



## Lodi Energy Center Project Participant Committee Staff Report

AGENDA ITEM NO.: 13

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**Date:** December 4, 2017  
**Meeting Date:** December 11, 2017  
**To:** Lodi Energy Center Project Participant Committee  
**Subject:** Lodi Energy Center 2018 Spring Outage – April 2018

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### Proposal

Approve authorization for the NCPA General Manager to execute agreements and issue purchase orders for maintenance work related to the Lodi Energy Center (LEC) 2018 Spring Outage, for a total cost not to exceed \$1,798,856.

### Background

The Lodi Energy Center has an outage scheduled for April 2-22 for work related to the 2018 Spring outage. During the outage, the LEC team will complete preventative maintenance work on equipment that cannot be worked on while the unit is operating without affecting the output of the facility. NCPA will hire a number of contractors to perform work during the 2018 Spring outage.

Listed below is a summary of the work to be performed as a part of the 2018 Spring outage:

1. Gas Turbine
  - a. Air Filters
  - b. Drain System
  - c. Bearing Thermocouple
  - d. Inlet Bleed Heater Paint
  - e. Fuel Valve Refurbishment
2. Steam Turbine
  - a. Valve Soft Goods
  - b. Condenser Seal
  - c. Insulation
3. Water Treatment
  - a. General Maintenance
  - b. Chemical Clean Injection Well
  - c. Cooling Tower Cleanout
  - d. Cooling Tower Booster Pump
  - e. Condensate MU Pump
  - f. Cooling Tower Repairs
4. Electrical Systems
  - a. Relay Upgrade
  - b. Miscellaneous Electric
5. HRSG / Steam

- a. High Energy Pipe Survey
  - b. Critical Valve Maintenance
  - c. Penetration Seals
  - d. Insulation
  - e. Stack Painting
  - f. HRSG Potential Repairs
  - g. HP Casing / Tube Guide
  - h. Hot Spots
  - i. Floor
6. Balance of Plant
- a. Relief Valves
  - b. Diesel Fire
  - c. Condensate ARC Valves
7. Incidentals
- a. Crane
  - b. Toilets
  - c. Trailers / Guard
  - d. Forklift / Manlift
  - e. Scaffold
  - f. Confined Space

Selection Process

All of the work has been put out for bid to qualified contractors and the lowest priced qualified contractors will be awarded the work.

Fiscal Impact

<b>2018 Spring Outage</b>	<b>Anticipated Cost</b>
Gas Turbine	\$211,000
Steam Turbine	\$125,000
Water Treatment	\$200,000
Electrical Systems	\$83,652
HRSG / Steam	\$751,000
Balance of Plant	\$81,000
Incidentals	\$205,500
Contingency	\$141,704
<b>TOTAL</b>	<b>\$1,798,856</b>

The budgetary funds to complete the 2018 Spring outage include \$830,000 of pre-collected funds in the Maintenance Reserve (Account # 265-009-005-610-044-002). The remainder of funds, \$968,856, were anticipated in the Routine O&M budget.

Environmental Analysis

These activities are categorically exempt under Class 1 and 2 from the provisions of the California Environmental Quality Act pursuant to Section 15301 (b) and 15302 (c) of the CEQA Guidelines. A Notice of Exemption was approved by the NCPA Commission on September 27, 2013 for this class of work and was filed in San Joaquin County.

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Submitted by:

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