
Lompoc, CA 93436
USA

Thank you for the opportunity to provide this proposal.

We are pleased to submit the attached quotation for (2) Model 2816: RL 3.5HD 28 yard.

This quotation is comprised of several documents, including:

Cover Letter
Quote Form
Specifications
Terms And Conditions

To place an order in response to this quotation, or if you have any questions, please contact me. We look forward to hearing from you.

Sincerely,

Barry Torgerson
Sales Rep
401 North Pepper
PO Box 1588
Colton, CA 92324
Phone: 9093702100
Fax: 9093700739
Email: btorgerson@mcneilusco.com



An Oshkosh Corporation Company

McNeilus Truck and Manufacturing Co.

401 North Pepper
PO Box 1588
Colton, CA 92324
9093702100

Quote Number: 0C4200708201209 Rev: 1 Config: N21/0

Catalog: 07.11.05A

Model 2816: RL 3.5HD 28 yard

Printed: 4/7/2008

Quoted/Sold To:

FOB:

City of Lompoc 1300 W. Laurel Ave Lompoc, CA93436 USA Attn:	Lompoc CA 93436
---	-----------------

Total Configured Price	\$173,641	Quantity Discount Pricing includes all applicable discounts for quantity quoted. Change of quantity ordered may result in revision of price.
Surcharge	0	
Specials	3,300	Freight Charges Freight charge is estimated based upon fuel cost at the time of quotation. The charge is subject to change at the time of delivery.
FET	0	
Freight	4,095	
Extended Warranties	0	Taxes No state or local taxes are included in the prices quoted herein. Any applicable state and local taxes must be added to these prices and paid directly by the purchaser.
Miscellaneous	0	
Sales Tax	0	
Total Unit Price	\$181,036	Specifications All specifications are subject to change without notice. Several factors beyond the control of the chassis OEM or McNeilus may result in the substitution of components of equal or greater quality.
Quantity	2	
Extended Price	\$362,072	Special Options Special options are subject to Engineering application approval.
Required Down Payment	\$0	Terms & Conditions This quotation assumes and is subject to the standard terms and conditions of McNeilus Truck and Manufacturing Co. and Oshkosh Truck Corporation, including limitations of warranty.

Payment Terms
Net 30

Acceptance

This quotation is valid until 09/19/2007.

Any order is contingent upon acceptance by McNeilus Truck and Manufacturing Co.

By signing and returning this document, you are indicating that you have read and approved the above specification.

Please return this signed quotation and down payment to your McNeilus representative.

If you have any questions, please feel free to contact us.

Authorized Signature

Date



An Oshkosh Corporation Company

McNeilus Truck and Manufacturing Co.
401 North Pepper
PO Box 1588
Colton, CA 92324
9093702100

Quote Number: 0C4200708201209
Rev: 1

Catalog:07.11.05A
Printed:4/7/2008

Chassis Type: SPECIAL
Chassis Specification: 08 PASW4 - Autocar WX64 Spec

Special Order Chassis:

This quotation includes a special order chassis, described by a separate document attached to this proposal.



An Oshkosh Corporation Company

McNeilus Truck and Manufacturing Co.
401 North Pepper
PO Box 1588
Colton, CA 92324
9093702100

Quote Number: 0C4200708201209
Rev: 1

Catalog:07.11.05A
Printed:4/7/2008

Other Chassis Features:

Configuration

DSL	Fuel Type	Diesel
SS	Steering	Street Side Seated Steering

Modifications

Y	Programming	Programming: Enable Throttle Advance
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Summary

N	Camera Cables	No Camera Cables Installed
07CUM	Engine	Cummins, 2007 Emissions
DC	Mount Location	Dodge Center
REMHOT	PTO Type	Remote Mount Hot Shift
5	Safety	Fire Extinguisher in Cab, 5 lb.
Y	Safety	Triangle Safety Kit
ELECT	Throttle Type	Electronic
A45	Transmission	Allison 4500 RDS

McNeilus Body Features:

Body

28R	Capacity	28 yd 3.5TG Rear Loader
STD	Floor	Standard Floor (3/16) AR200
	Model	Model 2816: RL 3.5HD 28 yard
LH	Side Access Door	Door Hinged Forward, Streetside

Cameras

RC	Backup	Backup Camera, Center of Tailgate
OTH	Make/Model	Other (See Specials)
CD	Monitor	Monitor Mount Between Seats
	System Info	Other (See Specials), 1 Camera

Commercial

STD	Bumper Pads	Bumper Pads Bolted to Tailgate
FIX	Container Stop	Container Stop, Fixed
30	Container Tipper	Container Tipper with 30 inch arms
CS	Container Tipper	Curbside Controls
2	Miscellaneous	Rollers, Two (2)

Hydraulics



An Oshkosh Corporation Company

McNeilus Truck and Manufacturing Co.
401 North Pepper
PO Box 1588
Colton, CA 92324
9093702100

Quote Number: 0C4200708201209
Rev: 1

Catalog:07.11.05A
Printed:4/7/2008

ELE	Filtration	Hydraulic Filter, Parker w/Cab Indicator Light
PRESS	Other	Wrap High Pressure Hydraulic Hoses
GEAR	Pump	Hydraulic Pump, Gear Type
SS	Tank	Hydraulic Tank Mounted Streetside

Lighting

Y	Body, Mid	Mid-Body Turn Arrow
STAR	Cab	Star Strobe, Cab, Center
2	Hopper	Hopper Work Lights: 2
Y	Miscellaneous	Cage Guards for Star/Whelan Strobes
	Miscellaneous	Strobe Guard(s): 2
UP	Reverse	Reverse Light, 4 inch in upper light bar
PETE	Tailgate	Peterson Center Stop Light
STAR	Tailgate	Star Strobe, Upper Tailgate
LEDT	Type, General	LED, Trucklite (where applicable)

Miscellaneous

MTM	Other	Mudflaps, Front: Black w/McNeilus Logo
MTM	Other	Mudflaps, Rear: Black w/McNeilus Logo
TG	Other	Rear Mudflaps Mounted on Tailgate
BOX	Other	Cab box between seats
UPPER	Other	Mount TG in Upper Hole
ECCO	Safety	Driveshaft Motion Detector, ECCO
ECCO	Safety	Ecco Dual Tone Back-up Alarm

Paint

TEMP	Category	Standard template
1M	Configuration	One color
Y	DOT Tape	Yes
ES	Miscellaneous	English/Spanish Decals and Markings

Slide/Sweep

CS	Controls	Standard Linkage Curbside
----	----------	---------------------------

Tailgate

CS	Controls	Throttle Advance, Curbside
80	Guides/Latches	Guide Width: 80 inches
Y	Guides/Latches	Guides and Latches: Yes
B-TYPE	Guides/Latches	"B" Style
B-TYPE	Load Edge	"B"-Type Load Edge



An Oshkosh Corporation Company

McNeilus Truck and Manufacturing Co.
401 North Pepper
PO Box 1588
Colton, CA 92324
9093702100

Quote Number: OC4200708201209
Rev: 1

Catalog:07.11.05A
Printed:4/7/2008

Y	Miscellaneous	TG/Ejr Valve Throttle Adv
TURN	Miscellaneous	Turnbuckle Lock
STDHT	Miscellaneous	Standard Tailgate Steps
3.5HD	Type	3.5 Yd w/ Heavy Duty Cylinders

Special Features and Options:

R005-971A-PP20-C3NC-W2091

SILVER STATE CAMERA SYSTEM LOMPOC

Extended Warranties:

Body 1 Year RL Body Warranty

Options Available at Additional Cost (not included in quoted price):

Additional Notes:

Service manuals and schematics included.



McNeilus Truck and Manufacturing Company
HIGHWAY 34 EAST
POST OFFICE BOX 70
DODGE CENTER, MINNESOTA 55927
507-374-6321

Terms and Conditions of Sale Including Limitations of Warranty

Order Placement. All goods and services furnished by McNeilus are governed by these Terms and Conditions of Sale. Placement of order by Buyer shall be in accordance with then current McNeilus procedure. Acceptance by McNeilus of order from Buyer is expressly conditioned upon Buyer acceptance of these Terms and Conditions, including those on the face of the order acceptance, and any provisions of Buyer order or other communication in conflict with these Terms and Conditions are expressly rejected. Stenographic and clerical errors are subject to correction. No additions or modifications shall be valid unless confirmed in writing by McNeilus. McNeilus may supplement or alter these Terms and Conditions of Sale, issue product and/or sale policy announcements, or the like, but no such publication shall supersede any of these Terms and Conditions of Sale. McNEILUS IS NOT BOUND TO FURNISH ITS GOODS OR SERVICES EXCEPT IN ACCORDANCE WITH THE TERMS OF ITS ORDER ACCEPTANCE FORM.

Cancellation. Buyer may cancel the order, in whole or in part, by written notice any time, provided the Buyer pays: a) the cost, including installation and removal costs, of any equipment purchased by McNeilus prior to cancellation for the purpose of filling Buyer order and not usable by McNeilus for making other goods it then manufactures; b) the quoted price for all goods finished and ready to ship; and c) other reasonable costs (including but not limited to the cost of raw materials and goods still in the process of manufacture but unfinished at the time of cancellation) which McNeilus may have incurred in the performance of the order. Notice of cancellation is not effective until received by McNeilus at its corporate address (Highway 34 East, P.O. Box 70, Dodge Center, MN, 55927, U.S.A., ATTN: VP-Finance). If Buyer elects to cancel the order in part, McNeilus may, at its option, within a reasonable time thereafter, cancel the entire order by written notice. If Buyer elects, upon payment of costs of equipment, quoted prices of goods finished and ready to ship and/or costs of raw materials, it may take delivery of the same as provided below.

Price/Delivery. Unless otherwise provided by our quotation or agreed by us in writing, price and delivery terms shall be: a) Trucks and Truck Chassis - ex factory shipping point; and b) Parts - FOB shipping point. All applicable taxes shall be for the account of Buyer. Unless otherwise agreed in writing, we will select the route and manner of shipment, reserve the right to make delivery in installments when necessary, to invoice each installment separately and to expect payment for each installment within our selling terms. All risk of loss shall pass to the Buyer at the point and time of delivery set forth in this paragraph. Prices for goods shall be those in effect on the date of invoice unless otherwise provided by our quotation or agreed to in writing by McNeilus. If McNeilus shall fail to make delivery, or Buyer to accept delivery, according to the agreed upon delivery schedule, the other party may cancel the then remaining balance of the order unless the delay is an excusable delay. Prices are good for only quantities indicated. If shipment or any other act or condition affecting payment for the goods or any part of them shall be delayed on account of Buyer, payment shall be due as if shipment had been made. A reasonable storage charge may be made and such storage shall be at the risk of Buyer.

Payment/Credit/Security. All payments shall be made in US dollars. Payment shall be due upon delivery or as otherwise provided by our quotation, order acceptance, invoice or other writing. We reserve and by its order Buyer grants a security interest in all goods wherever located until payment has been received, and Buyer will promptly execute and deliver documents provided by Seller to perfect such security interest. All orders received are subject to credit approval. Buyer agrees to submit to McNeilus those items reasonably requested in order to establish Buyer credit. McNeilus shall be entitled to charge interest for payments made not in accordance with the stated or agreed upon terms of payment at the stated rate or the highest rate permitted by law, whichever is lower. Whenever McNeilus in good faith deems itself insecure, it may: Cancel any outstanding orders with Buyer and/or hold production/shipment of any unfilled orders; modify or revoke its extension or credit to Buyer; reduce any unpaid debt by enforcing its security interest (and proceeds therefrom); and take any other steps permitted by law and necessary or desirable to secure McNeilus with respect to Buyer payment of goods and services furnished or to be furnished. Buyer will pay McNeilus actual costs of collection incurred, including reasonable attorney fees if McNeilus is required to commence any suit or proceeding for collection of any delinquency. Certificates of Origin for a Vehicle shall be released to Buyer only upon receipt of payment in full by McNeilus unless otherwise agreed upon in writing. Buyer shall permit McNeilus at any reasonable time to make audits of its collateral, including records of shipments, sales, and payment. McNeilus may demand immediate payment for trucks; chassis or parts shipped from Buyer location for which payment has not been received in accordance with agreed payment terms. Buyer shall have no right of offset against amounts owed to McNeilus.

Acceptance. Goods furnished or services performed by McNeilus in all events will be deemed to have been accepted within thirty (30) days after receipt by Buyer, unless rightfully rejected within such period by written notice to McNeilus, by Certified Mail, Return Receipt requested, setting forth all of the defects upon which the rejection is claimed. Claims for factory damage or shortages shall not be considered unless made in writing within ten (10) days after receipt of the goods and accompanied by reference to our bill of lading and invoice numbers. Claims for damage or shortage in transit must be filed by Buyer against carrier unless shipping costs are prepaid. Defective goods shall be held for McNeilus inspection or disposition.

Limited Warranty; Disclaimer. McNeilus warrants that all new and unused goods furnished by McNeilus are free from defect in workmanship and material as of the time and place of delivery by McNeilus in accordance with its Standard Limited Warranty in effect at the date of contract formation. Our obligation under this Limited Warranty is subject to the following qualifications: a) McNeilus or its authorized Dealer shall have been notified of such claimed defect within thirty (30) days of its discovery or such later date as is specified in the Standard Limited Warranty; b) the vehicle shall have been subject only to proper use normal for similar vehicles; and c) it shall have been regularly maintained and serviced in accordance with the Manufacturer Service Manual. No defective part may be returned to the factory without our prior written consent, or that of our authorized representative. Any return must be with transportation prepaid, which may be refunded at the discretion of McNeilus. The Standard Limited Warranty for the goods is incorporated herein by reference. It is the exclusive warranty given by McNeilus. McNEILUS HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY IMPLIED WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE, notwithstanding any knowledge of McNeilus regarding the use or uses intended to be made of goods, proposed changes or additions to goods, or any assistance or suggestions that may have been made by McNeilus personnel.

