

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

Remedial Change Order No. 02
Contract No. 23336
Project: SERRF

Date: November 28th, 2018
Contractor: Covanta Energy, LLC

This Change Order:
\$1,989,840

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

Remedial Work Period Change Order #2

- **Ram Replacement (Ash dischargers)**

BACKGROUND

This Remedial Work Change Order #2 is issued in accordance with provisions set forth in the subject Contract with reference to the following facts:

1. The 5th Amendment in reference to Section 4.3 and 3.1 of the Contract to operate provides for reimbursement for all costs approved by remedial work change order.
2. The City and Operator (Covanta) have amended the contract (5th Amendment) to invest into the SERRF facility over the Remedial Work Period.
3. Remedial Work Period means the period commencing January 1, 2018 and ending June 30, 2021, unless extended as a result of City Fault or an Uncontrollable Circumstance.
4. The Operator will solicit contractor proposals and administer scope of work required on the all Remedial work projects. This will include design, equipment, fabrication, testing, and all other related replacement and maintenance relative to the projects attached. Including any and all cleanup and maintenance as a result of remedial projects and any and all technical and safety training and education associated with the projects.

SCOPE OF REMEDIAL WORK CHANGE ORDER

The change order is intended to cover all the costs related to the projects outlined in this Remedial Change order.

SCHEDULE

It is estimated that the above-mentioned work will be completed within the Remedial Work Period commencing January 1, 2018 and ending June 30, 2021.

COST OF REMEDIAL WORK CHANGE ORDER #2

The cost for the above-mentioned scope has been estimated as follows. The Operator will pay the first **\$1,553,443** and the City to pay the remaining.

Ram Replacement

U1 Ash Discharger	\$194,421
U2 Ash Discharger	\$194,421
U3 Ash Discharger	\$194,421
U2 Pre Outage work	\$47,442
U1/2/3 Road Plates	\$44,428
U2 Demo & Install	\$258,839
U1 Demo & Install	\$258,839
U3 Demo & Install	\$258,839
Inlet chutes U1/2/3	\$206,550
 Estimated Ram Replacement	 \$1,658,200
 <i>Estimated Total:</i>	 \$1,658,200
<i>Not to Exceed Covanta Project Support (10%)</i>	<i>\$165,820</i>
<i>Contingency (10%)</i>	<i>\$165,820</i>
 <i>Total Projects Not to Exceed:</i>	 <i>\$1,989,840</i>

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 1/2/19
 Charles R. Tripp Date
 Electric Generation Bureau
 Manager

[Signature] Dec 7/18
 Derek Veenhof Date
 Executive Vice President

[Signature] 1/3/19
 Robert Dowell Date
 Director Long Beach
 Gas & Oil Department

[Signature] 1/8/19
 Patrick West Date
 City Manager

Tom Modica
Assistant City Manager

**EXECUTED PURSUANT
 TO SECTION 301 OF
 THE CITY CHARTER**

Approved as to form this 31st day of December, 2018

[Signature]
 City Attorney

By LINDA VU
 Deputy

Distribution:
 Original - City Clerk
 City Auditor
 City Attorney
 Manager, Electric Generation Bureau

REMEDIAL WORK
CHANGE ORDER #2

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Financial Management, Accounting
Financial Management, Payments
General Manager, SERRF Authority
Plant Manager, Covanta Long Beach
Business manager Covanta Long Beach

REMEDIAL WORK
CHANGE ORDER #2

<u>Amount funded:</u>	<u>Total</u>	<u>City</u>	<u>Contractor</u>
Remedial Work #1	\$2,273,150	\$2,273,150	\$0
Remedial Work #2	\$1,989,840	\$436,397	\$1,553,443
Total Expended:	\$4,262,990	\$2,709,547	\$1,553,443

ATTACHMENT 1

REMEDIAL WORK LIST 1 & 2

List 1 Remedial Work

Circ Water/Cooling Tower
Circ Water Pump Overhaul
Circ Water Pump Screens

Boiler

Amstar Replacement 2500 sqft
Rear Wall Panel Replacements, All Units
Blowdown Tank
Feed Table Overhaul, Units 1 & 3
Grate Overhaul, Unit 2

Scrubber

Roof & Top 4' Cylinder Replacement
Cone Replacement, SS, Spray Insulation & Scaffold
Reattach Scrubber to Drags

Baghouse

Inlet Dampers
Hopper Replacement
Reverse Air Duct
Expansion Joint Replacements

Ram Replacement

3 New Dischargers/Rams
Installation of Dischargers/Ram
Platform Modifications after install \$

Bottom Ash Conveyor Upgrade

Slip Stick Conveyor
Demo & Installation
Ash House Grizzly & Vibrator Mods

Flash Conveying

Baghouse Screws & Troughs, Replacement
FA-2 Overhaul
FA-3 Overhaul
FA-4 Overhaul
FA-5 Overhaul
FA-6 Overhaul

Safety

Safety, Electrical, & Related Projects

REMEDIAL WORK
CHANGE ORDER #2

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Profiled Waste Handling

Hopper Tipper. Short Term Solution
Hopper Tipper. Long Term Solution

List 2 Remedial Work

Boiler

Feed Chutes Refractory Lined
SPG, 4 per Boiler, Replacement
Rappers for the Economizer/Evaporator Sections
Ground Floor Grit Screen and Electrical

Baghouse

Baghouse Damper Repairs, Each Unit

Control Systems

Controls Upgrade