



CHANGE ORDER(s)

CONTRACT CHANGE ORDER AUTHORIZATION NO. 14

DATED 7/18/2001

FILED WITH CONTRACT # 23336

(MONTENAY PACIFIC POWER CORPORATION)

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**OFFICE OF THE CITY MANAGER
CITY OF LONG BEACH
LONG BEACH, CA 90802**

Change Order No. 14 Date: July 18, 2001
Contract No. 23336 Contractor: Montenay Pacific
Project: SERRF Power Corporation
Program No.: PWERO2
This Change Order: Prior Change Orders: See Attachment 1.
Capital Improvement - \$425,150.00

BACKGROUND

This Contract Change Order is issued in accordance with provisions set forth in the subject Contract with reference to the following facts:

1. Section 4.2 of the Contract to operate provides for reimbursement for all costs of any capital improvements approved by change order.
2. The City has requested that the Contractor select, install, maintain and evaluate solar photovoltaic (PV) panels on three building roofs at SERRF. Solar panels would be installed on top of the Warehouse, the City Administration building and the Montenay Administration building.
3. Included in this budget is the cost to select the optimal technology, either Amorphous or Crystalline PV solar arrays. In addition, flat panel and tilted single axis panels will be evaluated. Also, building orientation, roof structure, obstacles and possible shading from adjacent structures or trees will be considered to ensure the selection and maximum utilization of available roof space. The Contractor would utilize an expert on PV solar arrays to perform the evaluation and reporting on the project.
4. The contractor solicited budgetary proposals for this work.
5. The Contractor, with support from the PV expert, will select architectural and engineering

firms as needed for the engineering services. A construction company will be selected after the design and drawings are completed, and approved by the Building department.

6. The Contractor will perform the selection and installation work during the period from August 15, 2001 through December 15, 2001. A final report documenting the selection, construction and installation of the PV system, including cost details, will be delivered to the City on June 7, 2002. The evaluation study will continue for one year after the systems are installed and accepted. A report covering the first year of operation of the system will be delivered to the City on February 12, 2003.

CHANGE IN SCOPE

The Contractor shall provide all labor, materials, and equipment to select, install, maintain and evaluate solar photovoltaic (PV) panels on three building roofs at SERRF, according to the scope of work attached. Installation will be completed by no later than December 15, 2001. The total project will be completed by January 1, 2003.

SCHEDULE

The Contractor has estimated the schedule as follows:

	<u>Completion Date</u>
1. Bid solicitation and review	4-6 weeks
2. Contract award and preparation/approval of drawings	4 weeks
3. Roof preparation and array installation	4-5 weeks
4. Array commissioning	2 weeks

CAPITAL IMPROVEMENT COST

The Contractor has estimated the cost as follows:

ξ Installed cost of 19-25 kV of PV	\$ 320,000.00
ξ Data acquisition plus computer interface	\$ 20,000.00
ξ Consultant support and reporting	\$ 11,500.00
ξ Montenay project support	<u>\$ 35,000.00</u>
Subtotal:	\$ 386,500.00

ξ Contingency (10% of Subtotal) \$ 38,650.00

Total: \$ 425,150.00

(Note: Application for rebates will be made to the California Energy Commission. Any rebates received will be applied to reduce the total cost of this Change Order.)

NO OTHER CHANGES

- 1. Except as specifically enumerated above, all other terms and provisions of the subject contract shall remain unchanged. The execution and delivery of this Change Order by the Contractor and the City shall not in any manner prejudice the rights which the Owner, the City or the Contractor may have to pursue any other claims which such party may have against the other, other than those claims which are the subject of the Change Order.

Charles R. Tripp 8/9/01
Charles R. Tripp
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Bureau Manager

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Marianne Ansel, Notary Public
Philadelphia, Philadelphia County
My Commission Expires Feb. 28, 2005
Assistant City Manager

Christopher J. Garner 8/15/01
Christopher J. Garner
Director Long Beach
Energy Department

Henry Taboada 8/21/01
Henry Taboada
City Manager

EXECUTED PURSUANT TO SECTION 301 OF THE CITY CHARTER.

Approved as to form this 8th day of August, 2001

Robert Shannon
City Attorney

By [Signature]
Deputy

Distribution:

Original - City Clerk
 City Auditor
 City Attorney
 Manager, Electric Generation Bureau
 Financial Management, Accounting
 Financial Management, Payments
 General Manager, SERRF Authority
 Plant Manager, MPPC, Long Beach

ATTACHMENT 1

Prior Change Orders:

1) Capital Improvement	\$500,000	Flyash treatment transfer conveyor & cement transfer screw conveyor installation.
2) Capital Improvement	\$ 86,000	Landscaping-various areas Dust control
3) Capital Improvement	\$ 29,000	Landscaping-Cooling Tower area Dust control
4) Capital Improvement	\$409,399	3 rd Pass boiler flyash removal system
5) Pass-thru (spare parts)	\$108,816	Inventory increase-spare motors
6) (a) Capital Improvement	\$179,375	Refuse driver's restroom construction.
(b) Base Operating Fee	\$ 43,305	Annual Costs in June 1993 dollars. Maintenance of Refuse driver's restroom.
7) (a) Capital Improvement	\$120,779	MACT Compliance
(b) Operations & Maint.	\$ 35,650	One time costs-Title V & Health Risk Assessment.
(c) Base Operating Fee	\$ 97,548	Additional Operations Costs (in 1993 dollars) per year
8) Capital Improvement	\$ 63,200	Underground Diesel storage tank modification.

9) Capital Improvement installation.	\$264,833	MSW drying Gas Burner
10) Capital Improvement	\$261,708	Steam blowing system and service Platform installation.
11) (a) Capital Improvement installation.	\$442,747	MSW drying gas burners
(b) Spare Parts	\$ 22,458	MSW Spare parts for drying gas burners
12) Capital Improvement	\$303,480	Installation of NOx reduction system with minimal ammonia slip.
13) Capital Improvement	\$104,500	Build and maintain a training room