



**CORMETECH, INC.**  
Treyburn Corporate Park  
5000 International Drive  
Durham, North Carolina 27712 USA

via email JPerez@riversideca.gov

February 14, 2019

Jim Perez  
City of Riverside  
Public Utilities, Power Resources Generation

Subject: Proposal for CO Catalyst Replacement & Turnkey Installation Services  
Riverside Energy Resources Units No. 1 and No. 2  
Conformed

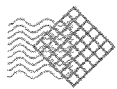
Reference: PlanetBids RFQ 1883 – CO Oxidation Catalyst Replacement on Riverside Energy Resource  
Units No. 1 and No. 2

Dear Jim:

We are pleased to confirm our proposal for the supply and turnkey installation of the CO catalyst for Riverside Energy Resource Units No.1 and No. 2. Supporting documentation is provided herein to facilitate your administration. A Table of Contents has been inserted as Page 2.

We look forward to launching this project and appreciate your expedited efforts to issue us a release at your earliest convenience so that the CO catalyst materials may be procured.

Best regards,  
*Richard Weiland*  
Business Development Manager  
(919) 724-2859  
WeilandRJ@cormetech.com



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## EXPERIENCE & LICENSING

### EXPERIENCE

Cormetech designs and manufactures SCR catalysts for power generating equipment and process systems, relying on the most advanced and longest employed SCR technology. It is our hallmark to build trust, empathy and commitment. These values form our character and guide us as we serve you.

<i>Application</i>	<i>Units</i>
Utility Boilers	262
Natural Gas Fired	72
Coal Fired	188
Combustion Turbines	835
Biomass Boilers	9
Diesel Engines	50
Refinery & Industrial Processes	278
<b>Total Units</b>	<b>1432</b>

Our available scope of supply extends well beyond the supply of catalysts, new and regenerated, to include performance guarantees, flue gas flow modeling, long-term catalyst management, field and laboratory testing services, on-site training and spent catalyst restoration.

<i>Service Category</i>	<i>Experience</i>
Testing Services	> 3500 projects
Maintenance	> 500 projects
AIG Tuning	> 100 projects
Turnkey Installations	> 100 units
Commissioning	> 30 projects

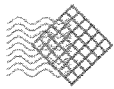
Since its formation in 1989, Cormetech has continuously introduced new products and services to meet customers' requirements. Cormetech offers its very best technology and breadth of resources to ensure reliable performance at the lowest total ownership cost.

Cormetech is selected for the majority of all SCR catalyst supply, and even more strongly so for replacements of aging systems. This is due to the extremely reliable operating history, superior technical resourcing and service quality of our dedicated team of SCR professionals.

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For replacement SCR catalysts in NG-fired systems, Cormetech has the following extraordinary record: Lowest achieved emission systems for simultaneous NOx and NH<sub>3</sub>.

- Over 25 simple cycle replacements of other OEM catalyst
- Experience-supported guarantees of >10 years performance
- Selected by owner to replace other catalyst OEM in >100 SCRs to date
- Experienced in replacement of every SCR catalyst type and manufacturer worldwide.

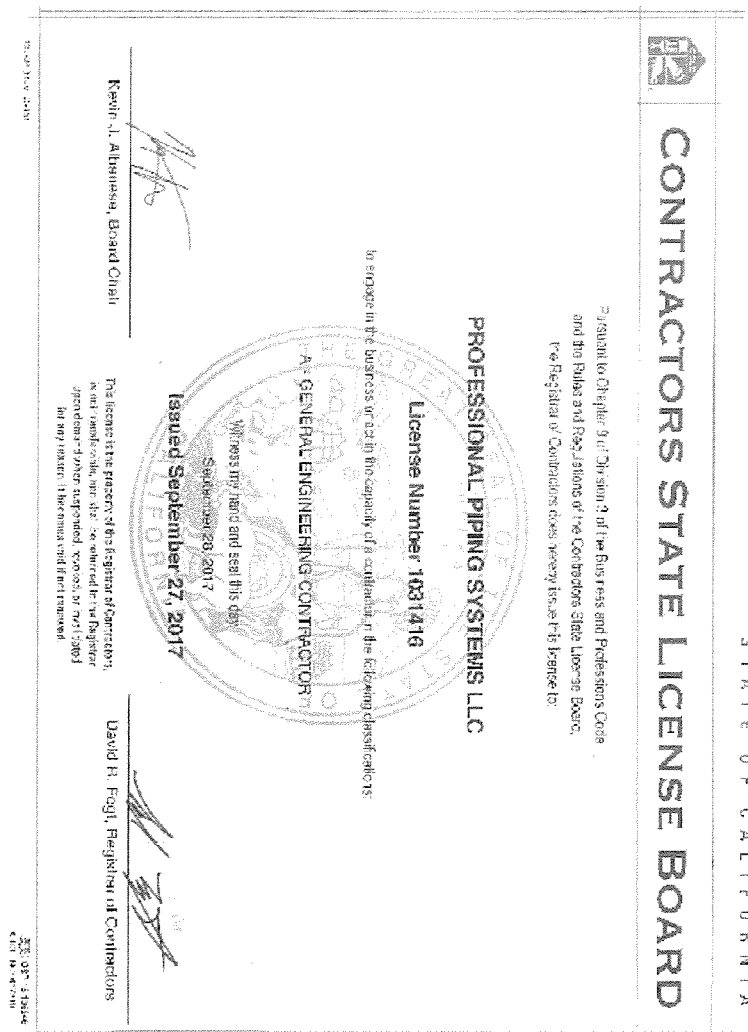


**CORMETECH**

Conformed Proposal to City of Riverside  
Riverside Energy Resources Units No. 1 and No. 2  
PlanetBids RFQ 1883; February 14, 2019

## LICENSES AND REGISTRATIONS

California Contractor's License is held by Professional Piping Systems, LLC:  
License # 1031416

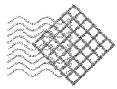


State of California Department of Industrial Relations Registrations:  
Cormetech, Inc. # 1000063724  
Professional Piping System, LLC # 1000063663

All craft labor will be executed by PPS, LLC under subcontract to Cormetech, Inc. Reporting of general and craft labor compliance will be issued under PPS' DIR number. Cormetech is directly providing specialty technical services that do not qualify as general or craft labor.

**REFERENCES**

<i>Site</i>	<i>Contact</i>	<i>Cormetech Scope Of Supply</i>
<b>Calpine Corporation</b> All Units	Brian Fretwell, PE (925) 252-2092 Brian.Fretwell@calpine.com	Inspection & Sampling SCR Testing Services Replacement SCR & CO Catalyst Turnkey Installation of SCR & CO Catalyst SCR Reactor Modifications/Repairs Acceptance/Performance Testing Catalyst Disposal
<b>Dominion Generation</b> All Units	George Valentine (804) 273-3601 George.Valentine@dom.com	Inspection & Sampling SCR Maintenance AIG Tuning SCR Testing Services Replacement SCR Catalyst Turnkey Installation of SCR Catalyst Acceptance/Performance Testing SCR Catalyst Disposal
<b>Salt River Project</b> Desert Basin Generating Station, 2 Units Kyrene Generating Station, 1 Unit Santan Generating Station, 3 Units	Hank Hamblin (Desert Basin) (602) 236-0785 Hank.Hamblin@srpnet.com  Bill Plona (Santan) (602) 236-5568 William.Plona@srpnet.com	SCR Testing Services Replacement SCR & CO Catalyst Turnkey Installation of SCR & CO Catalyst
<b>Arizona Public Service Company</b> Sundance Units 1-2 and 3-10	Jesthan Hardy Project Manager I, Fossil Projects Office Tel #: 602 250-5182 Cell Phone #: 602-397-1733 <u><a href="mailto:jesthan.hardy@aps.com">jesthan.hardy@aps.com</a></u>	Replacement SCR & CO Catalyst Turnkey Installation of SCR & CO Catalyst