Buyer Remedies. At its option, McNeilus will repair or replace nonconforming goods, or allow a credit for the replacement price of parts.

Exclusions of Incidental and Consequential Damages. In no event shall McNeilus be liable for any incidental, special, indirect, or consequential damages, whether resulting from non-delivery or from negligence of McNeilus or other tort. This exclusion applies regardless of whether such damages are sought for breach of warranty, breach of contract, negligence, or strict liability in tort or under any other legal theory.

Prepared By MIKE MILLER
 Quote Id : City of Lompoc CA
 Phone : 765-584-7278
 Order : 80009142
 Lead Unit Sales Order : 80009142

Prepared For BARRY TORGERSON
 MTM (LOMPOC)

Vehicle Specification

		Description	Front Weight	Rear Weight
AUTOCAR TRUCKS				
S 004519	MODELS	WX64	9,182	6,720
S 500015	CAB SHELL	WX CAB - SINGLE LH DRIVE	0	0
S 100T98	CUSTOMER LAYOUT	NONE	0	0
O 100U001	CUSTOMER TYPE	MUNICIPAL	0	0
S 680004	NAME PLATES,STD	AUTOCAR	0	0
S 004N064	CHASSIS VIN IDENTIFIER	6 X 4	0	0
SOLUTION				
S C00000	TRUCK TYPE	CUSTOM TRUCK	0	0
O C01003	APPLICATION	REFUSE - LANDFILL	0	0
O C02003	BODY TYPE	REAR END LOADER	0	0
O C03002	TERRITORY	WEST COAST	0	0
O C04003	BODY COMPANY	McNEILUS	0	0
O C06305	BODY STYLE	MCNEILUS XC	0	0
O C05028	BODY CAPACITY	28 YARD	0	0
O D010180	FRONT GAWR	18000 LBS	0	0
A D020440	REAR GAWR	44,000 LBS	0	0
A D100620	GVWR	62,000 LBS	0	0
VEHICLE ADAPTATION				
S 114010	COUNTRY OF USE	UNITED STATES STD MARKET ADAPTATION	0	0
ENGINE				
S 1010021	ENGINE ASSY	ISL '07, 345HP@2100 / 1150 FT-LBS, CUMMINS	0	0
O 102345	ENGINE HORSEPOWER RATING	345 HORSE POWER	0	0
S 103003	ENGINE OIL CHECK & FILL	EXTERIOR CHECK AND FILL	0	0
S 105001	ENGINE FLYWHEEL HOUSING	SAE NUMBER 1 HOUSING	0	0
S 111001	DRAIN PLUG-ENGINE	MAGNETIC	0	0
S 120001	ENGINE SUPPORTS	STEEL NODAL MOUNT	0	0
S 4460001	FUEL TYPE	ULTRA-LOW SULPHUR DIESEL FUEL REQUIRED	0	0
ENGINE EQUIP				
S 128071	ENGINE CONTROL SPECIFICATIONS	DEFAULT SPECS	0	0
S P010065	VEHICLE GOVERNED SPEED LIMIT	SPEED LIMIT 65MPH	0	0
S P020001	ENGINE IDLE SHUT DOWN	ENGINE IDLE SHUT DOWN ENABLED (5 MINUTES)	0	0

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S	P030001	CRUISE CONTROL PARAMETER	CRUISE CONTROL ENABLED	0	0
S	129022	ENGINE ELECTRONICS	CUMMINS DIESEL, CM875	0	0
S	132034	ENGINE PROTECT SYSTEM/WARN & SHUTDOWNS	AUDIBLE/VISUAL ALARM/SDN, LOP, HT, LWL	0	0
S	170025	FILTER-FUEL	CUMMINS SPIN-ON FILTER	0	0
S	171013	FILTER-ENGINE OIL BY-PASS	CUMMINS ENGINE OIL FILTER	0	0
S	172007	FILTER-ENGINE OIL FULL FLOW	CUMMINS COMBINATION FULL FLOW/BYPASS	0	0
S	174V98	FUEL HEATER	NO HEAT EXCHANGER PROVIDED	0	0
S	1750001	ENGINE OIL	STANDARD ENGINE OIL	0	0
S	2000002	RADIATOR	1300 SQ. IN. 3 ROW HIGH CAPACITY	0	0
S	201002	FAN SHROUD	FAN RING	0	0
S	204002	COOLANT HOSES	SILICONE HOSES WITH STEEL TUBING	0	0
S	208014	FAN & DRIVE-ENGINE	FAN CLUTCH, ON/OFF	0	0
S	2090001	RADIATOR COOLANT	EXTENDED LIFE COOLANT	0	0
S	210002	RADIATOR CHECK/FILL	EXTERIOR COOLANT CHECK AND FILL	0	0
S	2120003	RADIATOR SURGE TANK	STANDARD SURGE TANK W/ SIGHT GLASS	0	0
S	219001	AIR CHARGE SYSTEM	COOLING	0	0
S	2200001	AIR CLEANER	15" ONE STAGE EPG CLEANER DONALDSON	0	0
S	222001	AIR CLEANER INLET PIPING	ALUMINUM STACK	0	0
S	226001	AIR INTAKE RAIN CAP	BLACK, HOOD TYPE	0	0
O	2270001	AIR INTAKE PRECLEANER	SYKLONE 9002 PRE-CLEANER	8	0
S	230022	MUFFLER SYSTEM	SINGLE VERTICAL - RH SIDE	0	0
S	231011	EXHAUST SHIELDS	UNPAINTED ALUM VERT MUFF SHIELD-SINGLE	0	0
S	2320001	EXHAUST STACKS	12FT 6IN STAINLESS STEEL - SINGLE	0	0
O	233004	EXHAUST STACK EXTENSION	TURNED OUT STACK	0	0
O	234998	EXHAUST RAIN CAP	NO EXHAUST RAIN CAP PROVIDED	-1	0
S	235002	EXHAUST PIPING	STAINLESS STEEL FLEX SECTIONS	0	0
S	236002	MUFFLER SUPPORT	FRAME MOUNTED	0	0
S	4380003	FILTER-FUEL, ADDITIONAL	FLEETGUARD FS 1003 F/W SEPARATOR W/PROBE & DASH LIGHT	0	0
S	5300001	ENGINE/EXHAUST COVER	ALUM TURBO/EXHAUST PIPE DEBRIS SHIELD	0	0
S	700026	AIR COMPRESSOR	CUMMINS WABCO 18.7 CFM COMPRESSOR	0	0
S	701001	GOVERNOR-AIR COMPRESSOR	STANDARD	0	0
S	702002	AIR LINES-COMPRESSOR DISCHARGE	TEFLON HOSE	0	0
O	8020002	ALTERNATOR	LEECE NEVILLE 12V 200 AMP 4900	5	0

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O 810092	BATTERY	3 JOHNSON CONTROL 31ECL 12V 2850CCA	7	3
S 8200002	STARTING MOTOR	DELCO REMY 12V 39 MT	0	0

TRANSMISSION

S 2550002	TORQUE CONVERTER	TORQUE CONVERTER TC 521	0	0
S 2580003	VOCATION	RDS REFUSE - VOC 400-XXX	0	0
S 269022	CONTROL MODULE (ELECT)	REFUSE W/ AUTO-NEUTRAL GRP105, VP142	0	0
S 2700017	TRANSMISSION	ALLISON 4GC 4500 RDS 5 SPEED	0	0
S 284016	TRANSMISSION CONTROLS	ALLISON PUSHBUTTON CONTROLS	0	0
S 286005	COOLER-TRANSMISSION OIL	OIL TO WATER TYPE	0	0
S 290003	TRANSMISSION OIL FILL/CHECK	OIL FILL TUBE / DIPSTICK W/ LEVEL SENSOR	0	0
S 291001	DRAIN PLUG-TRANSMISSION	MAGNETIC	0	0
S 292004	TRANSMISSION LUBRICANT	TRANSYND SYNTHETIC AUTO TRANS FLUID	0	0
S 300011	DRIVESHAFT-MAIN	SPICER 1760HD HALF ROUND	0	0
S 302007	DRIVESHAFT-INTER-AXLE	1710 WITH HALF ROUND YOKES	0	0

FRONT AXLE

S 3690003	FRONT AXLE POSITION	53.5 INCHES	0	0
O 3700003	FRONT AXLE	MERITOR MFS-18 STEER AXLE, 18000# RATING	0	0
O 371009	FRONT SUSPENSION	8500 LB FLATLEAF 18,800 GROUND CAPACITY	-16	0
S 371T98	SUSPENSION, FRONT AUX	NO AEON AUX LOAD CUSHION PROVIDED	0	0
S 373002	SHOCK ABSORBERS-FRONT	DOUBLE ACTING SINGLE - HEAVY DUTY	0	0
S 374001	FRONT AXLE LUBRICANT	STANDARD	0	0
S 383101	STEERING GEAR	INTEGRAL POWER STEERING W/RIGHT HAND RAM	0	0
S 384009	POWER STEERING PUMP	STANDARD P/S PUMP	0	0
S 387003	POWER STEERING RESERVOIR	FOUR QUART REMOTE MOUNTED	0	0
S 388001	POWER STEERING HOSE	STANDARD HOSES	0	0

REAR AXLE

O 330442	REAR DRIVE AXLE-SINGLE & TANDEM	ARVIN MERITOR RT44-145 44,000 LB	0	78
S 330H001	REAR DRIVE AXLE-SINGLE & TANDEM	STANDARD TRACK	0	0
O 331529	REAR DRIVE AXLE RATIO	5.29	0	0
S 330U98	REAR AXLE LUBE PUMP	NO LUBRICATION PUMP	0	0
S 338001	DRAIN PLUG-REAR AXLE	MAGNETIC, DRAIN AND FILL	0	0
S 339001	REAR AXLE LUBRICANT	STANDARD	0	0
O 3500004	REAR SUSPENSION	HENDRICKSON HMX-460 SUSP @ 54" AS	0	8

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S 351013	REAR SUSPENSION BEAMS	54 INCH STEEL RUBBER BUSHED	0	0
O 3560001	REAR DRIVE AXLE STOPS	REAR BUMPSTOPS REQUIRED	0	0
S 358005	TORQUE RODS	LONGITUDINAL & TRANSVERSE - RUBBER BUSHED	0	0

AUXILIARY AXLES

O 3520003	AUX AXLE PREP FOR CUSTOMER SUPPLIED AXLE	PUSHER PREP WITH NO ADDITIONAL AIR OR CONTROLS	0	0
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BRAKES

S 729002	AIR LINES-PARKING BRAKE, CHASSIS	AIR LINES CHASSIS PARK BRAKE	0	0
S 741047	BRAKE CONTROL SYSTEM	BENDIX ABS	0	0
S 782014	BRAKE VALVE-PARKING CONTROL	ONE PUSH - PULL TYPE W/YELLOW DIA-TRUCK	0	0
S 7510003	BRAKES-FOUNDATION, FRONT AXLE	ARVIN MERITOR 16.5X6 QP	0	0
S 753018	BRAKE CHAMBERS-FRONT AXLE	CAM-STANDARD	0	0
S 754009	BRAKE SLACK ADJUSTERS-FRONT AXLE	ARVIN MERITOR AUTOMATIC	0	0
S 755001	DUST SHIELDS - FRT BRAKES	DUST SHIELDS - FRONT BRAKES	-1	0
S 901001	BRAKE DRUM-FRONT	CAST IRON	0	0
S 7610003	BRAKES-FOUNDATION, REAR AXLE	ARVIN MERITOR 16.5X7 Q PLUS	0	0
S 763019	BRAKE CHAMBERS-REAR AXLE	CAM-STANDARD	0	0
S 764013	BRAKE SLACK ADJUSTERS-REAR AXLE	ARVIN MERITOR AUTOMATIC,TANDEM AXLE	0	0
S 765001	DUST SHIELDS - REAR BRAKES	DUST SHIELDS - REAR BRAKES	0	0
S 781012	BRAKE CHAMBERS-PARKING, TYPE/VENDOR	CAM TYPE MGM STOPGARD (4)	0	0
S 910001	BRAKE DRUM-REAR	CAST IRON	0	0
S 736001	CHECK VALVES-BRAKE SYSTEM	STANDARD	0	0

CHASSIS

S 400209	WHEELBASE	209 INCHES	0	0
O 402074	FRAME-REAR OVERHANG	74"	42	-150
S 403012	FRAME RAILS	3/8" VARIABLE DROP STEEL, EXT B	0	0
S 406001	FRAME-REAR CUT-OFF	STRAIGHT	0	0
S 408001	FRAME CROSSMEMBER-ENGINE FRONT	STEEL	0	0
S 409002	FRAME CROSSMEMBER-CENTER	ALUMINUM	0	0
S 4110002	FRAME CROSSMEMBER-END CLOSING	ALUMINUM MEMBER-IF REQUIRED	0	0
S 4120002	FRAME BOLTS	HUCKSPIN RR SUSP & CROSSMEMBERS	0	0
S 414002	FRAME CROSSMEMBER-SUSPENSION	ALUMINUM MEMBERS	0	0
S 4150002	FRAME CROSSMEMBER-OVERHANG	ALUM CMBR ROS - IF REQUIRED	0	0

