



CHANGE ORDER(s)

CONTRACT CHANGE ORDER AUTHORIZATION NO. 31

DATED 4/12/2016

FILED WITH CONTRACT # 23336

(COVANTA ENERGY LLC)

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

Change Order No. 31
Contract No. 23336
Project: SERRF

Date: April 12th, 2016
Contractor: Covanta Energy, LLC

This Change Order:
\$ 140,074

Program No.: GOELAD
Prior Change Orders: See Attachment 1.

CAISO Qualifying Facility (QF) Conversion

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 4.3 of the Contract to operate provides for reimbursement for all costs approved by change order.
2. The Power Purchase Agreement between SERRF and SCE with a Firm operation date of December 8th, 1988 will expire on December 8th 2018.
3. The Operator Covanta will administer and provide consulting services to complete CAISO's new resource implementation process for qualifying facilities. This will include design, equipment and instruments, fabrication, testing, and all other related CAISO QF requirements detailed in attached proposal.
4. Covanta will prepare and submit all necessary interconnection application documents to CAISO and provide other project support as necessary to complete interconnection agreement with CAISO.
5. Covanta will prepare and submit all necessary interconnection application documents to SCE and provide other project support as necessary to complete interconnection agreement with SCE

SCOPE OF THE CHANGE ORDER

The change order is intended to cover all the costs related to the CAISOs QF conversion and applicable meter replacements.

SCHEDULE

It is estimated that the above-mentioned work will be completed within twenty-four (24) months of the change order approval.

COST OF CHANGE ORDER

The cost for the above-mentioned scope has been estimated as follows:

• RIG & Server Rack w/ Optional Meter Cabinet (details attached):	\$ 92,340
• Interconnection Consulting Services & Covanta Project Support:	\$ 35,000
Subtotal:	\$ 127,340
• Contingency (10.0% of Subtotal)	\$ 12,734
Total:	<u>\$ 140,074</u>

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 5/5/16
 Charles R. Tripp Date
 Electric Generation Bureau
 Manager

Derek Veenhof 4/29/16
 Derek Veenhof Date
 Executive Vice President

Robert Dowell 5/9/16
 Robert Dowell Date
 Director Long Beach
 Gas & Oil Department

Patrick West 9/23/16
 Patrick West Date
 City Manager

EXECUTED PURSUANT
 TO SECTION 301 OF
 THE CITY CHARTER.
 Assistant City Manager

Approved as to form this 27th day of April, 2016

 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, Covanta Long Beach
 Business manager Covanta 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	\$264,833	MSW Drying Gas Burner Installation
10) Capital Improvement	\$261,708	Steam Blowing System and Service Platform Installation
11) (a) Capital Improvement	\$442,747	MSW Drying Gas Burners Installation

(b) Spare Parts	\$ 22,458	MSW Spare Parts for 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
14) Capital Improvement	\$425,150	Install Photovoltaic System
15) Capital Improvement	\$ 28,875	Install Crane Deck Restroom
16) Capital Improvement	\$108,649	Upgrade COMS
17) Capital Improvement	\$190,596	Security Cameras
18) Capital Improvement	\$281,630	PV Demo Project Modification
19) Capital Improvement	\$255,596	Performance Improvement Work – Group 1 Design
20) Capital Improvement	\$153,891	Performance Improvement Work – Group 1 Implementation
21) Capital Improvement	\$556,292	Fueltech Demonstration Test – Urea System
22) Change of Law	\$ 47,225	AB 32 Implementation & Climate Exchange Registry
23) Change of Law	\$ 41,344	New SCAQMD CEMS for SERRF (NO2 Channel and NO2 Calibration)
24) Capital Improvement	\$190,250	Training Building Upgrade
25) Capital Improvement Change of Law	\$991,507	Reduction of Mercury Emission in Refuse-Burning Power Plant – (Carbon Injection System)
26) Capital Improvement	\$ 15,000	Engineering for a potential Ferrous and Non Ferrous Metal recovery System

27) Capital Improvement	\$ 58,436	Fire Protection Upgrades Required Due to New Fire Protection Codes on Elevator Refurbishing
28) Insurance	\$1,372,525	Purchase of property insurance provided by Contractor
29) Capital Improvement	\$ 550,000	Covers actual costs for the purchase of powder activated carbon, parts, and outside labor related expenses
30) Insurance	\$1,296,900	Purchase of property insurance provided by Contractor