## SCOPE OF SUPPLY

### REPLACEMENT CO CATALYST

- BASF Camet® CO Catalyst and Module Design, Engineering and Supply
- 80 CO Catalyst Modules per Unit
- 8 Removable CO Catalyst Sample Element Housing per unit – 2 sample modules per unit with 4 test coupons each
- Transportation – FCA Jobsite

#### *Performance Warranties*

- Pressure Drop Across CO Catalyst
- Outlet CO Performance
- Outlet VOC Performance

### DOCUMENTATION SUBMITTALS

- Drawings
- Installation Procedures
- Schedules
- Operations and Maintenance Manuals

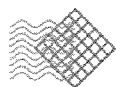
### CO TURNKEY INSTALLATION

#### *Provided by Cormetech*

- Onsite Technical Field Service Management by Cormetech personnel
- Installation team including hole watch; Non-union labor
- 7-Day Work Schedule
  - Dates TBD (Contingent upon delivery of CO catalyst)
  - Possible Work Hours: 5:00am – 8:30pm
  - Mobilization may occur on day prior to beginning in-unit work
- Scaffolding (1 tower per unit)
- Equipment and tooling to support work scope
- Removal of existing CO Catalyst module support hardware
- Removal of 80 existing CO Catalyst modules per unit
- Disposal/Recycling of existing CO Modules
- Installation of 80 new CO Catalyst modules per unit
- Unit clean-up
- One-year workmanship warranty

#### *Provided by Site*

- Safety policies and specific procedural requirements
- Onsite representative for communication, safety response and inspections
- Staging space for vehicles and tools
- Break area and rest room facilities
- Power and service air supply



## CO CATALYST GUARANTEES

<i>Guaranteed Parameter</i>	<i>In-Kind Replacement</i>
<i>Mechanical Warranty</i>	Twelve (12) months from date of start up or eighteen (18) months from date of delivery, whichever is earlier
<i>Performance Guarantee</i>	Earlier of Five (5) Years of operation or 5.5 years after delivery, whichever occurs first
<i>CO Catalyst Pressure Drop</i>	≤ 1.5 inH <sub>2</sub> O
<i>Outlet CO</i>	≤ 6 ppmvdc
<i>Outlet VOC</i>	≤ 2 ppmvdc

Guaranteed performance is based on:

- Table A – Performance Data (6 ppmvd CO Outlet)
- Corrected concentrations are corrected to 15% oxygen unless otherwise noted.
- VOC oxidation is based on non-methane, non-ethane, ≤50% saturated hydrocarbons

## CO INLET DISTRIBUTION CONDITIONS

	<i>In-Kind Replacement</i>
<i>Flue Gas Velocity Maldistribution</i>	15.0 %RMS normal
<i>Flue Gas Temperature Maldistribution</i>	25 ± °F

## CO CATALYST PRICING

<i>Option</i>	<i>In-Kind Replacement</i>
<i>Number of Units</i>	2
<i>Delivery Terms</i>	FCA Jobsite
<i>Delivery Date</i>	10 – 12 Weeks After Receipt of PO
<i>Catalyst Proposal Validity</i>	45 days
<i>Payment Terms</i>	Net 30 days
<i>CO Catalyst Pricing</i>	\$462,800
<i>Estimated Taxes (8.75% Rate)</i>	\$40,495
<i>Freight</i>	\$8,000
<i>Estimated Recycle Credit</i>	\$45,000
<i>Estimated CO Catalyst Total</i>	\$466,295

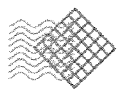
- The price of all goods and services offered herein is exclusive of all taxes and/or fees that Buyer may owe as a result of purchase and/or use. An estimate of taxes based on the current rate at the time of proposal has been provided. However, Buyer will be invoiced at the actual prevailing rate at time of delivery.
- BASF Corp. agrees to support buyer's efforts in the disposal of spent catalyst and potential metal reclaim from spent catalyst. The catalyst proposed contains platinum group metals, and unless contaminated in operation by others, is not a hazardous material. Buyer may receive credit for recovered platinum metals based upon the quantity of platinum group metals recovered and the world price of platinum group metals then in effect, net of recovery cost and disposal costs. A conservative estimate has been provided for bid evaluation.



## TURNKEY PRICING

<i>Pricing (Both Units)</i>	\$94,900
<i>Site Management for Turnkey Installation Services</i>	Included with Complete Turnkey Installation Service
<i>Field Service Rates</i>	<p>For on-site supervision of installation, refurbishment, performance testing, and other field service work, we will bill only for the service days required at the then prevailing rate. Current variable rate is:</p> <ul style="list-style-type: none"> <li>\$1200 per man-day, 8-hour Monday through Friday workday any part thereof, departure to return <ul style="list-style-type: none"> <li>Overtime hours Monday through Friday prorated at 150%</li> <li>Weekend rates at 150% of Monday through Friday</li> <li>Holiday rates at 200% of Monday through Friday</li> </ul> </li> <li>Transportation and Incidentals, cost plus 10%</li> <li>Lodging, per current published US Dept of State Per Diem Domestic Travel Allowances, all-in (includes meal allowances)</li> </ul>
<i>Cancellation Schedule – Replacement Catalyst</i>	<p>5% 1 week after Award 15% After Final Engineering Specification &amp; Drawing Submittal 55% After Material Procurement 100% After Start of Manufacturing</p>
<i>Cancellation Schedule – Turnkey Removal/Installation Services</i>	<p>15% Prior to Mobilization To be determined by Actual Progress Post-Mobilization</p>
<i>Invoice Schedule, % of Contract Value, Replacement Catalyst</i>	<p>35% upon Award 35% upon Contracted Delivery of CO Replacement Catalyst 20% upon Installation Completion 10% upon earlier Acceptance or 90 days from Contracted Delivery</p>
<i>Invoice Schedule, % of Contract Value, Turnkey Services</i>	<p>20% upon Order 70% upon Turnkey Completion 10% upon earlier Acceptance or 90 days from Turnkey Completion</p>
<i>Payable</i>	Net 30 days
<i>Taxes and Fees</i>	The price of all goods and services offered herein is exclusive of all taxes and/or fees that Buyer may owe as a result of purchase and/or use. Such taxes and fees will be invoiced accordingly. In procurement, if the Buyer instructs Seller to invoice for goods and services free of sales and related tax charges, Buyer will provide Seller with its documentation for resale, direct pay or exemption.
<i>Terms and Conditions</i>	Per previously agreed upon terms (Reference of Springs Generation PO from 04/04/12 attached)
<i>Proposal Validity</i>	45 days





## PRELIMINARY SCHEDULE

Schedule will be finalized with Site Planner after award to coordinate entire outage job scope(s), preliminary schedule provided below.