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S 4160001	FRAME REINFORCEMENT	OVERSLUNG X-MEMBER INTEGRAL W/ENG MOUNTS	0	0
O 430998	FUEL TANK-LEFT	DELETE LHS FUEL TANK	-29	-59
O 431020	FUEL TANK-RIGHT	75 GAL 26" DIA UNPAINTED ALUMINUM	29	59
O 431T001	FUELTANK MOUNTING RHS	FUEL TANK MTD FWD RHS - STD (IF PROVIDED)	0	0
O 431U003	FUEL TANK MOUNTING HEIGHT RHS	FUEL TANK SPACED 2, DROPPED 2	12	0
S 435001	FUEL TANK OVERFLOW PIPE	STANDARD VENT	0	0
S 435T98	TANK CHECK VALVE	NO BALL CHECK VALVE(S) PROVIDED	0	0
S 436001	FUEL LINES	SAE J844 NYLON TUBING	0	0
O 441001	FUEL TANK STRAP/ SUPPORT RIGHT	STEEL	0	0
S 460001	BUMPER-FRONT	STEEL PAINTED	0	0
S 480002	TOWING DEVICE-FRONT	TWO REMOVABLE TOW PINS	0	0
S 711002	AIR TANK-BRAKE	STEEL TANKS FOR TANDEM AXLE	0	0
S 711U98	AIR TANK MOUNTING	AIR TANKS IN STD POSITION	0	0
O 7130001	AIR DRYER	WABCO 1800P	0	0
O 713T003	AIR DRYER MOUNTING LOCATION	AIR DRYER MTD OUTSIDE RAIL, RHS	0	0
S 715002	WET TANK DRAIN	BENDIX D/V-2 AUTOMATIC	0	0
O 715T002	AIR RESERVOIR DRAIN SYSTEM	PULL CORDS, ALL TANKS	0	3
S 722005	BRAKE VALVES-REAR AXLE	STANDARD	0	0
S 724001	AIR LINES-CAB	SAE J844 NYLON TUBING	0	0
S 728001	AIR LINES-MAIN, CHASSIS	SAE J844 NYLON TUBING	0	0
S 783001	BRAKE MODULATION SYSTEM-PARKING	PARK BRAKE RELAY/INVERSION VALVE	0	0
O 812083	BATTERY BOX	STL TRAY ALUM LID (3) CAP 14.5" LH MTD	-10	0
S 812T01	BATTERY BOX POSITION	BOX LOCATED AS FAR FWD AS POSSIBLE	0	0
O 812U008	BATTERY BOX HEIGHT	TOP OF BATTERY BOX 10.5" BELOW TOP OF RAIL	10	0
S 8140001	BATTERY SHUT-OFF SWITCH	BATTERY SHUT OFF W/ LOCK OUT	0	0

CAB EXTERIOR

S 4510001	STEP-CAB ACCESS, CAB MOUNTED	DUAL SELF CLEANING CAB ENTRANCE STEPS	0	0
S 462004	MUD FLAPS-FRONT WHEEL	FRONT FLAPS	0	0
S 502001	CAB DOORS	STEEL	0	0
S 502T98	DOOR CHECK STRAPS	WITHOUT DOOR CHECK STRAP	0	0
S 510003	GLASS	ALL GLASS TINTED	0	0
O 622070	MIRRORS-DUAL WEST COAST	MOTO, HEATED,LH&RH AERO, BRIGHT FINISH	6	0
S 622U02	MIRROR ARM TYPE	RETRACTABLE ARMS, CHROME/STAINLESS STL	0	0

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S 623026	MIRRORS-AUXILIARY	L&R 8" SS/OFFSET BALL STUD GROTE 12173	0	0
S 623M01	MIRRORS, DOWN VIEW	DOWN VIEW	0	0
S 624012	GRAB HANDLES-ENTRY	MEETS FMCSR 399 REQUIREMENTS	0	0
S 626001	REFLECTORS - SIDE	AMBER REFLECTORS	0	0
S 630026	HORN-AIR	PAINTED TWIN MOUNTED UNDER CAB	0	0
S 631001	HORN-ELECTRIC	SINGLE	0	0
S 661001	CAB TILT MECHANISM-C.O.E.	HYDRAULIC TILT	0	0
S 6620001	CAB LATCH/HOLDDOWN-C.O.E.	HYDRAULIC CAB LATCHES	0	0
S 6720001	GRILLE	AUTOCAR GRILLE	0	0
S 675001	GRILLE EQUIPMENT	BUG SCREEN MOUNTED BEHIND GRILLE	0	0
S 6900001	FENDERS-FRONT	IMPACT RESISTANT POLY FENDER MTD. TO CAB	0	0
S 6910001	FENDER EXTENSIONS-FRONT	IMPACT RESISTANT POLY FENDER	0	0

CAB INTERIOR

S 1130002	CAB INTERIOR ENHANCEMENTS	05 INTERIOR UPGRADES	0	0
S 137002	GAUGE-HOURMETER	ELECTRONIC, INTEGRAL WITH TACHOMETER	0	0
S 3800001	STEERING WHEEL	16" DIA. WHEEL, 2 SPOKE	0	0
S 381001	STEERING COLUMN	FIXED POSITION	0	0
S 520234	SEAT-DRIVER	NATIONAL CUSH II LOW BACK, AIR RIDE	0	0
S 521110	SEAT-PASSENGER	FIXED TYPE, LOW BACK	0	0
S 522003	SEAT BELTS-DRIVER	THREE POINT RETRACTABLE	0	0
S 523003	SEAT BELTS-PASSENGER	THREE POINT RETRACTABLE	0	0
S 526014	SEAT INSERT	BLACK CORDURA	0	0
S 533013	CAB PANELS-DOOR	BOTH SIDES	0	0
S 538001	CARPET & MAT	MAT WITH FOAM BACK	0	0
S 5390001	CAB INTERIOR	AUTOTUFF INTERIOR UPHOLSTERY	0	0
S 5400001	CAB PANELS-INTERIOR TRIM	GREY INTERIOR TRIM	0	0
S 541004	CAB PAINTING-INTERIOR	CODE 980 --- EXTERIOR COLOR	0	0
S 542016	SUN VISOR-INTERIOR	LEFT AND RIGHT HAND COLOR KEYED	0	0
S 543011	ARM REST	LEFT AND RIGHT HAND ARM REST	0	0
S 544001	COAT HOOK	ON BACK PANEL	0	0
S 5490001	CUSTOM TRIM FALL 2004	CUSTOM TRIM FALL 2004	0	0
S 5500001	CENTER CONSOLE	CENTER CONSOLE	0	0
S 5510001	REAR CONSOLE	REAR CONSOLE	0	0
S 547001	INSULATION-CAB THERMAL	THERMAL INSULATION KIT FOR CAB	0	0
S 5680001	ROOF COMPARTMENT	OVERHEAD CONSOLE	0	0
S 570009	INSTRUMENT PANEL	COLOR KEYED	0	0

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S 5930001	ASH TRAY	ASHTRAY MTD IN CONSOLE	0	0
S 594001	CIGAR LIGHTER	DASH MOUNTED	0	0
S 624U01	INTERIOR ENTRY GRAB HANDLES	LH & RH MTD TO INSIDE OF A-PILLAR	0	0
S 630B001	AIR HORN PULL CORDS	SINGLE HORN LANYARD	0	0
S 864001	LAMPS-CAB INTERIOR	DOMELAMP	0	0

CAB CLIMATE CONTROL

O 060001	CAB TEMPERATURE SYSTEM	AIR COND INTEGRAL WITH HEATER/DEFROSTER	138	-27
O 6000002	CAB TEMP SYSTEM	INTEGRAL AIR CONDITIONING W/ HEATER / DEFROSTER	0	0
S 602003	HEATER HOSES	SILICONE HOSES W/HTR SHUTOFF VALVE ENG.	0	0
S 602C01	HEATER HOSE CLAMPS	CONSTANT TORQUE HOSE CLAMPS	0	0
S 602S98	HEATER SHUT OFF	STANDARD HEATER SHUTOFF VALVES	0	0
S 602T98	HOSE WRAP	SPECIAL HOSE WRAP NOT PROVIDED	0	0
O 608002	REFRIGERANT TYPE	R134A	0	0
O 611003	AIR CONDITIONER COMPRESSOR	STANDARD	0	0
O 612001	AIR CONDITIONER CONDENSER	STANDARD	0	0
O 615004	AIR CONDITIONER PIPING	R134A HOSES WITH CRIMPED FITTINGS	0	0

GAUGES & INSTRUMENTATION

S 0570002	INSTRUMENTS SALES PKG	05 STANDARD GAUGES	0	0
S 1360001	TACHOMETER/RPM TACHOGRAPH	ELECTRONIC TACHOMETER WITH HOURMETER	0	0
S 1380001	GAUGE-ENGINE OIL PRESSURE	ELECTRONIC ENGINE OIL PRESSURE	0	0
S 1400001	GAUGE-ENGINE COOLANT TEMPERATURE	ELECTRONIC ENGINE COOLANT TEMP.	0	0
S 225009	AIR INTAKE RESTRICTION INDICATOR	GRADUATED, AIR CLEANER MOUNTED	0	0
S 288009	GAUGE-TRANSMISSION OIL TEMPERATURE	TRANS TEMP WARNING LIGHT & BUZZER	0	0
S 337001	INTERAXLE DIFFERENTIAL LOCKOUT CONTROLS	DASH MOUNTED WARNING LIGHT & CONTROL	0	0
S 4390001	GAUGE-FUEL LEVEL	ELECTRONIC FUEL LEVEL	0	0
S 5770001	SPEEDOMETER/ODOMETER	ELECTRONIC WITH ODOMETER	0	0
S 579002	SPEEDOMETER DRIVE	ELECTRIC FROM TRANSMISSION	0	0
S 7030001	GAUGE-AIR SYSTEMS PRESSURE	DUAL ELECTRONIC AIR SYSTEM PRESSURE	0	0
S 704002	LOW AIR WARNING DEVICE	AUDIBLE AND VISUAL	0	0
S 782L01	PARK BRAKE INDICATOR	PARK BRAKE INDICATOR LIGHT	0	0

LIGHTING

S 836005	LAMPS-HEAD	SINGLE ROUND HALOGEN	0	0
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S 8390002	STOP-TAIL HARNESS	OMIT TAIL LAMPS, BB CONN @ EOF	0	0
S 8410002	LAMPS-TURN SIGNAL -FRONT	LED FRONT TURN SIGNALS	0	0
S 844016	SWITCH-TURN SIGNAL & FLASHER	NON-CANCELLING W/TRANSISTORIZED FLASHER	0	0
S 8510002	LAMPS-MARKER	AMBER LED ROOF MARKERS	0	0
S 859001	LAMPS-RUNNING	DAYTIME	0	0
S 8700001	CIRCUIT PROTECTION DEVICE	AUTO CIRCUIT BREAKERS	0	0

RADIO/MISC

S 509001	KEY & LOCK SETS-IGN/DOORS	DOOR & IGNITION SAME - UNIQUE PER TRUCK	0	0
O 511003	VISIBILITY WINDOW	WITH FRESNEL LENS, RH DOOR	4	0
O 5900002	RADIO	AM/FM / CD STEREO, ROOF MTD	13	-4
O 5910001	ANTENNA/POWER SUPPLY	AM/FM ANTENNA, B-PILLAR MTD (SIDE OPP. EXHAUST)	2	0
O 596005	RADIO SPEAKERS	2 DUAL CONE SPEAKERS	0	0
S 628017	WINDSHIELD WIPER	DUAL ELECTRIC MOTOR, INTERMITTENT	0	0
S 629003	WINDSHIELD WASHER	STANDARD	0	0
S 8730001	WIRING-CAB	RADIO SHUT-OFF IN REVERSE	0	0

FRONT TIRES / WHEELS

S 9210001	HUB CAPS - FRONT AXLE	CR ZYTEL HUBCAP	0	0
S 9400001	WHEEL OIL SEALS-FRONT	SCOTSEAL PLUS XL	0	0
S 904011	HUBS-FRONT	STEEL HUB PILOTED,285MM BOLT CIRCLE	0	0
S 905111	WHEELS-DISC FRONT	22.5X9.0 ACCURIDE STEEL, HP, 5.25" INSET, #29039, 5HH	0	0
O 905T01	SPARE WHEELS FRONT	ONE (1) SPARE TO MATCH SELECTED FRT WHEELS	0	0
S 907002	FRONT TIRE QUANTITY	2 FRONT TIRES	0	0
O 907T001	SPARE FRONT TIRE QUANTITY	1 SPARE FRONT TIRE	0	0
S 930469	TIRE SIZE & LOAD RANGE - FRONT	315/80R22.5 L-20PR TUBELESS TYPE RADIAL	0	0
O 9310001	TIRE MANUFACTURER & TREAD - FRONT	MICHELIN XZY-3	26	0
O 931T001	SPARE FRONT TIRE	ONE (1) SPARE MTD ON WHEEL TO MATCH FRT TIRES	0	0
S 943001	WHEEL BEARINGS-FRONT	STANDARD	0	0

REAR TIRES / WHEELS

S 908008	REAR TIRE QUANTITY	8 REAR TIRES	0	0
O 908T001	SPARE REAR TIRE QUANTITY	1 SPARE REAR TIRE	0	0
S 9130001	HUBS-REAR	IRON HUB, HP 10 STUD	0	0
O 914105	WHEELS-DISC REAR	22.5X9.00" ACCURIDE STEEL, HP, #29300	0	256

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O 914T01	SPARE WHEELS REAR	ONE (1) SPARE TO MATCH SELECTED REAR WHEELS	0	0
O 933469	TIRE SIZE & LOAD RANGE - REAR	315/80R22.5 L-20PR TUBELESS TYPE RADIAL	0	0
O 9340001	TIRE MANUFACTURER & TREAD - REAR	MICHELIN XZY-3	0	304
O 934T001	SPARE REAR TIRE	ONE (1) SPARE MTD ON WHEEL TO MATCH RR TIRES	0	0
S 944001	WHEEL BEARINGS-REAR	STANDARD	0	0
S 9410001	WHEEL OIL SEALS-REAR	SCOTSEAL PLUS XL	0	0

AUXILIARY AXLE TIRES

S 9090000	TAG/PUSHER TIRE QUANTITY	NO TIRES PROVIDED, TAG/PUSHER AXLE	0	0
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PAINT

