

SERVICE AGREEMENTS WITH CORMETECH FOR RFP NOS. 1882 and 1883 FOR CARBON MONOXIDE AND NITROGEN OXIDE CATALYSTS AT RERC UNITS 1 & 2

Riverside Public Utilities

Board of Public Utilities
March 11, 2019

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BACKGROUND

1. RERC Units 1&2

- a. Commissioned in June 2006
- b. Reliable units – 96 MW total
- c. Critical to meeting electricity demands

2. CO Catalyst

- a. Expected life 7 years – lasted 13 years
- b. Reduces >90% of the CO emissions
- c. Permit limit = 6 ppm
- d. Lab results recommends replacement

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BACKGROUND

3. SCR Catalyst

- a. Reduces >90% of NOx emissions from gas turbine
- b. Permit limit = 2.5 ppm
- c. Lab results indicate no issues with catalyst life
- d. Restack of elements restores module integrity and performance

4. Shift in performance detected after 2018-2020 Budget approval

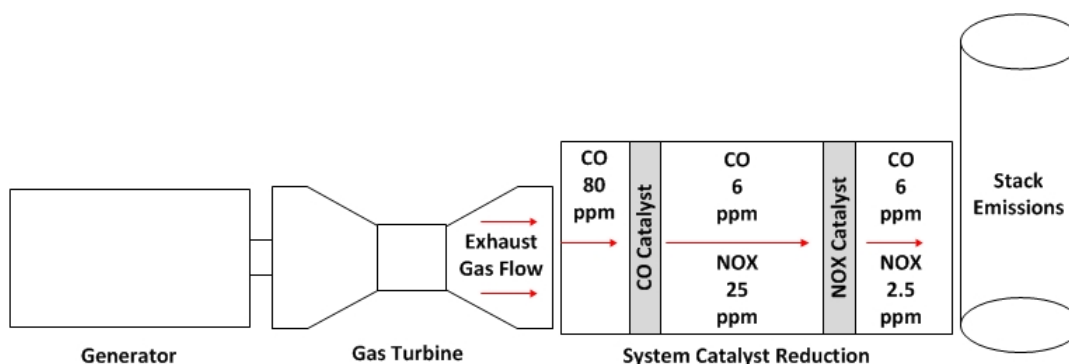
5. RERC 1&2 regulatory compliance contingent on the completion of the projects



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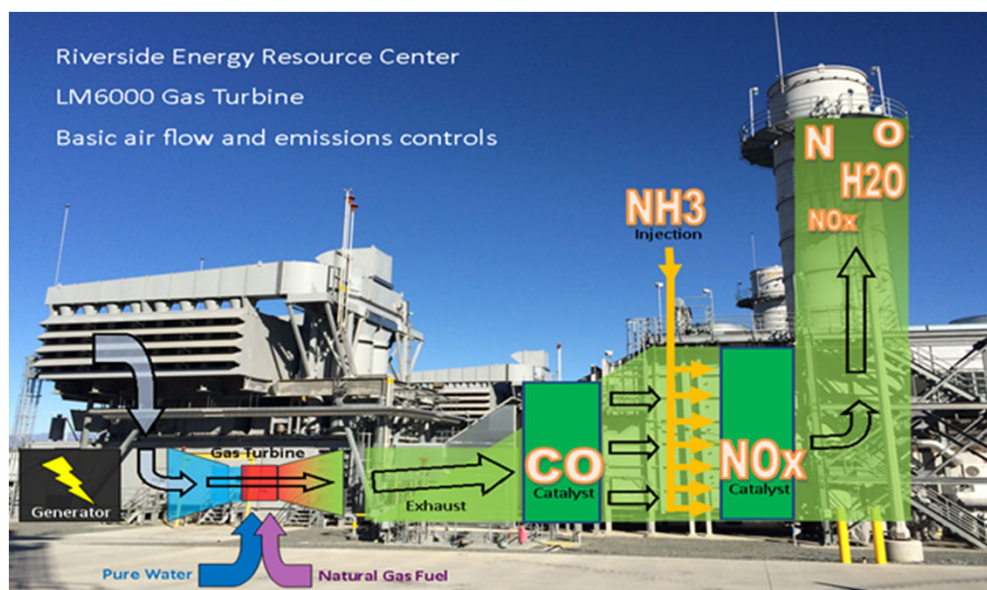
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GAS TURBINE FLOW OF EMISSIONS



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Example of CO Catalyst module

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Example of SCR module with elements shifted and sealing materials missing

DISCUSSION

1. RFPs 1882 and 1883 posted Nov. 30 to Dec. 18, 2018
 - a. Staff evaluated each RFP and selected Cormetech as most responsive for both RFPs
 - i. SCR Maintenance = \$202,865
 - ii. CO Catalyst = \$561,195
2. Total Capital Project Work Order = \$835,865

RECOMMENDATIONS

That the Board of Public Utilities:

1. Approve an Agreement for Selective Catalytic Reduction Maintenance and Turnkey Installation Services for the Riverside Energy Resource Center Units 1 and 2 in response to Request for Proposal No. 1882 with Cormetech, Inc., of Durham, North Carolina for \$202,865;

RECOMMENDATIONS

2. Approve an Agreement for Carbon Monoxide Catalyst Replacement and Turnkey Installation Services for the Riverside Energy Resource Center Units 1 and 2 in response to Request for Proposal No. 1883 with Cormetech, Inc., of Durham, North Carolina for \$561,195;
3. Approve Work Order No. 1917240 for work associated with the Riverside Energy Resource Center Catalyst Projects in a total amount of \$835,865; and

RECOMMENDATIONS

4. Authorize the City Manager, or designee, to execute all documents pursuant to the Agreements with Cormetech, Inc. and any other documents as necessary to effectuate the Agreements including making minor non-substantive changes.