<i>Tentative Timing</i>	<i>Task</i>
<i>Day 1</i>	Jobsite mobilization, complete safety training, install scaffolding on first unit, begin CO catalyst module removal
<i>Day 2</i>	Remove existing CO modules from first unit, begin installing new CO modules
<i>Day 3</i>	Complete install of new CO modules in first unit, unit clean-up, remove scaffolding
<i>Day 4</i>	Install scaffolding on second unit, begin CO catalyst module removal
<i>Day 5</i>	Remove existing CO modules from second unit, begin installing new CO modules
<i>Day 6</i>	Complete install of new CO modules in second unit, unit clean-up, remove scaffolding
<i>Day 7</i>	Contingency



## Table A - Performance Data (6 ppmvd CO Outlet)

CORMETECH CONFIDENTIAL

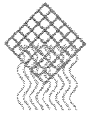


Table A - Performance Data (6 ppmvd CO Outlet)

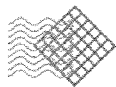
DUCT BURNER - FIRED / UNFIRED	CASE #	102	100	101	102	100	101	102	100	101	102	100	101	102	100	101	102	100	101
	AMBIENT TEMP, °F	72.2	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	LOAD, %	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	FUEL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG
	GIVEN BURNER HEAT ADDED, MMbtuh - LHV	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	GIVEN GAS FLOW AFTER BURNER, lb/hr	751,536	1,056,726	955,430	751,490	1,056,739	955,610	751,576	1,056,736	955,844	751,668	1,056,726	955,430	751,668	1,056,726	955,430	751,668	1,056,726	955,430
	GIVEN GAS ANALYSIS - AFTER BURNER, % VOL. - N2	74	72	73	74	72	73	74	72	73	74	72	73	74	72	73	74	72	73
	O2	15	13	14	15	13	14	15	13	14	15	13	14	15	13	14	15	13	14
	CO2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	H2O	8	11	9	8	11	9	8	11	9	8	11	9	8	11	9	8	11	9
Ar	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
CALC. GAS MOL. WT.																			
CALC. CO AFTER BURNER, lb/hr	28.33	28.09	28.24	28.33	28.09	28.24	28.33	28.09	28.24	28.33	28.09	28.24	28.33	28.09	28.24	28.33	28.09	28.24	28.33
CALC. CO AFTER BURNER, ppmvd @ 15% O2	47.489069	41.017683	36.798448	47.488162	41.018187	36.805381	47.491596	41.018071	36.814393	47.49741	41.017683	36.798448	47.49741	41.017683	36.798448	47.49741	41.017683	36.798448	47.49741
CALC. VOC AFTER BURNER, lb/hr	0.2379896	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.7635031	0.4581714
CALC. VOC** AFTER BURNER, ppmvd @ 15% O2	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.3	1
GIVEN GAS TEMP. @ CO CATALYST, °F (+/-25)	766	826	755	764	827	756	766	828	757	766	826	755	766	826	755	766	826	755	766
DESIGN REQ. CO OUT, ppmvd @ 15% O2	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
VOC OUT, ppmvd @ 15% O2	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Guaranteed Performance Data																			
CO Conversion, % - Min.	93%	85%	87%	93%	85%	87%	93%	85%	87%	93%	85%	87%	93%	85%	87%	93%	85%	87%	93%
CO OUT, lb/hr - Max	3.6	6.2	4.8	3.6	6.2	4.8	3.6	6.2	4.8	3.6	6.2	4.8	3.6	6.2	4.8	3.6	6.2	4.8	3.6
CO OUT, ppmvd @ 15% O2	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
CO PRESSURE DROP, inH2O - Max.	0.9	1.5	1.2	0.9	1.5	1.2	0.9	1.5	1.2	0.9	1.5	1.2	0.9	1.5	1.2	0.9	1.5	1.2	0.9
Expected Performance Data																			
SO2 -> SO3 Conversion, % - Max	48%	54%	38%	48%	55%	38%	48%	55%	38%	48%	55%	38%	48%	55%	38%	48%	54%	38%	48%
NO -> NO2 Conversion, % - Max	35%	21%	33%	35%	20%	33%	35%	20%	33%	35%	20%	33%	35%	20%	33%	35%	21%	33%	35%
VOC** CONVERSION, % - Min	48%	48%	46%	48%	48%	46%	48%	48%	46%	48%	48%	46%	48%	48%	46%	48%	48%	46%	48%
VOC** OUT, lb/hr	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.5
VOC** OUT, ppmvd @ 15% O2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.2	0.5
**VOC: NON-METHANE - 0% Ethane - 100% NMtHC - 50% SAT																			

\*\*VOC: NON-METHANE - 0% Ethane - 100% NMNEHC - 50% SAT.



Table A - Performance Data (6 ppmvd CO Outlet)

CASE #	DUCT BURNER - FIRED / UNFIRED									
	102	100	101	102	100	101	102	100	101	102
AMBIENT TEMP, °F	115	115	115	115	115	115	115	115	115	115
LOAD, %	100	100	100	100	100	100	100	100	100	100
FUEL	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG
GIVEN GAS ANALYSIS - AFTER BURNER, % VOL. - N2										
UNFIRED	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FIRED	751,490	1,056,739	955,610	751,536	1,056,736	955,844	751,688	955,844	751,688	751,688
GIVEN GAS ANALYSIS - AFTER BURNER, % VOL. - O2										
UNFIRED	74	72	73	74	72	73	74	72	73	74
FIRED	15	13	14	15	13	14	14	13	14	14
GIVEN GAS ANALYSIS - AFTER BURNER, % VOL. - CO2										
UNFIRED	3	3	3	3	3	3	3	3	3	3
FIRED	8	11	9	8	11	9	9	11	9	8
GIVEN GAS ANALYSIS - AFTER BURNER, % VOL. - H2O										
UNFIRED	1	1	1	1	1	1	1	1	1	1
FIRED	Ar	Ar	Ar	Ar	Ar	Ar	Ar	Ar	Ar	Ar
CALC. GAS MOL. WT.										
UNFIRED	28.33	28.09	28.24	28.33	28.09	28.24	28.33	28.09	28.24	28.33
FIRED	47.505541	41.018187	36.805381	47.489069	41.018071	36.814393	47.579469	41.018071	36.814393	47.579469
CALC. CO AFTER BURNER, lb/hr										
UNFIRED	80	40	46	80	40	46	80	40	46	80
FIRED	0.2720825	0.7635125	0.4582577	0.2719881	0.7635103	0.4583699	0.2725059	0.7635103	0.4583699	0.2725059
CALC. VOC** AFTER BURNER, ppmvd @ 15% O2										
UNFIRED	0.8	1.3	1	0.8	1.3	1	0.8	1.3	1	0.8
FIRED	764	827	756	766	828	757	768	828	757	768
GIVEN GAS TEMP. @ CO CATALYST, °F (+/-25)										
UNFIRED	600	600	600	600	600	600	600	600	600	600
FIRED	200	200	200	200	200	200	200	200	200	200
DESIGN REQ. CO OUT, ppmvd @ 15% O2										
UNFIRED	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
FIRED	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
DESIGN REQ. VOC OUT, ppmvd @ 15% O2										
UNFIRED	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
FIRED	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Guaranteed Performance Data										
CO Conversion, % - Min.										
UNFIRED	93%	85%	87%	93%	85%	87%	93%	85%	87%	93%
FIRED	3.6	6.2	4.8	3.6	6.2	4.8	3.6	6.2	4.8	3.6
CO OUT, ppmvd @ 15% O2										
UNFIRED	6	6	6	6	6	6	6	6	6	6
FIRED	0.9	1.5	1.2	0.9	1.5	1.2	0.9	1.5	1.2	0.9
Expected Performance Data										
SO2 -> SO3 Conversion, % - Max										
UNFIRED	48%	55%	38%	48%	55%	38%	48%	55%	38%	48%
FIRED	35%	20%	33%	35%	20%	33%	35%	20%	33%	35%
NO -> NO2 Conversion, % - Max										
UNFIRED	48%	48%	46%	48%	48%	46%	48%	48%	46%	48%
FIRED	0.1	0.4	0.2	0.1	0.4	0.2	0.1	0.4	0.2	0.1
VOC** OUT, lb/h										
UNFIRED	0.4	0.7	0.5	0.4	0.7	0.5	0.4	0.7	0.5	0.4
FIRED	0.4	0.7	0.5	0.4	0.7	0.5	0.4	0.7	0.5	0.4
**VOC: NON-METHANE - 0% Ethane - 100% NMNEHC - 50% SAT.										