S 950001	CAB PAINT SCHEME	SINGLE COLOR PAINT	0	0
O 9550002	CAB PAINT TYPE	CAB FIRST COLOR OTHER THAN STD, NON METALLIC	0	0
S 956025	CHASSIS PAINT TYPE	TWO PART POLYEURETHANE ENAMEL	0	0
A 980QXX	CAB COLOR-FIRST	WHITE N0006	0	0
S 9861U1	CHASSIS COLOR	BLACK P3036	0	0
S 987949	BUMPER COLOR	SAME AS CHASSIS,UNPAINTED ALUM OR CHROME	0	0
S 988401	DISC WHEEL OR RIM COLOR	STEEL, E-COAT WHITE / ALUM-UNPAINTED	0	0
S 989949	AXLE WHEEL END COLOR	SAME AS CHASSIS	0	0

ADDITIONAL OPTIONS

S 899002	WARRANTY	STANDARD WARRANTY	0	0
S 899A005	TRANSMISSION WARRANTY	ALLISON EDGE 4YR. WARRANTY	0	0
O 899B003	ENGINE WARRANTY	CUMMINS 5 YR EXT. WARRANTY ISC/L	0	0
S 899S98	EPA SURCHARGE	NO EPA SURCHARGE	0	0
O 978060	FLOOR PLAN	60 DAYS FLOORING	0	0
S 969V98	ADDITIONAL PRICE ADJUSTMENT	NO ADDITIONAL PRICE ADJUSTMENT	0	0

OTHERS

S 001005	MODEL SERIES	WX TRUCK SERIES	0	0
S 003004	MODEL CONFIGURATIONS	TANDEM AXLE MODELS	0	0
S 133003	ACCELERATOR PEDAL & LINK	WILLIAMS ACCELERATOR	0	0
S 223003	AIR CLEANER OUTLET PIPING	STANDARD CLAMPS	0	0
S 459005	BUMPER LOCATION	STANDARD POSITION	0	0
S 5290001	RELOCATED REWARDED FALL 2004	SEATS RELOCATED REARWARD	0	0
S 616003	HEATER/AIR CONDITIONER DUCTING	NON SLEEPER	0	0

Prepared By MIKE MILLER
 Quote Id : City of Lompoc CA
 Phone : 765-584-7278
 Order : 80009142
 Lead Unit Sales Order : 80009142

Prepared For BARRY TORGERSON
 MTM (LOMPOC)

S 636001	LICENSE PLATE MOUNTING-FRONT	TO BUMPER	0	0
S 720002	BRAKE VALVE & PEDAL	FLOOR MOUNTED PEDAL - STANDARD	0	0
S 740004	CERTIFICATION COMPLIANCE	US SALE-US COMMERCE-34 MPH AND UP	0	0
S 801002	ELECTRICAL SYSTEM POLARITY	NEGATIVE GROUND 12VOLT	0	0
S 811002	BATTERY CABLES	STANDARD	0	0
S 822001	STARTING SWITCH	STANDARD	0	0
S 958003	DEALER CODE	AUTOCAR TRUCK DEALER	0	0
O 9720001	CERTIFICATION-EMISSIONS	COMPLIES WITH 2007 U.S. EMISSIONS	0	0
S 974004	CERTIFICATION-EXTERIOR NOISE	COMPLIES W/U.S. & CANADA 80DB/A AT 50FT	0	0

SUB TOTALS

BASE WEIGHT	9,182	6,720
FACTORY OPTION WEIGHT	245	471
DEALER OPTION WEIGHT	0	0

TOTALS

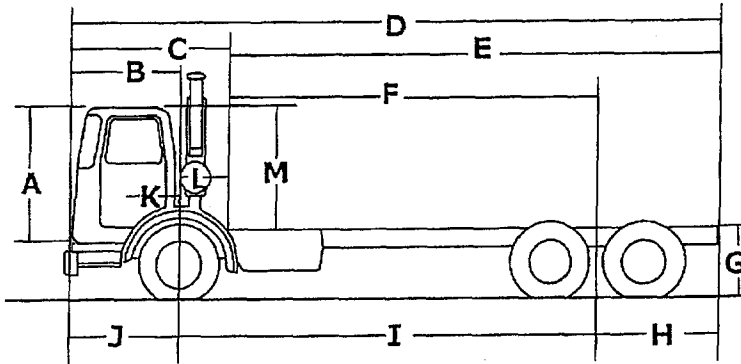
TOTAL WEIGHT(LB)	9,427	7,191	16,618
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11/12/2007

Dimensions



Dimension	(in)	Description
A	63.00	CAB HEIGHT
B	55.00	BUMPER TO BACK OF CAB
C	83.00	EFFECTIVE BUMPER TO BACK OF CAB
D	344.00	OVERALL LENGTH
E	261.00	EFFECTIVE CAB TO END OF FRAME
F	187.00	EFFECTIVE CAB TO REAR AXLE
G	43.25	UNLADEN FRAME HEIGHT
H	74.00	OVERHANG
I	209.00	WHEELBASE
J	61.00	BUMPER TO FRONT AXLE
K	-18.00	DRIVER CENTER OF GRAVITY
L	22.00	EFFECTIVE FRONT AXLE TO BACK
M	63.00	OVERALL HEIGHT
N	0.00	FRONT FRAME EXTENSION

SPECIFICATION SUMMARY

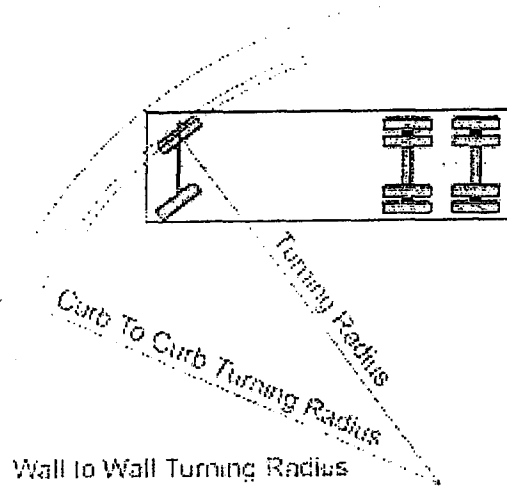
Model	WX64
Engine	ISL '07, 345HP@2100 / 1150 FT-LBS, CUMMINS
Transmission	ALLISON 4GC 4500 RDS 5 SPEED
Rear Axle	ARVIN MERITOR RT44-145 44,000 LB
Rear Axle Ratio	5.29
Rear Tire	315/80R22.5 L-20PR TUBELESS TYPE RADIAL

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11/12/2007

Turning Radius



	Dimension(ft)	Description
A	35.20	TURNING RADIUS
B	72.47	CURB TO CURB TURNING DIAMETER
C	77.07	WALL TO WALL TURNING DIAMETER

SPECIFICATION SUMMARY

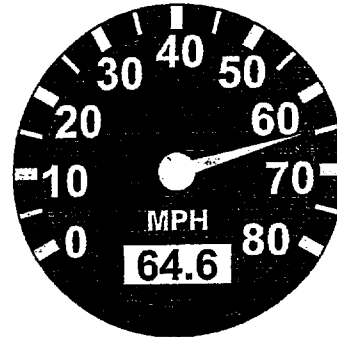
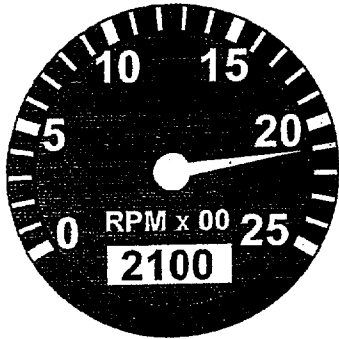
Model	WX64
Engine	ISL '07, 345HP@2100 / 1150 FT-LBS, CUMMINS
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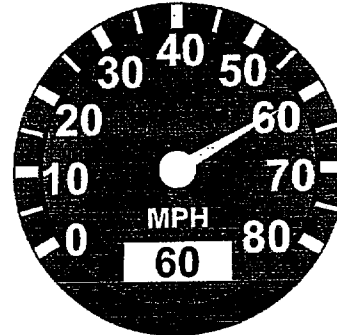
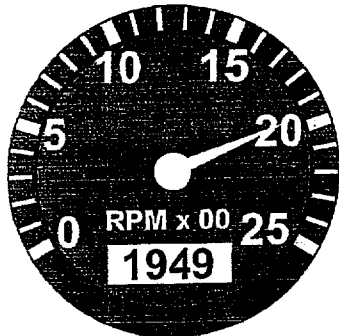
Prepared For BARRY TORGERSON
 MTM (LOMPOC)

Top Speed

Speed At Maximum RPM



RPM At 60MPH



	MPH	RPM
Top Speed	64.6	2100
Cruise Speed	60.0	1949
Minimum Of Engine Range	36.9	1200
Maximum Of Engine Range	64.6	2100
Minimum Of Economy Range	46.2	1500
Maximum Of Economy Range	55.4	1800

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MTM (LOMPOC)

SPECIFICATION SUMMARY

Model	WX64
Engine	ISL '07, 345HP@2100 / 1150 FT-LBS, CUMMINS
Transmission	ALLISON 4GC 4500 RDS 5 SPEED
Rear Axle	ARVIN MERITOR RT44-145 44,000 LB
Rear Axle Ratio	5.29
Rear Tire	315/80R22.5 L-20PR TUBELESS TYPE RADIAL
Tire Revolution	485



 **COPY**

City of Lompoc

**INVITATION TO
BID NO. 2452 – Rear Loader Refuse Truck
Dated: 8/1/2007 11:44 AM**

The City of Lompoc is currently soliciting bids for two Rear Loader Refuse Truck. Bids must be received by **2:00 pm, August 23, 2007**

BIDS MUST BE DELIVERED TO: City of Lompoc
Purchasing Division
1300 West Laurel Ave.
Lompoc, Ca 93436

In order to be sure that you are listed as an "Registered Bidder" and advised of any changes please complete and fax to this office the "Registered Bidder Information Sheet" today before you prepare and send your bid. Not returning the Registered Bidder Information Sheet may be a reason for disqualification.

It is the responsibility of the bidder/proposer to see that any bid/proposal submitted shall have sufficient time to be received by the Purchasing Office prior to bid/proposal opening time. **Late bid/proposal will be returned to the bidder/proposer unopened.** The receiving time in the Purchasing Office will be the governing time for acceptability of bid/proposals. Bid/proposals will not be accepted by telephone or facsimile machine. All bid/proposals must bear original signatures and figures.

BIDS WILL NOT BE ACCEPTED BY TELEPHONE OR FACSIMILE MACHINE.



Ray Ambler
Purchasing and Materials Manager

Refuse Truck with Rear Load and Automated Packer Body
Specification No. FLT-07-010

1.0 SCOPE AND INTRODUCTION:

The following minimum specifications are intended to describe **two (2) truck cab and chassis, with rear load automated refuse packer body installed and ready for service**. The unit proposed shall be a new unused current production year model and will have all standard equipment shown in the manufacturer's printed literature unless a specific and installed option makes the standard equipment unnecessary. The unit as proposed and built will conform to all applicable state, federal and local regulations in effect at the time of delivery. **If any of the equipment proposed varies from the specifications, such variation(s) must be listed in writing and attached as part of the Bid. If variation(s) list is not complete or if the information furnished does not substantiate that the Bid/Specification requirements are met, this will be cause for Bid rejection.**

Bidder shall supply CARB Executive Orders certifying all proposed engine(s), Reference: Item 3.8, Engine with your bid.

Each bidder shall show all warranties and any cost associated with servicing said warranties. Coverage shall be shown for the complete unit, basic truck and installed equipment and accessories.

This specification describes a hydraulically actuated packer body of the rear loading type to perform the work assigned. The body shall be capable of compacting and transporting refuse to a landfill or transfer station and dispensing the load by means of hydraulically ejecting the load from the body.

2.0 GENERAL REQUIREMENTS:

- 2.1 The chassis engine shall power all components of the machine. The use of additional engine(s) shall not be acceptable and be considered non-responsive due to increased costs of maintenance and fuel.
- 2.2 Manufacturing, materials, and design practices. It is intended that the manufacturer in the selection of components will use material and design practices that are the best available in the industry for the type of operating conditions to which the unit(s) will be subjected. Engine, suspension, wheels, tires and other component parts shall be selected to give maximum requirements of this specification. All parts, equipment and accessories shall conform in strength, quality of material and workmanship to recognized industry standards.
- 2.3 Manufacturer's specification.
Complete specifications, published literature and photos or illustrations of unit proposed shall be furnished with Bid/Offer.

Only new models in current production which are catalogued by the manufacturer and for which printed literature and specifications are available will be accepted.

- 2.4 Manufacturer's standard equipment.
All equipment and components listed as standard by the manufacturer for model proposed. Shall be furnished whether or not such items are detailed herein, e.g., special wrenches, tool kits, jacks – adequate to safely lift the vehicle when loaded to rated capacity, etc. Optional equipment as necessary to meet the following requirements of this specification shall also be supplied.

Offerors shall comply with all applicable federal, state and local laws and regulations.

Specifications on the following pages are written with intent to meet all applicable documents (see section 2.16) but the final certification to comply shall rest with the vendor and not the City of Lompoc. Should requirements as specified not comply, the manufacturer is required to refigure and revise the specifications to meet all laws, rules and regulations where it applies to items such as the ratings of axles, tires, wheels, brakes, batteries, cooling capacity, etc., and the City of Lompoc is to be notified thereof.

Purchaser will not accept any part, component or system, which is not an established standard product of the proposing manufacturer. By this is meant that any item or assembly which, relative to the supplying manufacturer's standard line of products, could be described as "first of its kind", "experimental", "only one of its kind to be built", "especially modified to comply with this specification", "prototype", or synonymous categoric descriptions, shall not be acceptable. All parts and components of the system offered and delivered must conform to the manufacturer's standard production or be off-shelf available as a standard hardware production item.

