

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

Remedial Change Order No. 04  
Contract No. 23336  
Project: SERRF

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

This Change Order:  
\$2,435,911

Program No.: GOELAD  
Prior Change Orders: See Attachment

**Remedial Work Period Change Order #4**  
**• Boiler Work Phase 1**

**BACKGROUND**

This Remedial Work Change Order #4 is issued in accordance with provisions set forth in the subject Contract with reference to the following facts:

1. The 5<sup>th</sup> 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 (5<sup>th</sup> 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 #4**

The cost for the above-mentioned scope has been estimated as follows. The Operator will pay the first **\$887,646** and the City to pay the remaining.

**Boiler:**

U3 Upper Furnace Right Wall (Amstar Repl. Est)	\$123,027
U2 Upper Furnace Left Wall (Amstar Repl. Est)	\$165,107
U2 Upper Furnace Right Wall Amstar Repl. Est)	\$165,107
U3 Rear Wall Panel Replacement	\$462,843
U1 Feed Table Replacement/Fabrication	\$159,739
U3 Feed Table Replacement/Fabrication	\$159,739
U1 Wear Plates	\$ 19,034
U3 Cylinders Replacement	\$ 42,171
Grate Repairs, Unit 2	\$168,330
U2 Pre Outage Work	\$ 27,060
U2 Grate Overhaul	\$268,527
Grate Drive Cylinders New	\$ 29,498
10 Grate Drive Cylinders Refurb	\$ 63,571
Grate feeder Cylinder Coupling	\$ 15,066
Stoker Push Rods	\$ 11,106
Scaffolding (Estimate)	\$ 75,000
Ground Floor Grit Screen and Electrical (Est.)	\$ 75,000
 Estimated Boiler:	 \$2,029,925
 <i>Contingency (10%)</i>	 <i>\$202,993</i>
 <i>Not to Exceed Covanta Project Support (10%)</i>	 <i>\$202,993</i>
 <b><u>Total Projects Not to Exceed:</u></b>	 <b><u>\$2,435,911</u></b>

**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  
Date  
Charles R. Tripp  
Electric Generation Bureau  
Manager

Derek Veenhof Dec 17/18  
Date  
Derek Veenhof  
Executive Vice President

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

Patrick West 1/8/19  
Date  
Patrick West  
City Manager

**Tom Modica**  
**Assistant City Manager**  
EXECUTED PURSUANT  
TO SECTION 301 OF  
THE CITY CHARTER

Approved as to form this 31<sup>ST</sup> day of December, 2018

[Signature]  
City Attorney

By LINDA VA  
Deputy

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

REMEDIAL WORK  
CHANGE ORDER #4

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

REMEDIAL WORK  
CHANGE ORDER #4

Amount funded:	Total	City	Contractor
Remedial Work #1	\$2,273,150	\$2,273,150	\$0
Remedial Work #2	\$1,989,840	\$436,397	\$1,553,443
Remedial Work #3	\$2,693,413	\$1,711,933	\$981,480
Remedial Work #4	\$2,435,911	\$1,548,265	\$887,646
Total Expended:	\$9,392,314	\$5,969,745	\$3,422,569

**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 #4

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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

REMEDIAL WORK  
CHANGE ORDER #4

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