## BASF CO DETERIORATION MECHANISMS

*The following table illustrates some components that could potentially be present in the off-gas and their potential impact and effect on the catalyst activity.*

*Unfortunately, no one could give a simple direct answer re: "which concentration of each component is allowed in the offgas without poisoning the catalyst". The answer can vary greatly. It depends on so many variables, such as operating conditions (flow, temperature) and mainly for how long the poison is being fed to and is in contact with the catalyst, and in which form. If the compound builds up on the catalyst or plugs the active sites, it becomes a problem, even if present at very low contents in the offgas - sometimes even not detectible.*

*Organ-compounds are normally washable. Element contaminants normally bond to the Pt, which is normally not reversible.*

*In general, we limit the quantity of poisons accumulated on the catalyst surface as: 350 mg/m3 (or 10 mg/ft3) of catalyst wash-coat as determined by ICP-OES (Inductively Coupled Plasma – Optical Emissions Spectroscopy) or glow discharge mass spectrophotometry or equivalent.*

Warranty Statement			
<u>Compound</u>	<u>Severity</u>	<u>Effect</u>	<u>Washable?</u>
Siloxanes	Always Bad	Si Fills Up Surface Area	Rarely Washable
Silicone Oil	Si Bad	Si Fills Up Surface Area; Oil Can Mask Surface	Sometimes Washable
Silizane	Si Bad	Si Fills Up Surface Area	Sometimes Washable
Lead	Always Bad	Attracted To Pt - Blocks Access	Never Washable
Mercury	Always Bad	Attracted To Pt - Blocks Access	Never Washable
Arsenic	Always Bad	Attracted To Pt - Blocks Access	Never Washable
Antimony	Always Bad	Attracted To Pt - Blocks Access	Never Washable
Sodium	Often Bad		Often Washable
Potassium	Often Bad		Often Washable
Lithium	Bad		Often Washable
Zinc	Bad		Sometimes Washable
Copper	Can Be Bad	Covers up the Pt	Often Washable
Tin	Can Be Bad	Covers up the Pt	Often Washable
Iron	Can Be Bad	Covers up the Pt	Often Washable
Nickel	Can Be Bad	Covers up the Pt	Often Washable
Chrome	Can Be Bad	Covers up the Pt	Often Washable
Sulfur	Can Be Bad	Chemisorb on Pt; Fill Up Alumina Pores	Sometimes Washable
Silicon	Si Bad	Si Fills Up Surface Area	Rarely Washable
Phosphorous	Often Bad	Can Glaze Over The Surface	Sometimes Washable
Fluorine	Bad	Can Dissolve Surface	Not Washable
Chlorine	Bad	Can Dissolve Surface	Not Washable
Bromine	Bad	Can Dissolve Surface	Not Washable
Iodine	Bad	Can Dissolve Surface	Not Washable
Ash	Bad	Blocks Access; Fills Up Surface Area	Sometimes Washable



## DESCRIPTION OF TURNKEY INSTALLATION

### SAFETY PROVISIONS TO ENSURE A SAFE WORK ENVIRONMENT

<i>General</i>	Cormetech OSHA 200 log is available for review. Cormetech site leadership will ensure all work complies with Work site and OSHA requirements. Safety related issues will be immediately disclosed. Attendance will be taken at the start of each shift to identify employees and subcontractors in the event of an evacuation.
<i>Safety Orientation</i>	Cormetech will ensure and document that all employees and subcontractors attend initial site-specific safety orientation and ensure hard hat decals are in place. Cormetech will review all site safety requirements with its employees and subcontractors.
<i>Pre-Job Safety Briefings</i>	Documented daily start of the shift safety reviews will be completed to promote safety awareness. Initial briefing shall cover at a minimum the following items: hazards associated with the task, safe work procedures, special precautions, and energy source control (LOTO) and personal protective equipment requirements. This review will communicate any safety violations, issues, or near misses to help with safety understanding.
<i>Accident/Incident &amp; Near Miss Reporting</i>	Cormetech will report to site safety coordinator: All accidents/incidents resulting in injuries that require treatment by a physician and damage to Company property will be reported immediately to site. Near misses before the end of the shift that they occurred. Corrective action plan to prevent reoccurrence within 24-hours.
<i>Safety Inspections</i>	Complete <u>daily</u> inspections on: scaffolding, fall protection harnesses, lanyards, rigging, hand tool tie-offs
<i>Injury Illness Control/Personal Protective Equipment</i>	Suitable PPE per OSHA standard shall be in use at all times when in the work area- at a minimum safety glasses, hard hat, and safety shoes.
<i>First Aid</i>	Cormetech or its sub-contractor will have basic first aid available on-site. Cormetech will comply with Work site for emergency first aid, i.e., contact Control Room who will dial 911.
<i>Rescue Contingency</i>	Cormetech will partner with site's Rescue Contingency Plan to define the process in the event of a serious injury. Cormetech will investigate local Emergency Support options for inclusion into our planning, e.g. 911, hospital proximity, etc.
<i>Tagging (Energy Source Control)</i>	Work site will perform all LOTO actions to isolate energy sources. Cormetech and its subcontractors will "sign on" to Work site's LOTO during work period and comply will all site regulations.
<i>Permits</i>	Cormetech or its subcontractor will obtain daily hot work permits through Work site. Cormetech and its subcontractors will comply with all confined space work precautions.
<i>Personnel exposed to &gt;220 Volts</i>	Cormetech employees and subcontractors will wear flame resistance or 100% natural fiber clothing.
<i>Ground Assurance Program</i>	All 110V electrical circuits will be GFI protected.
<i>Training/ Certification Requirements</i>	Cormetech site managers will have OSHA 10 training.