- 2.5 Manuals and Software. Furnish two (2) complete sets of operation, parts, maintenance, and repair manuals including electrical schematics for cab and chassis as well as packer body system. This shall include diagnostic software for interface with cab, chassis, and engine and is to be compatible for use with a 9-pin RS232 serial port laptop computer.
- 2.6 Training. The successful contractor shall provide a qualified, factory-authorized service representative to give instructions to the operators and maintenance personnel to assure correct operation of the machines after the vehicle has been readied for service by City personnel. Duration of training shall be determined by City of Lompoc representative.
- 2.7 Hose and wiring routing. All hoses, wires and pipes shall be routed to be clear of heat sources and shall be routed, secured otherwise protected from any present or potential source of snags, abrasions or sharp edges.
- 2.8 Control labeling. All operator controls shall be clearly labeled as to function and operational position(s).
- 2.9 License Plates. Exempt license plates and certified weight certificate, shall be furnished to the City at the time of vehicle delivery before payment can be made. Vehicle shall be registered to: City of Lompoc, 1300 W. Laurel Ave., Lompoc, CA 93436. Vendor shall obtain unit number and Lien Holder (if applicable) information from city representative before registering vehicle.
- 2.10 Pre-delivery inspection. At the Vendor's expense; shall provide travel, separate lodging, and meals for three (3) City Representatives for the purpose of pre-inspection at the manufacturing site. The pre-delivery inspections shall be accomplished when the unit(s) are more than 80% (percent) complete.
- 2.11 Warranty. The unit shall have a minimum of one (1) year warranty against defects in materials and workmanship. The warranty shall cover both parts and labor and begin at the in-service date. Any extended warranty packages for the cab & chassis and body assembly shall be provided.

- 2.12 Rechargeable fire extinguisher with metal valves (not plastic) and bracket, 5 LB., day chemical located readily accessible to driver. **Note: Fire extinguisher must have current certification tag attached.**
- 2.13 Backup indicator, an audible device, which can be heard above 107 dba of noise when transmission is placed in reverse gear. The truck will be equipped two strobe beacons, one on the truck cab and one on the top rear of the packer body tailgate.
- 2.14 A triangle flare kit (Ref. Grote 71422) with mounting bracket located out of way but readily accessible by driver.
- 2.15 Before delivery to the City of Lompoc and before acceptance by the City – all spring "U" bolts, etc., shall be re-torqued to factory specification by hand using torque wrench. (Impact wrench – not acceptable).
- 2.16 Applicable documents and certifications:
- Federal Motor Vehicle Safety Standard, Department of Transportation.
 - State of California Motor Vehicle Code.
 - State of California General Industrial Safety Orders
 - State of California Health and Safety Code, Motor Vehicle Pollution Control.
 - California Occupational Safety and Health Act (O.S.H.A.) and the E.P.A.
 - Society of Automotive Engineering Standards.
 - American Society of Mechanical Engineers (A.S.M.E.).
 - American National Standards Institute (A.N.S.I.)
 - California Air Resources Board (ARB) engine particulate matter compliance
- 2.17 Quantities (additional), The quantity is based upon current known requirements and is subject to increase at the same terms and conditions if mutually agreeable to both parties.
- 2.18 Cooperative Purchasing
If mutually agreeable to both parties, the use of any result contract may be extended to other government agencies. It shall be understood that all terms and conditions as specified herein shall apply. The City of Lompoc will not be an agent, partner, or representative of any other government agency as it relates to this specification; and is not obligated or liable, including, but not limited to, payment for an order placed by any other government agency.
- 3.0 TECHNICAL REQUIREMENTS – CAB & CHASSIS:**
- 3.1 CAB AND CHASSIS GVWR: 56,000
Specifications cover a diesel-fueled, three-axle, tilt cab and chassis that incorporates the latest improvements and technologies, and ready for installation of automated refuse packer and body.
- 3.2 GVWR: 56,000 pounds or greater
- 3.3 Cab to Axle Dimension: C/A dimension shall be the shortest possible consistent with proper weight distribution. Actual dimension to be specified by automated packer body manufacturer. Vehicle shall have proper weight distribution to obtain maximum front and rear axle weight equally.
- 3.4 The frame shall be heavy duty, Constructed of alloy steel, with an RBM of not less than 2,000,000 inch pounds per rail. The bidder shall specify the RBM of frame.

- 3.5 The frame shall have a sufficient number of cross members to provide torsional rigidity and to support the frame rails where the fuel tank(s) and rear suspension assemblies shall be mounted. A cross member shall be installed at the extreme end of the frame.
- 3.6 If heat-treated frame is provided, it shall not be heated or welded during the body installation.
- 3.7 Two (2) tows hooks supported and braced into frame rails shall be provided and installed, one on each front frame horn. Hooks shall be capable of towing fully loaded vehicle.
- 3.8 ENGINE:
The refuse trucks offered shall comply with the California Air Resources Board (ARB) definition of the Best Available Control Technology (BACT) for reducing diesel toxic particulate matter (PM) by providing certified engine(s) 2007 model year standard of 0.01 gram of PM per brake horsepower-hour (g/bhp-hr). Each bidder shall show all warranties and any cost associated with servicing said warranties. A ultra-low sulphur fuel diesel fueled, 11 liter, electronically controlled, turbo charged, after cooled engine developing a minimum of 345 horsepower @ 2,100 RPM and with 1150 lbs.-ft of torque @ 1,200 RPM. Must have replaceable cylinder liners. To minimize costs for stocked parts, reduce mechanic training, and standardization of diagnostic programs and equipment: Acceptable engines are Cat, or Cummins. Engine must comply with current California Environmental Protection Agency Standards and Regulations. Vendor shall supply CARB Executive Orders certifying all proposed engine(s).
- a. The oil filter(s) shall be a spin on type.
 - b. The air cleaner shall be a heavy duty Donaldson 15" dry-type with a replaceable element. It shall have the largest filter area available. There shall be a Turbo II pre-cleaner installed.
 - c. The vehicle shall have an electronic tachometer and electric hour meter. The hour meter shall be wired to the fuel solenoid switch. Wiring the hour meter to the ignition switch shall not be accepted.
 - d. An automatic safety shutdown system shall be installed. The system shall be of the engine manufacturers design to prevent engine damage due to low oil pressure, high water temperature and low coolant level. The system shall be an intrical part of the engines electronic control unit.
- 3.9 COOLING SYSTEM: The cooling system shall be heavy duty, pressurized, and thermostatically controlled. The vehicle shall have a thermostatically controlled or viscous, clutch fan.
- a. The cooling system shall be equipped with a de-aeration system. Gates EC/R hoses shall be used throughout. The radiator shall have a minimum of three (3) inch core.
 - b. The radiator shall be capable of dissipating a minimum of 350,000 BTU's per hour. The radiator shall not have shutters. The coolant shall be extended life type antifreeze. The system shall be protected by a spin on coolant filter
 - c. The radiator shall be capable of meeting above requirements with incoming air preheated by a transmission cooler and with an ambient air temperature of 115 degrees Fahrenheit.

- 3.10 FUEL SYSTEM: Shall have a minimum full tank capacity of 75 gallons, and have both primary and secondary fuel filters.
- 3.11 EXHAUST SYSTEM: The exhaust system shall be single exhaust system, vertically mounted, with the appropriate connections, guards and/or shielding. The shield shall afford 360 degrees protection to prevent injury to operators or mechanics. The exhaust pipe shall be mounted on the right side of the chassis and shall have a turnout, rain cap is not acceptable. Exhaust outlet shall be not less than 11 feet from ground level.
- 3.12 ELECTRICAL:
- a. The vehicle shall have a 12-volt negative ground system and a remote shut off at the battery box.
 - b. The batteries shall be three (3) Group 31 Top Stud Low Maintenance. The batteries shall be the highest amperage available. The battery box shall be frame mounted on the left hand side, as per body manufacturer layout, behind the front wheels. The bidder shall specify the number of batteries as well as their individual and combined ampere-hour rating.
 - c. Automatic resetting circuit breakers on all circuits.
 - d. The starting and charging circuits shall be a 12-volt system. 24-volt systems are not acceptable.
 - e. The alternator shall be a minimum 160-ampere, Delco Remy or approved equal. The bidder shall specify make, model, and amperage of the alternator. Less than 160-ampere alternator is unacceptable.
 - f. All wire, terminals or connectors exposed to dirt and moisture shall be adequately protected. Whenever possible, wires shall be grouped into harnesses and properly supported on rigid members to prevent abrasion and flexural failure.
 - g. All vehicle clearance, marking, stop and taillights shall conform to current State and Federal codes. These lights, with the exception of cab mounted clearance lights shall be light emitting diode (LED) type. Headlamps shall be halogen type sealed beam. Bidder shall specify make, model of lights. If specified type lights are not available, please explain why they are not available and what type of lights will be included.
- 3.13 TRANSMISSION:
- a. Transmission shall be an Allison 4500 RDS, or approved equal. Application to be compatible with manufacturers brake package. Transmission shall be equipped with low transmission oil level sensor. PTO function to be operated through the Allison transmission ECU.
 - b. The transmission shall be set up with Allison vocational codes: refuse and construction I Group 77 and vocational package 152, or equivalent
 - c. The transmission shall have a frame cross member support at the rear.
 - d. Transmission oil cooler shall be the standard oil cooler integral to the Allison transmission.

3.14 FRONT AXLE:

- a. Equal to Rockwell FL941 with minimum wheel cut of 40 degrees and 18,000 pounds minimum rated capacity.
- b. Springs shall have a minimum rated capacity of 18,000 pounds
- c. Power steering.
- d. STEMCO hub seals with visible oil level.
- e. Shock absorbers, rated for axle

3.15 FRONT WHEELS and TIRES: Two (2) each 315/80R22.5, 20 Ply, Load Range L, Michelin XZY-2s tubeless radials. Wheels to be steel, disc type, "Budd" style commensurate with tire size. One (1) each spare front wheel and tire to be included.

3.16 REAR AXLES, WHEELS AND TIRES:

- a. Rear axles shall be tandem axle dual drive, minimum capacity rating at 44,000 pounds capacity. Rear axle shall be single reduction axle with axle ratio geared for a maximum fully loaded road speed of 58 to 60 miles per hour. Rockwell or approved equal. Bidder shall specify rating of each axle.
- b. Spring capacity shall be consistent with axle rating. Volvo-T Ride™ suspension or approved alternative
- c. Axles shall have air operated inter-differential lockout with all wheel capability. A dash-mounted light shall be installed to indicate when the lockout is engaged.
- d. Eight (8) each 315/80R22.5 20-ply Load Range L, Michelin XZY-1 or XZY-2 tubeless radials. Wheels to be steel, disc type, "Budd" style commensurate with tire size. One (1) each spare rear wheel and tire to be included.

3.17 BRAKES:

- a. To be air, drum type, front and rear to be "S" cam self-adjusting type with Rockwell/Wabco ABS, no substitutes. All brakes and the component parts of the brake system shall meet the Department of Transportation rules and regulations, and also the Laws of California State Vehicle Code. All brake components to be Rockwell or approved equal.
- b. The front brakes shall be the largest available from the cab and chassis manufacturer. The front axle may not have disc-type brakes. The drum-Type front brakes shall be 16.5 inches by 6 inches, minimum
- c. The rear brakes shall be 16.5 inches by 7 inches, minimum, with outboard centrifuge drums

- d. The vehicle shall be equipped with piggyback-mounted spring actuated dual diaphragm chamber system, with quick-release valves located on or near the rear axle for immediate application of the spring brake when applied from the cab. Shall have spring-type parking brake with #30 size chambers on all four rear wheels.
- e. The air compressor shall be a 13 C.F.M. output (minimum). The discharge line of the air compressor shall be braided; rigid tubing coming directly from the compressor shall not be accepted
- f. The vehicle shall be equipped with three air tanks. All tanks shall be equipped with pull-cord type drain valves accessible from the side of the vehicle. The air tanks shall be of sufficient capacity to accommodate an operation requiring 400 to 500 stops in seven (7) consecutive hours. Tanks shall be mounted between the frame rails.
- g. The system shall have a Rockwell/Wabco System Saver 1200, Air Dryer installed. No substitutes.

3.18 STEERING:

- a. The vehicle shall be equipped with right hand power steering designated to ensure that front wheels will return to straight ahead position when steering wheel is released
- b. Outside turn radius shall not exceed 70 feet.
- c. The vehicle shall be equipped with power steering cooler, Hayden K1240, or equal and it shall be adequate to maintain a normal operating temperature in 120 degrees Fahrenheit weather. The cooler shall be capable of dissipating a minimum of 13,000 BTU's per hour. The cooler shall utilize ½ inch lines and fittings, and shall be rated a three (3) to twelve (12) gallon/minute flow. The bidder shall specify the make/model and/or part number.

3.19 DRIVE SHAFT:

- a. The original drive shafts shall be lengthened or shortened, as required by the wheelbase. The reworked drive shafts shall be balanced and installed and shall not exceed the recommended angles. All new or reworked drive shafts shall meet or exceed the quality of materials and construction of the original drive shafts. The drive shafts shall be balanced prior to final installation.
- b. The drive shafts shall be heavy-duty. Maximum length of any shaft is not to exceed (6) feet
- c. Universal joints shall be 1700 series or larger

3.20 STANDARD CAB:

- a. New current production, forward tilt cab.
- b. Any cab modification shall not interfere with the operation of the original steering and braking controls provided by the chassis manufacturer.

- c. The cab and/or platform shall meet all applicable Federal and State standards, rules, and regulations.
- d. Cab construction shall be welded reinforced 18-gauge galvanized steel. The floor pan shall be welded reinforced 14-gauge steel. Bidder please explain any variance.
- e. The cab platform shall be reinforced, structurally supported and to the frame rails.
- f. The windshield and windows shall be located to achieve maximum visibility to the front, sides, and rear. The view to the rear shall provide clear unobstructed view. Side windows shall be tinted to provide for UV protection.
- g. The driver's seat will be low profile air seat, adjustable fore and aft inside the cab.
- h. Safety seat belts installed in the cab, with outside belts to be equipped with automatic retractors for both the operator and passenger.
- i. One air and one electric horn.
- j. Grab handles outside cab on both sides.
- k. Vehicle to be equipped with normal recessed instruments and control devices, including audible low air alarm, engine tachometer, hour meter, speedometer, oil pressure, dual air pressure, engine water temperature, fuel gauge, voltmeter, engine oil temperature, engine shutdown system alarm and transmission temperature gauge with an over temperature indicator light and test button. (Reference Item 3.5)
- l. Dome light.
- m. Dual padded sun visors.
- n. Fresh air heater, defrosters and manufacturer installed air conditioner with variable speed switch to be of type and size recommended by manufacturer of vehicle, R134 system.
- o. 15.15 Windshield wipers shall be air or electrically operated with variable speed control and park position.
- p. Outside mirrors to be 6-5/8 inch by 13-1/2 inch flat glass. Mirrors shall be electrically controlled and heated with cab mounted controls. Motor-Mirrors or approved equal. Vendor shall specify make and model.
- q. Hydraulic cab tilting mechanism. The vehicle shall also be equipped with a minimum of two locking cab latches.
- r. Factory installed AM/FM radio.
- s. Unit will be equipped with a Silverstate one camera system with switching capability. One camera, Silverstate shall be Marker Light Reflector (SS-

MRFC2005C) mounted on the tailgate for rear vision. Whenever the truck is put into reverse gear the switching device shall operate the rear vision camera allowing the operator clear vision of the area behind the truck. A Silverstate SS-020660 7 LCD Color Compact High Resolution monitor shall be mounted in the cab of the truck allowing the operator good vision. All camera cables shall be encased in steel conduit at the tailgate and all outside exposed areas.

- t. Cab driver's door shall have an armrest and a pocket for document storage. City representative shall provide design, material, and location of armrest.
- u. Cab passenger door shall have an auxiliary window mounted low for curb viewing.

3.21 Questionnaire for truck and chassis. **FILL IN ALL APPLICABLE ITEMS AND SUBMIT WITH BID/OFFER.**

3.22 ACCESSORIES

- a. The vehicle shall be equipped with mud flaps at the front wheels sufficient to protect the cab and refuse body from road dirt from the front tires. Dual rear wheel mud flaps shall be required.
- b. The vehicle shall be equipped with an external audible warning signal conforming to CAL OSHA standards indicating when the vehicle is in reverse. The alarm must be automatic and sound when transmission is shifted into reverse. The minimum audible level must be no less than 107 decibels. (Reference Item 1.13)

4.0 TECHNICAL REQUIREMENTS – BODY:

4.1 BODY CAPACITY AND CONSTRUCTION:

These specifications cover a rear loading, hydraulically actuated packer body of the compaction type. The body will be constructed and installed on a three-axle truck chassis as specified. The body manufacturer shall furnish to the cab and chassis manufacturer the required wheel base dimensions for the body complying with these specifications. No section(s) of the body shall have exposed cut-outs or holes. The refuse body manufacturer must be ISO 9001:2000 certified and a copy of the manufacturers ISO certificate must accompany this bid. **(No Exceptions)** The equipment furnished shall conform to ANSI Safety Standard Z245.1-1999.

- 4.2 The body shall have a capacity of not less than twenty-seven (27) cubic yards excluding the receiving hopper or compactor device
- 4.3 The hopper shall have a minimum capacity of three and ninety-four hundredths (3.94) cubic yards.
- 4.4 The structural integrity of the body shall allow high density loading of up to 1000 pounds per cubic yard of normal refuse.

4.5 BODY DIMENSIONS

- a. Maximum width, outside 96"
- b. Maximum overall length of the body and tailgate combined shall not exceed the following: Capacity – 27 Yards; Length – 282"
- b. Body width, inside 89"
- c. Body height, inside 79"
- d. Body height, outside (above chassis) 96"

4.6 BODY CONSTRUCTION

- a. The body interior shall have a smooth floor without a trough. The sides and roof shall also be smooth.
- b. In order to prevent damage from corrosion and fire, no hydraulic cylinders, valve or other hydraulic components shall come in contact with refuse packed into the body.
- c. Body sides & roof shall be of curved stress skin construction interfacing with the corner mainframe bolsters. Rear bolsters shall be 5" X 20" formed channel at the major upper & lower connecting points of the mainframe. Front bolsters shall be a 5" X 8" formed channel at the major upper & lower connecting points. All sidewall and roof members shall be continuous welded.
- d.
- e. Body roof shall be minimum 8 gauge, 80,000 PSI minimum yield hi-tensile steel sheet fully welded to a full length 11 gauge 50,000 PSI yield roof crown rail to contain and dissipate forces equally through the body structure.
- f. Body sides shall be minimum 8 gauge, 80,000 PSI minimum yield high tensile steel sheet, fully welded to roof crown rail and to a 4.7" X 18" floor skirt rail.
- g. Rear mainframe body side bolsters shall be a minimum 3" X 20" and contoured shaped to sidewall with, minimum 7 gauge 80,000 PSI minimum yield. Reinforcement bolsters shall be full welded to the curved body side sheets.
- h. Body Floor shall be flat full width and must not have inboard guide rails or a trough. Floor shall be a minimum 7-gauge 80,000-PSI minimum yield steel sheet.
- i. Floor longitudinals (long members) shall be a formed trapezoidal shape 9.6" X 11" with a 3.3" base sill of 7 gauge 80,000 PSI minimum yield formed steel channels and shall be continuous welded to the floor sheet.
- j. Floor cross members shall be 3" X 6" X 7 gauge 80,000 PSI minimum yield steel channels. Cross members shall be interlaced through the long members on approximately 18" centers to fully support the floor. Cross members shall be full width, single piece.

4.7 TAILGATE DIMENSIONS

- a. Maximum overall width at the hopper opening shall be 84-1/2".
- b. Inside tailgate loading width shall be minimum of 80".
- c. Hopper opening height shall be minimum of 55".
- d. Loading sill height below chassis rail shall be 3.8" exclusive of any container handling mechanisms.
- e. Overall height above the chassis frame with the tailgate raised shall not exceed 207-1/2".

4.8 TAILGATE CONSTRUCTION

- a. Tailgate sides shall be single piece 3/16" 150,000 PSI minimum yield 321 BHN abrasion resistant plate steel.
- b. Tailgate side reinforcement shall consist of 6" X 1-7/8" 11 gauge 50,000 PSI formed steel channels fully welded to the perimeter edge of the tailgate side sheets. An interlaced network of 6" x 1-7/8" 7 gauge 50,000 PSI and 6-5/8" X 1-7/8" 7 gauge 80,000 PSI minimum yield formed steel channels shall also be fully welded to the tailgate side for support.
- c. Hopper floor shall be minimum 3/16" 150,000 PSI minimum yield 321 BHN abrasion resistant steel plate.
- d. Hopper floor lateral reinforcement shall consist of a 3/16" 80,000 PSI minimum yield formed "Z" channel cross member. Forward hopper reinforcements shall be provided by a lateral network of 3/16" 80,000 PSI and 3/8" 50,000 PSI minimum yield formed steel channel cross members.
- e. Hopper front compaction face shall be minimum 5/16" 150,000 PSI minimum yield 321 BHN abrasion resistant steel plate.
- f. Tailgate shall be equipped with heavy duty 1" diameter turnbuckles, one on each side of body, to secure the tailgate in the closed position against the body to prevent leakage.
- g. Two (2) grab handles (3/4" hot rolled steel bar) shall be located on side of the tailgate for operator safety and comfort. One handle is to be mounted horizontally no less than 49" above the riding step. The other shall be mounted in the vertical plane, with the bottom edge no less than 44" above the steps.
- h. The rear steps shall be bolt-on design fabricated from 12 gauge, 3 diamond Grip Strut, slip resistant, self-cleaning material. Located on each side of the tailgate, they shall provide for a minimum of 396 square inches of footing area for a single rider. The steps must conform to ANSI standards.
- i. The tailgate shall be raised with two (2) single acting 4" bore X 26" stroke hydraulic cylinders. The cylinders shall incorporate an integral orifice which will limit the descent speed of the tailgate in the event of hydraulic failure.
- j. The tailgate shall be equipped with a one piece, removable rubber gasket. The gasket,

which shall have a durometer rating of 35-45 and tensile strength of 1500-1800 PSI shall extend across the entire bottom width of the tailgate and provide for watertight seal vertically up the side for no less than 21".

- k. The hopper sill shall be formed from 3/16", 80,000-PSI high tensile steel.

4.9 PACKING MECHANISM

- a. Packing cycle control shall be mechanical, lever operated on the right hand side of the tailgate. A two lever design the operator shall have the capability to start, stop, and reverse the direction of any function at any time throughout the packing cycle.
- b. Packing mechanism control valve shall be centrally located within confines of the hopper, under upper light cross members.
- c. The packing cycle time shall be no greater than 25 - 27 seconds. Operator reload time shall be no greater than 9 - 11 seconds.
- d. Packing mechanism shall consist of two primary structures, the upper packing panel and the packing blade.

4.10 UPPER PACKING PANEL

- a. The upper packing panel shall be mounted to the tailgate weldment with two (2) sets of upper and lower link arms. Each upper link arm shall be secured to the panel and tailgate with two (2) 2" diameter induction hardened C-1045 cold drawn steel pins. The lower link arms shall be connected to the tailgate with 2" diameter induction hardened C-1045 pins and to the panel with 2 5/16" heat treated, induction hardened 4340 cold rolled steel hinge pins.
- b. The upper packing panel shall be constructed from 3/16" 150,000 PSI Minimum yield, 321 BHN abrasion resistant steel plate in all areas of refuse contact. The packing blade hinge lugs shall be constructed from 3" thick 50,000-PSI minimum yield steel plate.
- c. Primary compaction by the upper panel shall be accomplished with two (2) double acting 5" bore X 36" stroke hydraulic cylinders. Located outside of the hopper confines, the cylinders shall produce a minimum force of 73,600 pounds.
- d. Forward hinged side doors on each side of the tailgate shall provide access to the outside cylinders. The doors shall be easily opened without hand tools. The side doors shall prevent operator contact with the packing mechanism components as well as protect the components from the outside elements.

4.11 PACKING BLADE

- a. The packing blade shall be mounted to and pivot on the upper panel hinge lugs with heat treated, induction hardened ASTM 4340 cold rolled 3" steel pins.
- b. The packing blade shall be constructed with 3/16" 150,000 PSI minimum yield, 321 BHN, abrasion resistant steel plate and capable of resisting shearing and breaking forces of large objects during the compacting cycle.

- c. Pre-compaction by the packing blade shall be accomplished with two (2) double acting, 5-1/2" bore X 24" stroke cushioned hydraulic cylinders. Located inside the hopper confines, the packing blade cylinders shall produce a minimum force of 111,670 pounds (33.25 PSI).
- d. All packing mechanism links shall have replaceable hardened steel bushings for extended service life. Wear shoes or rollers shall not be acceptable in high compaction packing mechanisms.
- e. All cylinders and link pivot pins shall be kept in place with minimum Grade 5 retaining bolts, lock nuts and lock collars.
- f. Each hopper full of material shall be compressed between the packing blade, upper panel and ejector panel. The ejector panel shall be automatically advanced by an ejector unload valve. No operator attention shall be required to advance the ejector panel as the body fills.
- f. The packing mechanism shall be equipped with an automatic crowd Pressure sensing device which will enable the packing mechanism to find A path through the load which will neither stall the mechanism nor damage the structure thereby prolonging the hopper floor and mechanism life.

4.12 DISCHARGE OF LOAD

- a. The load shall be discharged by means of a positive ejection system. A double acting, telescopic hydraulic cylinder shall extend and retract the ejector panel the full length of the body. The ejector cylinder shall attach to the body and the ejector panel via cold-drawn, C1045, pins having a minimum diameter of 1-1/2" and positioned diagonally to minimize possible damage from objectional liquids.
- b. The ejector cylinder shall have the following dimensional characteristics:
Capacity: 27 Yard
Stages: 4
Bore: 6"
Stroke: 145.8"
- c. The ejector panel face sheet shall be constructed from 11 gauge hi-tensile steel. Four (4) hi-tensile formed steel channels shall span horizontally, with one (1) trapezoidal cross members at floor level. The vertical panel corner posts shall be 0.375 hi-tensile steel. A 7 gauge hi-tensile steel protective covering shall be provided to keep refuse from coming in contact with the ejector cylinder.
- d. The ejector panel shall extend and retract without the assistance of clamp bars or associated hardware.
- e. Smooth movement of the ejector panel in the body shall be achieved with two (2) cast alloy shoes on each side of the ejector panel. Shoe castings shall conform to specification 28C358-A0201 possessing a minimum contact surface of 18 square inches each shoe side and having a minimum hardness of 260 BHN. Each shoe shall pivot on a minimum 2" diameter, C1045, removable cold drawn stub pin held within the fully boxed 4" X 12" base frame of the ejector panel. Four (4) shoes shall be provided for

each ejector panel and shoes must be replaceable without removing the ejector from the body. Rollers shall not be used.

- f. Ejector guide bottom edge shall be located .375" above longitudinal floor corners. The guide channel shall have interior dimensions of 3.5" X 4.2". The top flange of the guide channel shall be reinforced with a 45 degree plate, which shall also serve as a self-cleaning device. The track shall also minimize pivotal movement of the ejector panel as refuse is packed against it.
- g. Plastic (non-metallic) ejector shoe material is not acceptable.
- h. The rod end of the ejector cylinder shall be pin mounted at the front of the body to the main lateral bolster of the body longitudinal members thus affording maximum resisting bending moment.