<i>Fitness for Duty</i>	Personnel shall report to Dominion's Premises fit to perform their duties in a reliable and trustworthy manner, with no detectable presence of Banned Substances, prescription or non-prescription drug on their person or property, and free of any impairment from fatigue or any other cause that in any way might adversely affect their ability to safely and competently perform their duties.
<i>Safe Work Area Prep</i>	A safe work area will be maintained: <ul style="list-style-type: none"> <li>• Barricading (red tape) in place when lifting</li> <li>• Hearing protection as required</li> <li>• Fire extinguishers as needed for hot work permits</li> <li>• Good housekeeping practices</li> </ul>
<i>Scaffolding</i>	Documented daily scaffolding inspections shall be performed. Use of a green tag on the scaffold will be used to show daily inspections. Tag will show maximum allowable weight permitted on scaffold. Fall protection is required above four feet. Scaffolding will be OSHA compliant.
<i>Confined Space</i>	Cormetech will comply with OSHA confined space requirements. Continuous atmospheric testing will be completed within the confined space. NOTE: Once roof cover is removed and both access doors are open, SCR reactor will be reclassified as non-permit required confined space.
<i>Respiratory Protection</i>	Dust masks will be available for nuisance dust.
<i>Fitness for Duty</i>	Cormetech has a random drug testing program to insure their employees are fit for duty. Subcontractors may be tested for a reasonable suspicion or if involved in an incident.
<i>Consequences for Safety Violations</i>	Discipline may include immediate termination.
<i>Chemicals</i>	Provide Cormetech SCR Catalyst and associated materials MSDSs before work begins.
<i>Fire Protection</i>	Fire protection will be maintained per Hot Permit requirements associated with welding/cutting equipment.
<i>Demolition/Equipment Removal</i>	Cormetech has completed its review that the SCR catalyst replacement can occur without risk to the structure integrity of the reactor.
<i>Crane/Rigging</i>	Work will comply with all applicable requirements of VA Code Ann. § 59.1-406-414, et. seq., Overhead High Voltage Line Safety Act.
<i>Fall Protection</i>	<u>Fall protection will be enforced at heights over 4 feet with 100% tie-off.</u> All scaffolding will be OSHA compliant to insure safe working surfaces, including working from ladders and all steel erection; and scaffolding erection tasks.
<i>Housekeeping</i>	Cormetech will ensure the work area is maintained in a clean and organized manner consistent with good work practices. Trash will be removed as required and walkways maintained at all times.
<i>Vehicle Access</i>	Park all personal vehicles in site designated areas.
<i>Personal Access</i>	Work site may expel at its discretion any Cormetech employee or subcontractor from its property.
<i>Security</i>	Cormetech will provide a list of names, prior to the start of work, of all individuals supporting the work. Release of Records – Work site at its discretion may conduct background or other investigations of Cormetech employees or subcontractors Duty to Publicize – Cormetech will include these security measures in its project orientation with its employees and subcontractors Subcontractors – Cormetech will incorporate all Work site security measures in its subcontracts and require full compliance



<i>Scheduling of Work</i>	Cormetech will submit and obtain approval of work schedule including daily shift time and length and number of work days per week to complete the project.
<i>Coordination of Work</i>	Cormetech will coordinate work flow and access with Work site.
<i>Responsibility for Work Precautions</i>	Cormetech is responsible for taking precautions to prevent damage or injury to the property, facilities and other suppliers.
<i>Safety</i>	Cormetech must have and document its adherence to established policies and procedures for its employees and subcontractors. These policies and procedures must meet or exceed Work site requirements. Cormetech will take every precaution to maintain a clean and safe working environment.
<i>Hazardous Chemicals</i>	Cormetech will familiarize itself with all materials required to execute the work and apply appropriate PPE.
<i>Cleaning Up</i>	Cormetech will keep its work area, including storage, free from accumulations of waste materials or rubbish. Cormetech will leave the work area in a clean and neat condition.

## ENVIRONMENTAL CONSIDERATIONS

Any waste material generated shall be managed according to federal, state and local regulations as well as company policy.

All waste management activities shall be coordinated through the Plant Environmental Specialist.

Review the MSDS of the new Catalyst and the Old Catalyst Material prior to start of work take all precaution and discuss with the safety and Environmental leader all contingency plans and personnel protective requirements



## SUBCONTRACTOR MANAGEMENT

### VENDOR QUALIFICATIONS

Vendors are qualified based on requirements set forth in Cormetech's Evaluation of Subcontractors Standard Operating Procedure (Document No. 2001). Qualification requirements include a formal quality system, AWS certified welders, site visit including inspection of appropriate metalworking equipment and an evaluation of capacity. Projects are planned and monitored to ensure delivery and quality requirements are met.

Professional Piping Systems, LLC is selected for the scope of work under subcontract to Cormetech, Inc.

### DIVERSITY SUPPLIER PARTICIPATION

Our goal is to obtain the highest quality products and services, at the best cost to the company, in a timely manner and with the best service. Cormetech has set high standards for the quality of the products and services we provide to our customers. We expect the same high standards from our suppliers in the area of quality products and services. Cormetech has experienced successful partnerships with companies that are innovative and support our efforts in creating more cost effective ways of doing business. We look favorably on suppliers that are focused on cost savings and pass those savings along to us.

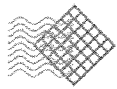
Diversity is an integral part of Cormetech's value system and a critical business initiative. Cormetech's objective is to meet or exceed our customers' initiatives to extend participation opportunities to diverse businesses, where approved and qualified suppliers have not been identified. Consistent with our Commercial Subcontracting Plan, the following resources are used to identify potential sources for solicitation purposes:

- Prior procurement records/ source lists
- Existing company mailing lists
- SBA Dynamic Small Business Search

Further, Cormetech will make every effort to assure fair and equitable opportunity for diverse supplier concerns by doing the following:

- Examine maximum practicable acquisitions to determine the extent of subcontracting opportunities.
- Divide proposed acquisition of supplies and services, into quantities not less than economic production runs, so as to permit bidding on economic quantities less than the total requirement.
- Provide adequate and timely consideration of the potentialities of diverse supplier concerns.
- Allow maximum practicable time for bidding.
- Establish delivery schedules that will encourage small business participation.
- Provide technical assistance as necessary to small business concerns.
- Make drawings and specifications available to small business concerns.
- Use competition restricted to diverse supplier concerns.

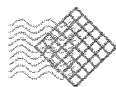
Twenty-four percent (24%) of Cormetech's supplier contracts last year were let to diverse suppliers. Classification is supplier self-certified.



## JUST-IN-TIME DELIVERY & STORAGE

Store catalyst modules inside a building to avoid contact with rain, water, heavy humidity, other liquids, oil and solvents. Moisture may either transport contaminants onto the catalyst surface and cause deactivation, or may weaken the physical strength and cause the catalyst to crack upon drying.

Cormetech contracts with several freight transportation companies giving us optimal flexibility in meeting our customer's particular delivery requirements. Due to its relative close proximity, Cormetech may store the catalyst until the jobsite is ready to install or deliver to a designated Southern warehouse. At that time, Cormetech can 'just-in-time' deliver the catalyst so that on-site storage is not required. This is a significant savings in both handling risk and cost to Southern Company facilities.