4.13 CONTROLS

- a. The ejector panel and tailgate raise controls shall be mounted outside the body on the front left hand side of the body. Direct connection of the control handles to the valve spool shall exist to minimize moving parts and allow for ease of service.
- b. An electrical device shall be supplied to automatically raise the engine speed to the proper RPM during the packing cycle.
- c. An additional throttle advance switch shall be located at the front left hand side of the body within hands reach of the ejector and tailgate raise controls.
- d. Power take off controls shall be conveniently mounted in the cab, preferably to right side of the driver.

4.14 HYDRAULIC SYSTEM

- a. A heavy duty pump motive drive shall be provided and shall be compatible with that of chassis transmission. The pump drive shall be activated by:
 - 1. Electrical Signal Hot Shift clutch PTO
 - 2. Air Signal Air Shift PTO
 - 3. Mechanical Cable shift PTO
 - 4. Front Engine Crank Driven Pump
- b. The pump motive drive must run quietly. Gearing shall be selected for minimum engine RPM compatible with recommended pump RPM for correct operating pressure and rates of flow for the refuse body.
- c. To minimize hydraulic cylinder weight, a high-pressure hydraulic system shall be employed. The operating pressure of the system shall be 2400-2500 PSI. Low-pressure systems shall not be acceptable.
- d. A heavy-duty gear pump shall be provided with a rated capacity of 28 GPM at 1200 RPM

- e. The hydraulic pump shall be designated to operate continuously with Peak loading at frequent, short intervals.
- f. The hydraulic system shall incorporate adjustable relief valves to protect All components from excessive pressure and overloads.
- g. All hydraulic tubes will be securely clamped to prevent vibration, abrasion, and excessive noise.
- h. All hydraulic tubes running the length of the body shall be routed over the roof on the street side bias of the body.
- i. All hydraulic hoses shall conform to S.A.E. standards for designed pressure. Bends shall not be less than recommended by S.A.E. standards. Flat spots in hoses will not be acceptable.
- j. All high-pressure hoses shall be sheathed with fabric protective covering.
- k. The hydraulic oil reservoir shall be frame mounted underneath the body and shall have a gross capacity of 50 gallons filled with hydraulic fluid.
- l. The tank shall be complete with a screened fill pipe and cap, filter breather, clean out cover, and shut off valve.
- m. The hydraulic system shall be protected by a five (5) micron return Line filter along with a 100 mesh (140 micron) reusable oil strainer In the suction line.
- n. The return line filter shall also include an in-cab filter by-pass monitor, which shall alert the driver or maintenance staff when the filter needs replacement.
- o. All multi-spool control valves shall be of a section design such That servicing would not require replacement of the entire valve assembly.

4.15 HYDRAULIC CYLINDERS

- a. All cylinders must have a working pressure rating of no less than 2500 PSI
- b. Inside packing cylinders must be of the internal cushion design so That hydraulic shock and audible noise is minimized. This shall be accomplished by a design which will decrease the speed of the cylinder for the last one-half (1/2") inch of cylinder stroke on both directions of travel.
- c. Rods of inside and outside packing cylinders must be induction hardened To a surface hardness of 55-65 Rockwell C scale.
- d. Rods of all cylinders shall be chrome plated.
- e. All packing cylinder end lugs shall be forged steel material.

4.16 ELECTRICAL

- a. All electrical wiring connectors to be automotive double-seal, with wiring in spilt convoluted loom.
- b. All wiring connections to be soldered with rubber-molded covering or crimp type connectors with shrink-wrap. Unprotected wiring in any application is unacceptable.
- c. All electrical limit switches shall be epoxy impregnated to minimize effects of excess moisture.

4.17 LIGHTING

- a. Clearance, back-up, and directional lights shall be lexan lens. All lights will be recessed into the tailgate with the lens flush with the outer skin. Clearance, backup and directional lights shall be LED type, shock mounted in a protective housing. The whole unit will be "pop-out" and replaceable. All vehicles will meet FMVSS #108 and State lighting and reflector requirements.
 - b. The vehicle will be equipped with a strobe type-warning beacon mounted on the tailgate. On/off switches will be located inside the cab.
 - c. All lights shall conform to current State and Federal codes. These lights shall be light emitting diode (LED) type. Bidder shall specify make, model of lights. If specified type lights are not available, please explain why they are not available and what type of lights will be included.
 - d. All wiring which passes through partitions or bulkheads shall have rubber grommets to prevent chafing
 - e. There shall be no splices between the junction box(s) and components
 - f. All electrical circuits shall have circuit breaker protection devices, fusible links are not acceptable
 - g. All wiring must be color-coded. All wires, wire harnesses, terminals or connectors subject to dirt and moisture shall be adequately protected. Whenever possible, individual wires shall be grouped into harnesses and properly supported on rigid members to prevent abrasion and flexural failure.
 - h. Wire looms shall terminate at components or junction boxes, which shall be plainly labeled to show function and indicate color code
 - i. All lights shall be provided in accordance with FMVSS #108, ANSI .1-1999 plus mid body turn signals on each side of the body and a center brake light on the rear.
- 4.18 If frame modifications to the cab and chassis are required for packer body installation, the modified frame must meet the original frame specifications of the manufacturer.
- 4.19 Completed vehicle shall maintain a minimum ground clearance of at least 13 inches, excluding front and rear axles.
- 4.20 All exposed air, hydraulic, electrical and cooling components with an 18 inch or less ground

clearance dimension shall be adequately protected from damage associated with landfill operations.

- 4.21 Shall be an all welded construction of framed steel sections. Interior shall be smooth and free of all obstructions to allow easy removal of refuse material.
- 4.22 Body sides, roof, floor, and hopper floor shall be structurally reinforced as to withstand continuous operation at maximum imposed loads without harmful deformation or excessive wear.
- 4.23 Fenders over the rear axles to protect the body from debris are required. Fenders shall be attached to the body sub-frame.
- 4.24 Welding fillets shall have good penetration, good fusion, good appearance, and shall show no cracks or undercutting. All welds shall conform to NWS
- 4.25 The exterior surfaces of the roof, sidewalls and rear doors shall have continuous welds. The body shall be water tight up to no less than twelve inches above the floor. Body shall have sufficient steps and handrails for operator to safely remove stuck debris or containers from hopper interior.
- 4.26 Units must conform to the best practice known to the body trade in design, quality of material and workmanship.
- 4.27 The body interior shall have a smooth flat floor without a trough. The sides and roof shall be smooth radius cornered construction. The body interior must have continuous welds in addition to the outer body welds (**No Exceptions**). All materials shall be steel unless otherwise specified.
- 4.28 PAINT
- a. Primer shall be compatible with finish coating. Extra care will be taken at welded areas to insure proper bonding will occur. The seal coat shall be painted using Sikkens Autocoat LV epoxy primer in an amount necessary to achieve a dry thickness of one (1) mil.
 - b. Finish coat to be a high luster and shall be applied using Sikkens Autocryl/acrylic urethane. Body color to match the cab manufacturer's standard white. The under part of the body from outside the frame rail to approximately 9" up the outside radius shall receive additional treatment to protect against rock and gravel chips shall be. Frame shall be manufacturer's standard black and wheels shall be manufacturer's standard white.
 - c. All M.S.D.S. sheets shall be provided upon delivery.
- 4.29 CONTAINER HANDLING: Lip and Latch kit with container Roll Bar mechanism. Equal to.
- a. The Roll Bar mechanism and Lip & Latch Kit shall be designed and manufactured as defined by ANSI Z245.1, Mobile Wastes and Recyclables Materials Collection, Transportation, and Compaction Equipment – Safety requirements. ANSI Z245.30, Waste Containers – Safety Requirements, and ANSI Z245.60, Waste Containers – Compatibility Dimensions, for type "T" containers. Equal to.

- b. Requirements for Type "T" containers with 3 yard capacities or less:
1. Total length of the trunnion bar including washers (if provided) shall be 77-1/2" (+ 1/2", -0"). Note: If washers are provided the diameter should be 2-1/4".
 2. Width of the container and all supporting gussets attached to the trunnion bar shall be maximum 72". Handles located on container sides are also included.
 3. Width of container body including structural supporting side members (side rails) shall be maximum 66". Note: This dimension excludes handles and gusset supports.
 4. The diameter of the trunnion bar at latch-up points shall be 1-1/4" (+1/2", -0")
 5. Distance from the centerline of the trunnion bar to the ground shall be 47" ± 2". The top of the trunnion bar should coincide with top of the container on the side where the trunnion bar is located.
 6. Horizontal distances from the lower front edge of the container body to a perpendicular originating at the upper front edge of the container shall be 2" (excluding the trunnion bar). This distance to be measured at ground level.
 7. The vertical distance between the uppermost part of the handle on the side of the container and the centerline of the trunnion bar shall be 3".
 8. The distance between the centerline of the trunnion bar and the front of the lift point shall be minimum 10" and maximum 17". Note: Lift points should not extend beyond 72" out from the side of the container.
 9. The maximum diameter (thickness) of an attachment through which a cable may be hooked to the container shall be maximum 1-1/4".
 10. The minimum distance from inside of side handle to the outside of the container shall be 2".

5.0 OTHER REQUIRMENTS

- 5.1 All equipment catalogued as standard shall be furnished whether or not it is listed in the previous specifications
- 5.2 The component parts of the unit shall be of proper size and design to safely withstand maximum stresses imposed by a capacity load.
- 5.3 The torque capacity of each driven part shall be equal to or exceed the torque capacity of its driving member.

5.4 A PLC (Programmable Logic Controller) electronic controls center shall be provided to monitor system

functions. The PLC shall be installed inside the truck cab and shall possess self-diagnosing error codes which identify the trouble source. Both audio and L.E.D. outputs must be made available to aid in locating trouble source.

- 5.5 BOOKS, MANUALS AND TECHNICAL INFORMATION: Complete and accurate copies (2 sets) of the following items shall be furnished at the time of delivery of the completed unit to the City of Lompoc:
- a. Operators instruction manual;
 - b. Shop maintenance manuals for chassis and packer;
 - c. Lubrication instruction;
 - d. Illustrated detailed parts books for chassis and packer;
 - e. Air and hydraulic piping diagrams;
 - f. Original dealers report of sale, to include dealers license number;
 - g. Complete electrical schematics for cab and chassis, and hoist system.
 - h. Diagnostic software and hardware compatible to diagnose engine and transmission performance will be provided at the time of vehicle delivery (No Exceptions).
- 5.6 OPERATION AND SERVICE INSTRUCTIONS: The vendor, at his expense, shall provide a qualified factory authorized representative to conduct one (1) 2-hour period of instruction to the Fleet Maintenance personnel in the service, maintenance, and operation of the furnished equipment. Instructions shall be provided at the City Corporation Yard within five (5) working days of delivery of the equipment and all books, manuals, and technical information. Additionally, the vendor, at his expense, shall provide one (1) 1-hour training session on the operation of the equipment to all Sanitation equipment operators at the Sanitation Yard and will provide training to fully train four (4) operators on the use of the equipment to include actual operation in the field.
- 5.7 SAFETY: The vehicle shall meet or exceed all applicable State and Federal OSHA requirements
- 5.8 WARRANTY: CAB and CHASSIS: All components shall be guaranteed against structural defects and defects in material and workmanship for a period of one year from the date of acceptance. Parts, labor and travel cost shall be included.
- 5.9 FLUID LEVEL – METAL PLATE: Provide metal stamped plate attached by rivets in the engine compartment that shows operating capacity levels on all oils, lubricates, and fluids used in the normal operation of the vehicle.
- 5.10 BIDDER TO SPECIFY CAB & CHASSIS WARRANTY:

Cab & Chassis:

Std Auto Car Warranty except for:

Engine: 5 yr.

Transmission: 4 yr Edge

Drive Axles: Std Arvin Meritor

5.11 BIDDER TO SPECIFY REAR LOADER, COMPACTOR and BODY WARRANTY. Vendor shall be guarantee against structural defects and defects in material and workmanship for a period of one (1) year from the date of acceptance. Parts, labor and travel costs shall be included.

Rear Loader Warranty: 1 year

Rear Loader Make & Type: McNeilus 2816 Rear Loader

Compactor Warranty: 1 year

Compactor Make & Type: McNeilus 2816 Rear Loader

Body Warranty: 1 year

Body Make & Type: McNeilus 2816 Rear Loader

5.12 During the warranty period all parts needed to replace broken, or failed parts other than those caused by normal wear, accidents or acts of others, for the packer body will be furnished by the vendor, including freight at no cost. The city will be reimbursed at a rate no less than \$68.54 per hour for any warranty work performed by the city forces.

5.13 The City of Lompoc is offering for trade-in two (2) used roll-off refuse trucks. Vendor will take possession of the used roll-off trucks when two (2) used City owned side loaders refuse trucks have been converted to roll-offs trucks and have been delivered to the City of Lompoc. No Exceptions

1. **City Vehicle # 5431**, 1991, GMC/Volvo WX64 Cab & Chassis with roll-off assembly and components.

VIN: [REDACTED]

Engine: Cummins LTA10

Transmission: Allison HT740

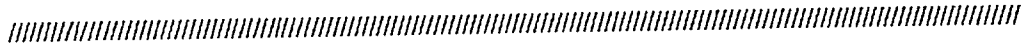
2. **City Vehicle # 5480**, 1998, Peterbilt 320 Cab & Chassis with roll-off assembly and components.

VIN: [REDACTED]

Engine: CAT 3126

Transmission: Allison MD3066P

BIDDER WILL SPECIFY TRADE-IN OFFER IN BID/OFFER.