# CORMETECH

Conformed Proposal to City of Riverside  
Riverside Energy Resources Units No. 1 and No. 2  
PlanetBids RFQ 1883; February 14, 2019

## CITY OF RIVERSIDE INSURANCE CERTIFICATE



### CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)  
9/12/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> Michael Hogue Arthur J. Gallagher Risk Management Services, Inc. 815 E Britton Rd Oklahoma City OK 73114		<b>CONTACT NAME:</b> Jesse Barrow <b>PHONE (A/C, No, Ext):</b> 405-639-3870 <b>FAX (A/C, No):</b> 405-235-6634 <b>E-MAIL ADDRESS:</b> Jesse_Barrow@ajg.com															
<b>INSURED</b> STEASOR-21 Cormetech, Inc. 11707 Steele Creek Road Charlotte, NC 28273		<b>INSURER(S) AFFORDING COVERAGE</b> <table border="1"> <tr> <th>INSURER</th> <th>NAIC #</th> </tr> <tr> <td>INSURER A: First Liberty Insurance Corporation</td> <td>33588</td> </tr> <tr> <td>INSURER B: Liberty Mutual Fire Insurance Company</td> <td>23035</td> </tr> <tr> <td>INSURER C: Crum &amp; Forster Specialty Insurance Co</td> <td>44520</td> </tr> <tr> <td>INSURER D:</td> <td></td> </tr> <tr> <td>INSURER E:</td> <td></td> </tr> <tr> <td>INSURER F:</td> <td></td> </tr> </table>		INSURER	NAIC #	INSURER A: First Liberty Insurance Corporation	33588	INSURER B: Liberty Mutual Fire Insurance Company	23035	INSURER C: Crum & Forster Specialty Insurance Co	44520	INSURER D:		INSURER E:		INSURER F:	
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INSURER D:																	
INSURER E:																	
INSURER F:																	

**COVERAGES** **CERTIFICATE NUMBER:** 1986132543 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ACORD 101 REV	ACORD 101 REV	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR  GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input checked="" type="checkbox"/> LOC <input type="checkbox"/> OTHER	Y	Y	188841445109058	8/1/2018	8/1/2019	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 500,000 MED EXP (Any one person) \$ 25,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMPOF AGG \$ 2,000,000 \$
B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input checked="" type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS ONLY <input checked="" type="checkbox"/> Hired AUTOS ONLY  <input type="checkbox"/> UMBRELLA LIAB <input type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input type="checkbox"/> RETENTION \$	Y	Y	A82541445109058	8/1/2018	8/1/2019	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ Comp/Coll Ded \$ 1,000 EACH OCCURRENCE \$ AGGREGATE \$ \$
B	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/INSURER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	WC2541445109078	8/1/2018	8/1/2019	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
C	Prof / CPL			PKC107819	10/15/2015	8/1/2019	Each Claim Aggregate Deductible 1,000,000 2,000,000 50,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)  
 Certificate Holder is included as Additional Insured on the General Liability and Auto policies as per forms CG 20 10 04 13 and CA 20 48 10 13 as required by written contract. Waiver of Subrogation applies to certificate holder, as respects to the General Liability policy as per form CG 24 04 05 09 required by written contract.

#### CERTIFICATE HOLDER

City of Riverside Public Utilities  
 Attn: Jim Perez, Utilities Resources Analyst  
 5901 Payton Avenue  
 Riverside CA 92504

#### CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

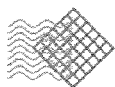
AUTHORIZED REPRESENTATIVE

*David Horton*

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ACORD 25 (2016/03)

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POLICY NUMBER: TB6-641-445109-068

COMMERCIAL GENERAL LIABILITY  
CG 20 10 04 13

**THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.**

## ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS – SCHEDULED PERSON OR ORGANIZATION

This endorsement modifies insurance provided under the following:

### COMMERCIAL GENERAL LIABILITY COVERAGE PART

**A. Section II – Who Is An Insured** is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by:

1. Your acts or omissions; or
2. The acts or omissions of those acting on your behalf;

in the performance of your ongoing operations for the additional insured(s) at the location(s) designated above.

However:

1. The insurance afforded to such additional insured only applies to the extent permitted by law; and
2. If coverage provided to the additional insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

**B.** With respect to the insurance afforded to these additional insureds, the following additional exclusions apply:

This insurance does not apply to "bodily injury" or "property damage" occurring after:

1. All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the location of the covered operations has been completed; or

2. That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.

**C.** With respect to the insurance afforded to these additional insureds, the following is added to **Section III – Limits Of Insurance:**

If coverage provided to the additional insured is required by a contract or agreement, the most we will pay on behalf of the additional insured is the amount of insurance:

1. Required by the contract or agreement; or
2. Available under the applicable Limits of Insurance shown in the Declarations;

whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

### SCHEDULE

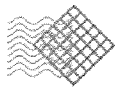
**Name Of Additional Insured Person(s)  
Or Organization(s):**

**Location(s) Of Covered Operations**

All persons or organizations with whom you have entered into a written contract or agreement, prior to an "occurrence" or offense, to provide additional insured status.

All locations as required by a written contract or agreement entered into prior to an "occurrence" or offense.

Information required to complete this Schedule, if not shown above, will be shown in the Declarations.



POLICY NUMBER: TB6-641-445109-068

COMMERCIAL GENERAL LIABILITY  
CG 20 37 04 13

**THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.**

## **ADDITIONAL INSURED – OWNERS, LESSEES OR CONTRACTORS – COMPLETED OPERATIONS**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART  
PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART

**A. Section II – Who Is An Insured** is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury" or "property damage" caused, in whole or in part, by "your work" at the location designated and described in the Schedule of this endorsement performed for that additional insured and included in the "products-completed operations hazard".

However:

1. The insurance afforded to such additional insured only applies to the extent permitted by law; and
2. If coverage provided to the additional insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

**B. With respect to the insurance afforded to these additional insureds, the following is added to Section III – Limits Of Insurance:**

If coverage provided to the additional insured is required by a contract or agreement, the most we will pay on behalf of the additional insured is the amount of insurance:

1. Required by the contract or agreement; or
2. Available under the applicable Limits of Insurance shown in the Declarations;

whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

### **SCHEDULE**

**Name Of Additional Insured Person(s)  
Or Organization(s):**

All persons or organizations with whom you have entered into a written contract or agreement, prior to an "occurrence" or offense, to provide additional insured status.

**Location And Description Of Completed Operations**

All locations as required by a written contract or agreement entered into prior to an "occurrence" or offense.

Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

POLICY NUMBER: TB6-641-445109-068

COMMERCIAL GENERAL LIABILITY  
CG 24 04 05 09

## WAIVER OF TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART  
PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART

The following is added to Paragraph 8. Transfer Of  
Rights Of Recovery Against Others To Us of  
Section IV – Conditions:

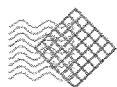
We waive any right of recovery we may have against  
the person or organization shown in the Schedule  
below because of payments we make for injury or  
damage arising out of your ongoing operations or  
"your work" done under a contract with that person  
or organization and included in the "products-  
completed operations hazard". This waiver applies  
only to the person or organization shown in the  
Schedule below.

### SCHEDULE

Name Of Person Or Organization:

Where required by contract or written agreement prior to loss and allowed by law.

Information required to complete this Schedule, if not shown above, will be shown in the Declarations.



POLICY NUMBER: AS2-641-445109-058

COMMERCIAL AUTO  
CA 20 01 10 13**THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.****LESSOR - ADDITIONAL INSURED AND LOSS PAYEE**

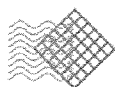
This endorsement modifies insurance provided under the following:

AUTO DEALERS COVERAGE FORM  
BUSINESS AUTO COVERAGE FORM  
MOTOR CARRIER COVERAGE FORM

With respect to coverage provided by this endorsement, the provisions of the Coverage Form apply unless modified by the endorsement.

**SCHEDULE**

<b>Insurance Company:</b>	
<b>Policy Number:</b>	<b>Effective Date:</b>
<b>Expiration Date:</b>	
<b>Named Insured:</b>	
<b>Address:</b>	
<b>Additional Insured (Lessor):</b>	<b>SEE ATTACHED SCHEDULE</b>
<b>Address:</b>	
<b>Designation Or Description Of "Leased Autos":</b>	<b>SEE ATTACHED SCHEDULE</b>



Coverages	Limit Of Insurance
Covered Autos Liability	\$ Each "Accident"
Comprehensive	Actual Cash Value Or Cost Of Repair, Whichever Is Less, Minus \$ Deductible For Each Covered "Leased Auto"
Collision	Actual Cash Value Or Cost Of Repair, Whichever Is Less, Minus \$ Deductible For Each Covered "Leased Auto"
Specified Causes Of Loss	Actual Cash Value Or Cost Of Repair, Whichever Is Less, Minus \$ Deductible For Each Covered "Leased Auto"
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.	

## A. Coverage

- Any "leased auto" designated or described in the Schedule will be considered a covered "auto" you own and not a covered "auto" you hire or borrow.
- For a "leased auto" designated or described in the Schedule, the **Who Is An Insured** provision under **Covered Autos Liability Coverage** is changed to include as an "insured" the lessor named in the Schedule. However, the lessor is an "insured" only for "bodily injury" or "property damage" resulting from the acts or omissions by:
  - You;
  - Any of your "employees" or agents; or
  - Any person, except the lessor or any "employee" or agent of the lessor, operating a "leased auto" with the permission of any of the above.
- The coverages provided under this endorsement apply to any "leased auto" described in the Schedule until the expiration date shown in the Schedule, or when the lessor or his or her agent takes possession of the "leased auto", whichever occurs first.

## B. Loss Payable Clause

- We will pay, as interest may appear, you and the lessor named in this endorsement for "loss" to a "leased auto".

- The insurance covers the interest of the lessor unless the "loss" results from fraudulent acts or omissions on your part.
- If we make any payment to the lessor, we will obtain his or her rights against any other party.

## C. Cancellation

- If we cancel the policy, we will mail notice to the lessor in accordance with the Cancellation Common Policy Condition.
- If you cancel the policy, we will mail notice to the lessor.
- Cancellation ends this agreement.

- The lessor is not liable for payment of your premiums.

## E. Additional Definition

As used in this endorsement:

"Leased auto" means an "auto" leased or rented to you, including any substitute, replacement or extra "auto" needed to meet seasonal or other needs, under a leasing or rental agreement that requires you to provide direct primary insurance for the lessor.



## TERMS AND CONDITIONS

AS AGREED UPON BETWEEN CORMETECH, INC. AND CITY OF RIVERSIDE, 2012

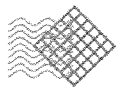
### Cormetech, Inc. Technical Terms and Conditions

#### *Warranty Conditions*

1. Unit operating conditions shall be within the limits of design cases specified in Catalyst Quotation.
2. The catalysts must be handled, operated, and maintained according to Cormetech instruction.
3. Cormetech maintains warranty protection as long as normal furnace start-up and shut-down procedures are followed and no moisture other than from flue gas or ambient air is present. The allowed start-up and shut-down temperature gradient for the catalyst is 10°C/min below and 100°C/min above the flue gas dew point.
4. Catalyst has been designed to accommodate profile maldistributions, based on a Normal Distribution, per SCR Catalyst Quotation.
5. Cormetech is not responsible for catalyst deterioration caused by reagent drainage or other liquid contact to catalyst.
6. Suitable means must be employed, if needed, to clean catalyst masked or plugged by firing of particulate producing fuel. Customer will inspect visually at shutdowns and clean, as needed.
7. Access must be provided to Cormetech for visual inspection and catalyst sampling. Cormetech reserves the right to review the Unit's operating data at any time during the warranty period.
8. Customer must provide catalyst samples to Cormetech, if requested during the warranty period, in order to maintain warranties. Cormetech will provide an advance written request of a need to obtain catalyst samples, construction and sampling method that permits ease of extraction and replacement of samples, and schedule coordination for the operating plant's convenience.
9. Customer will provide a copy of all procedures and methods of analysis to be employed in catalyst evaluation for Acceptance and anytime throughout the warranty period.

#### *Warranty Fulfillment*

1. Cormetech's warranties are fulfilled at the end of the period stated in Catalyst Quotation if the results of on-site tests indicates that the performance values, shown in Catalyst Quotation, are met.
2. If the results of on-site tests during the warranty period indicates that the warranted values are not being met, Customer will conduct an on-site investigation to determine the cause of non-performance. If the catalyst is suspect, Cormetech will conduct laboratory tests, according to the conditions specified in Catalyst Quotation, to verify the catalyst performance.
3. If the results of the laboratory tests indicate that the warranted values are being met, Cormetech's warranties will be deemed in fulfillment at this time and Customer will continue their investigation to determine the cause of non-fulfillment. Customer will compensate Cormetech for the cost of laboratory evaluation.
4. If the results of the laboratory tests indicate that the warranty values are not being met, Cormetech will, at its option, repair, replace, or add catalyst at its cost to meet the required performance values. Cormetech will absorb cost of laboratory evaluation.

**General Terms and Conditions of Sale****1. DEFINITIONS:**

"Buyer" means the firm or company which places the order and purchases the Goods from Seller. "Seller" means Cormetech, Inc.

"Goods" means the SCR Catalyst to be purchased by the Buyer.

"Order" means the purchasing order placed by the Buyer for the supply of the Goods.

"Specifications" means Seller's written technical description of the Goods purchased pursuant to the Order therefor and Seller's acceptance thereof.

"Owner" means the person, firm or company to whom the Buyer furnishes the plant including the Goods supplied by the Seller.

**2. CONTRACT:**

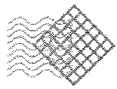
The contract for the purchase and sale of Goods shall be deemed to have been entered into by and between the Buyer and the Seller when, upon receipt of the Buyer's Order for such Goods, the Seller sends an acceptance in writing, within the time limit for such acceptance specified in such Order, executed by the duly authorized representative of Seller. Neither the Buyer nor the Seller shall be bound by any variation, waiver of, or addition to these general terms and conditions unless otherwise agreed by both parties in a writing executed by their duly authorized representatives. Except as otherwise provided in an express written agreement, these general terms and conditions shall govern in the event of any conflict with any terms or conditions proposed by the Seller or Buyer whether or not contained in any order or acceptance, or applicable in previous transactions, practice or course of dealings.

**3. LIAISON PERSONNEL:**

The Seller, immediately upon receiving Buyer's Order for Goods, may appoint an appropriate person for the performance of Seller's obligation to Buyer with respect to the Goods, to whom all communication thereon shall be directed.

**4. DELIVERY:**

The method of packing of the Goods shall be in accordance with the agreement of the Buyer and Seller and if no agreement has been reached, the Seller shall take all reasonable steps to prevent damage to or deterioration of the Goods in transit to their destination as specified in the accepted order. The purchase price for Goods sold pursuant to an accepted purchase order shall include the cost of packing as mentioned above.

**5. WARRANTIES, QUALITY AND REMEDY:**

Seller hereby warrants to Buyer that at the time of delivery, the Goods and Services sold to Buyer will conform to the written specifications set forth in Catalyst Technical Terms and Conditions to acceptable quality levels normally supplied by Seller in connection with the sales of said Goods and Services.

5.1 Materials and Workmanship: Goods and Services provided are warranted to conform to the written Specifications for a period of twelve (12) months from installation acceptance by Buyer. Seller will, solely at its option, repair or replace Goods, and/or re-perform Services which fail to meet the Terms and Conditions of this limited warranty.