LAST ITEM

EXCEPTIONS TO SPECIFICATIONS (If none, please indicate)

Bidder Company Name

Page No.	Paragraph Number	Detailed Description of Exception (Include product specifications where applicable)
10	4.3	3.5 cubic yard hopper
11	4.5b	Length 303" - 28yd Capacity
11	4.5c	Body Height inside 88"
11	4.5d	Body Height outside 99"
11	4.6c	NO front Bolsters (unnecessary design) ^{with MTM}
11	4.6e	Roof 10 ga AR 200
11	4.6f	Body Side Front 10 ga AR 200 / Rear 1/8" AR 500
11	4.6h	Has inboard guide rails (MTM Successful Design)
11	4.6I	Floor Long members C8 x 11.5" ^{Channels} structural
11	4.6J	Floor Cross members Braces 3/16" ^{NOT one piece} GRD 50 Fabricated
12	4.8a	Top half 11 ga GRD 50
12	4.8d	Using McNeilus proven design
12	4.8g	Using McNeilus ergonomic design
12	4.8h	342 SI steps - meets ANSI
12	4.8i	2 7/8" x 38" Cyl.
13	4.9c	Cycle time 20 seconds Exceeds
13	4.10	McNeilus Proven design Exceeds
13	4.11	McNeilus Proven design Exceeds

21 5.13
Item 1+2

Attach additional sheet if needed

Trade in prices offer expires on 4/1/08. Can city make sure rolloffs are available by then?

EXCEPTIONS TO SPECIFICATIONS (If none, please indicate)

Bidder Company Name

Page No.	Paragraph Number	Detailed Description of Exception (Include product specifications where applicable)
14	4.12	McNeilus Proven design Exceeds
14	4.12g	uHMW plastic Blocks - Proven design
16	4.15	McNeilus uses HD Rosenboom Cylinders
17	4.17a	No Lexan - McNeilus uses TruckLite LED
17	4.17f	fuses only for Rear Loader Body
18	4.28b	Use SIKKens Auto coat LV Polyurethane
19	5.4	NO PLC → McNeilus STD easy fuse control Box
20	5.8	No Travel costs for body chassis
4	2.14	Not Grote 71422 - Equal Signal Stat 798
3	2.10	Inspection Trip to body manufacturer only
4	3.4	RBM 2,086,000
6	3.12e	Leece Neville 200 Amp Alternator
7	3.14d	Chicago Rawhide seals
7	3.15	Michelin XZY-3
7	3.16b	Hendrickson HMX460 rear suspension
7	3.16d	Michelin XZY-3
8	3.17g	Rockwell/Wabco System Saver 1800 exceeds
8	3.18c	steering cooler not available from

Attach additional sheet if needed
 chassis OEM. Never experienced an
 issue where one was needed.

BID FORM

The undersigned agrees to sell, F.O. B. Destination, to the City of Lompoc the goods/services specified in accordance this bid. I/We have stated hereon the price(s) at which we will accept as full payment the amount shown below. F.O.B. destination indicates that the seller is responsible for the shipment until it reaches its destination, even if freight is allowed and paid by the buyer.

All bidders MUST calculate California Sales/Use Tax at the current rate in effect in Santa Barbara County as noted below. The City is obligated to pay all applicable taxes imposed in the county of receipt either to the supplier or directly to the state in the form of a Sales Tax (on the transfer of tangible personal property) or a Use Tax (on the storage, use or other consumption in California) of same.

Qty	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
	<u>Rear Loader Refuse Packers</u> Cab & Chassis Make, Model & Type <u>Autocar WX64 LCF</u> Engine <u>Cummins ISL 345hp</u> Transmission <u>Allison 46C 4500 RDS</u> Rear Loader Make & Type <u>McNeilus 2816 Rear Loader</u>		
2	Compactor Make & Type <u>same</u>	<u>\$176,941</u>	<u>\$353,882.⁰⁰</u>
1	Trade in <u>City Vehicle # 5431</u> , 1991, GMC/Volvo WX64 Cab & Chassis with roll-off assembly and components.: 4V2DCFMD9MU509122 Engine: Cummins LTA10 Transmission: Allison HT740		<u>\$6,000.⁰⁰</u>
1	Trade in <u>City Vehicle # 5480</u> , 1998, Peterbilt 320 Cab & Chassis with roll-off assembly and components. VIN: 1NPZLDOX7XD711399 Engine: CAT 3126 Transmission: Allison MD3066P		<u>\$21,000.⁰⁰</u>
			<u>\$326,882.⁰⁰</u>
		Shipping	<u>\$8190.⁰⁰</u>
		Sub-total	<u>\$335,072.⁰⁰</u>
		Sales Tax @ 7.75%	<u>\$25,333.³⁶</u>
		Total of all Charges	<u>\$360,405.³⁶</u>

The trade in vehicles may be seen by appointment only with Anthony Garcia (805) 875-8029

Delivery will be completed after receipt of order in 180 days.

The City has a local vendor preference. Under the Lompoc City code, in determining a lowest price, the ultimate receipt of local sales tax (1%) by the City shall be considered. However, all vendors who work within city limits of the City of Lompoc are required to have a Business Tax License. If you do not have a Business Tax License please contact the Lompoc City Clerk=s department at (805) 875-8242.

Do you conduct business in an office with a physical location within the City of Lompoc and therefore claim local vendor preference? NO yes or no.

City of Lompoc Business Tax License Number: _____

Business Name, within the City of Lompoc: _____

Business Address within the City of Lompoc: _____

Non-California Bidders:

Are you registered with the State of California as authorized to collect California State Sales Tax? YES NO.

California Sellers Permit Registration No. SSOHA30-6633463 (if applicable)

Do you agree X /disagree _____ to extend this agreement to other government agencies.

The following discounts will be considered in award of bid:

Discount for payment of invoice within 20 days of receipt of invoice 0 %.

We hereby certify that:

-This bid was not made in the interest of or on behalf of any undisclosed person, partnership, association or corporation.

-This bid is genuine and not collusion or sham; and that we did not, directly or indirectly, induce or solicit anyone else to submit a false or sham bid.

-We have not, directly or indirectly, by agreement, communication or conference with anyone attempted to induce action prejudicial to the interest of the City of Lompoc, or any other bidder or anyone else interested in the proposed contract; and further,

-Did not, in any manner, directly or indirectly, seek by agreements, communications, or conference with anyone to raise or fix any overhead, profit, or cost element of this bid price, or that of anyone else.

ORIGINAL SIGNATURES (COPIES WILL NOT BE ACCEPTED).

UNSIGNED BIDS WILL NOT BE CONSIDERED.

Submission of a signed bid will be interpreted to mean that bidder has read the entire document and agrees to all of the terms and conditions set forth in all the sheets which make up this invitation.

(Please type or print)

McNeilus Truck + MFG.
COMPANY NAME

401 North Pepper
ADDRESS

Colton, CA. 92324
CITY, STATE AND ZIP CODE

909-370-2100
PHONE NUMBER

909-370-0739
FAX NUMBER

Barry Torgerson
SIGNATURE OF AUTHORIZED REPRESENTATIVE

Barry Torgerson Sales Rep.
NAME AND TITLE (PLEASE PRINT)

BTorgerson@McNeilusco.com
E - MAIL ADDRESS

www.mcneiluscompanies.com
WEB PAGE

8/21/07
DATE

GENERAL TERMS AND CONDITIONS

ISSUANCE OF BID: This bid request creates no obligation on the part of the City and the City reserves the unconditional right, at its option, to either reject all bids or waive any irregularities or informalities therein.

BID SUBMISSION: Bids must be submitted on bid forms provided herein, completed and signed, in a sealed envelope showing on the outside of the envelope the name of bidder, bid title, and date and time of opening. Prices shall be printed in ink or typewritten. No erasures are permitted.

Mistakes may be crossed out and corrections printed adjacent and initialed in ink by person signing the bid.

All bidders must submit one (1) original and one (1) copy of their bid for consideration by the Purchasing Office and the ordering department.

BRAND NAMES: Brand names are used to establish a level of quality only. Bids will be considered for any brand which meets or exceeds the quality of the specifications listed for any item.

Bids that deviate from the specifications must be clearly defined. The City will have the sole right to determine whether an alternate is acceptable.

CANCELLATION: Any agreement resulting from an award may be canceled by either party at any time upon thirty (30) days written notice. The City may cancel any agreement WITH CAUSE within ten (10) days written notice to supplier.

CONTRACT LIMITATIONS: Any resulting contract shall be limited to all terms and conditions herein, including any general and special conditions and instructions, purchase order or other documents issued by the City.

EQUAL EMPLOYMENT OPPORTUNITY: It is the policy of the City to promote the full realization of equal employment opportunity.

These items are self-explanatory and are applied equally and irrevocably to all vendors and their bids. Therefore, bidders must be conscientious in fulfilling all requirements in order to have their bids considered for award.

NOTE that telephone, telefacsimile, or telegraph bids will not be accepted for publicly advertised bid requirements which specify sealed bid submissions.

ENTIRE AGREEMENT Any Agreement resulting from this Bid will consist of the following documents, in order of precedence, and shall be the entire agreement between parties:

- A. Purchase Order
- B. CITY' s Invitation to Bid
- C. Attachments
- D. CONTRACTOR' s Bid

F.O.B. POINT AND SHIPPING CHARGES: All prices shall be quoted F.O.B. destination Lompoc, California. Any and all shipping, handling and freight charges shall be shown separately unless otherwise noted on bid form.

LAW COMPLIANCE: All bids shall comply with current federal, state and local laws relative thereto, including applicable Federal and State Occupation Safety and Health laws and that Seller will indemnify and hold the Buyer harmless for any failure to so conform

LAWS GOVERNING CONTRACT: The contract shall be in accordance with the laws of the State of California and the County of Santa Barbara is the only appropriate forum for any litigation.

In the event a suit or action is instituted arising out of any contract, the prevailing party shall be entitled to receive, in addition to its cost, such sum as the court may adjudge reasonable as to attorney's fees and costs.

MORE THAN ONE BID: More than one bid is allowed. Each bid must be in a separate sealed envelope with proper identification showing on outside of envelope.

BID VALIDITY / WITHDRAWAL: Prices shall remain valid for ninety (90) days from date of opening and be inclusive. Bids submitted may be withdrawn by written request received BEFORE the hour set for opening. No bidder may withdraw their bid after the time set for opening.

QUESTIONS: Questions may be submitted, by written request, for an interpretation or correction thereof. Fax inquires to:

Ray Ambler, Purchasing & Materials Manager
(805) 735-7628

LOWEST APPARENT BIDDER SUBMITTAL REQUIREMENTS: The lowest apparent bidder may be required to submit the following:

- a) Proof of authorized distributorship
- b) A sample or demonstration of any product/unit offered. Samples and/or demonstration must be free of expense to the City.
- c) City Business Tax number
- d) PUC permit
- e) Insurance requirements
- f) Proof of driver training on hazardous substances
- g) References

MATERIAL SAFETY DATA SHEETS: When applicable, bidders shall conform to California Labor Code, Section 6360 and Title 8 CAC, Section 339 and 5194 and submit MSDS on hazardous substances with bid.

NEW/UNUSED AND LATEST MODEL: Bidders shall provide pricing on new and unused items, material and/or units specified unless otherwise stated in specifications.

QUANTITY ADJUSTMENT: When applicable, it is mutually accepted that the quantities defined in this document reflect the approximate City requirements and may be adjusted. City may require and order or reorder more than the quantity listed here.

REASONS FOR AUTOMATIC DISQUALIFICATION OF BIDS

Failure of bidder to fulfill all basic requirements will result in automatic bid rejection. A Letter of Bid Disqualification is sent to bidder failing to meet any of the requirements. The checklist of reasons for rejection as follows:

- Failure to sign bid document (in ink).
- Failure to ensure bid was received by City of Lompoc Purchasing Offices on or before bid opening date and time and the address specified in the bid.
- Failure to submit bid in ink (pencil is unacceptable).
- Failure to provide bid security (if required and in the form and amount specified).
- Failure to attend mandatory bidders' conference or mandatory site inspection.
- Failure to initial price alterations (in ink) for one or more items.
- Failure to provide information or other supplemental materials as specified in the RFP or bid.
- Failure to bid on all items when specifically required.

SELL OR ASSIGN: Contractor shall not have the right to sell, assign or transfer any obligations resulting from the award without the specific written consent of the

Purchasing and Materials Manager.

TAXES (FEDERAL EXCISE/SALES OR USE/LOCAL PREFERENCE): The City is exempt from Federal Excise Tax. All taxes, if applicable, shall be shown on bid form page. ALL TAXES; Sales, Use and Local Preference will be a consideration in bid evaluation.

WARRANTIES: Bidder will fully warrant all materials and equipment for a period of not less than one (1) year from date of final acceptance by the City unless otherwise noted. All warranties, standard and extended, shall be shown on any units offered, and all costs related to the servicing of said warranties shall be clearly stated on bid form.

MINORITY BUSINESS ENTERPRISES: It is the policy of the City that minority business enterprises shall have the maximum opportunity to participate in the City's bidding requirements.

AWARD: Contracts shall be awarded to the bidder whose offer is determined to be the most advantageous to the City from the standpoint of suitability to purpose, quality, service, previous experience, price, ability to deliver, or for any other reason deemed by the Purchasing Manager to be in the best interests of the City and, as such, will not be determined by price alone and may not be the lowest bid especially where services are of utmost importance.

When there is more than one (1) item, the City reserves the right to award separately or as a whole. Bidders must state "all or none" on bid form. If optional items or trade-ins are requested, the City may accept or decline such items.

BID PROTEST: Interested parties wishing to protest City solicitation documents may obtain a copy of Lompoc Code, Chapter 26, Section 2642, Section 26 by calling the Purchasing Office at 805-875-8000 or on the City's web site at:
<http://www.cityoflompoc.com/purchasing/protest.html>

COOPERATIVE PURCHASING: The successful bidder may agree to extend all terms and conditions to other tax-supporting agencies upon their request. These agencies will issue their own purchase order and be billed directly by supplier. Bidders agreement or disagreement must be stated on bid form and will not effect bid evaluation.

E.