5.2 Performance Guarantees: Seller further warrants that the performance of the Goods will, under the conditions specified in Catalyst Technical Terms and Conditions for the period set forth therein meet the performance criteria under the conditions specified therein. Defects that do not materially impact performance of the Goods, and normal wear and tear of the equipment from use, shall not be considered a failure under Performance Guarantee. Defects that are discovered and deemed likely to cause material impacts on performance as a result of normal operation during the remaining guarantee period shall be remedied by Seller under warranty. Seller will, solely at its option, repair or replace Goods found materially defective, and/or re-perform Services which fail to meet the Terms and Conditions of this limited warranty.

Verification of such performance guarantee will be accomplished as specified in Catalyst Technical Terms and Conditions, through the use of laboratory tests.

In the event Goods are stored and handled between the time of delivery and installation, Buyer shall provide adequate and appropriate facilities for storage of the Goods. Goods shall be handled according to Seller's Operations and Maintenance Manual.

THE FOREGOING WARRANTY AND THE WARRANTY SET FORTH IN SECTION (15) ARE IN LIEU OF ALL OF THE WARRANTIES EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

**6. SPECIFICATIONS:**

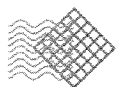
The Goods sold hereunder shall comply with the written specifications set forth in Catalyst Technical Terms and Conditions. The performance of such Goods will vary in accordance with individual specifications, operation, and maintenance of the systems in which they are installed. Buyer has the sole responsibility for the completeness and accuracy of information. Seller will rely exclusively on such information to make recommendations on the type and volume of Goods to be used in Owner's facility.

**7. MODIFICATION IN SPECIFICATIONS:**

The specifications may be modified and/or changed at any time provided that both the parties agree in writing. Such agreement may include reasonable adjustments of the price, time of delivery of the Goods and other terms before such modifications and/or changes are carried out.

**8. DRAWINGS:**

Drawings, such as, drawings for approval, drawings for installation, drawings showing the finished conditions of the Goods, instruction manuals, etc., shall be supplied by the Seller to the Buyer strictly in accordance with and by the time instructed in the Specification or in the accepted order.

**9. INSPECTION AND TEST AT SELLER'S WORKS**

Upon reasonable notice and at reasonable times, the Buyer shall have access to the office of the Seller or, subject to written consent of such supplier, the office and manufacturing operations of Seller's supplier for expedition of manufacturing or inspection of the Goods in the course of a normal working day during the period from the date of the Order to the date of shipment of the Goods. If such inspection shall be done at the factory of Seller's supplier, the Seller shall also inform the Buyer of the details of such visit in advance. Buyer shall inspect all Goods within thirty (30) days of delivery of such Goods and immediately report to Seller in writing any claims for breach of warranty set forth in Section (5) above. All Goods which remain uninspected after such thirty (30) days shall be deemed accepted by Buyer. In the event that the Goods are rightfully rejected at the time of inspection for failure to conform to the provisions of Section (5) above, the Seller shall, solely at the Seller's option, repair or replace such Goods.

**10. PRODUCTION SCHEDULE:**

When requested, the Seller will provide the Buyer with the production schedule setting forth the estimated dates for the issuance schedule of drawings, order of material, fabrication schedule, inspection schedule, if any, for the Goods purchased pursuant to the acceptance order, and during the contractual period,

keep the Buyer informed monthly of actual progress in providing the Goods.

In case there is some unexpected factor or occurrence which prevents normal progress of production or manufacturing, the Seller shall inform the Buyer promptly.

**11. SHIPPING INSTRUCTION:**

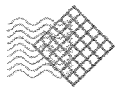
The Goods subject to Buyer's Order shall be sold FOB Jobsite, unless otherwise indicated, and the Buyer or Seller on Buyer's behalf pursuant to Buyer's instructions will book and arrange appropriate transportation from such site. The Seller shall provide the following information regarding such Goods.

- a. Net weight, gross weight, freight tons
- b. Measurement of each packing or
- parcel c. Number of packages
- d. Name of loading port
- e. Date of cargo readiness

**12. LIMITATION OF LIABILITY:**

The liability of the Seller, its supplier, their agents, employees, subcontractors and sub-suppliers with respect to any and all claims arising out of the performance or non-performance of obligations in connection with the design, manufacture, sale, delivery, storage, erection or use of the Goods or the rendition of other services in connection therewith, whether based on contract, warranty, tort (including negligence), strict liability or otherwise, shall not exceed in the aggregate the purchase price for the Goods and shall in no event include: damages for loss of profits or revenue or the loss of use of either; loss by reason of plant shutdown or inability to operate at rated capacity; increased expense of operation of plant or equipment; increased costs of purchasing or providing Goods, equipment, materials, supplies or services; costs of replacement power or capital; claims of Owner's customers; inventory or use charges; or any other incidental or consequential damages of any nature.

This limitation of liability shall prevail over any conflicting or inconsistent provisions contained in any of the documents comprising the contract for the Goods, except to the extent such conflicting or inconsistent provisions further restrict the Seller's liability. This limitation shall not apply to claims arising out of or based upon claims of personal injury or property damage.

**13. PRICE AND PAYMENT:**

All payments shall be made within thirty (30) days after the presentation of the invoice therefor, unless otherwise indicated. Seller will meet delivery schedule required by contract. In the event Buyer delays requested delivery, terms of payment shall commence per original schedule. Seller shall notify Buyer of all resultant fees and requirements due to delay, including but not limited to, handling, storage, and truck cancellation fees. Buyer shall be invoiced for said fees upon shipment. Payments received after date specified on invoice will be assessed a monthly finance charge (12% per annum).

**14. FORCE MAJEURE:**

Force majeure shall mean unavoidable causes beyond the control of the Seller, including but not limited to, acts of God, war (declared or undeclared), acts of governmental authorities, riot, revolution, civil commotion, fires, strikes (and other labor disputes, sabotage), or epidemic, and other similar matters beyond the reasonable control of a party. Should the causes of force majeure prevent the total or partial performance required concerning the purchase of Goods, the party claiming force majeure shall promptly advise the other party at the beginning and end of such force majeure and furnish the other party a written notice identifying the nature of the circumstances of force majeure promptly. In cases of force majeure described above, there shall be consultation between the parties to discuss the effect on the contractual obligations of both parties. For delays and/or non-performance of the obligations due to force majeure, the affected party shall be entitled to an extension of time equal to that of the delay plus such additional time as is reasonably necessary to resume performance of its obligations.

**15. PATENTS:**

The Seller warrants freedom from patent infringement on those Goods sold under an accepted order when such Goods are used for the purposes normally intended. Purchase of this product from Cormetech, Inc. includes a license to use this product in the practice of the method claimed in U.S. Patent 4,358,428.

**16. ASSIGNMENT:**

Neither the contract nor any part of it shall be assigned or transferred to any third party without the other parties' prior written consent where such consent shall not be unreasonably withheld.

**17. TAXES:**

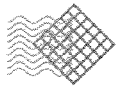
Any applicable sales, use, excise or other tax shall not be included in Seller's quoted price for Goods.

**18. BACKCHARGE:**

Seller is not liable, whether by back charge or otherwise, for the cost of work performed or material or equipment furnished by the Buyer or any third parties unless such work and the costs thereof have been approved in writing by an authorized representative of Seller.

**19. NON-DISCLOSURE:**

Data, drawings, specifications, or other technical information furnished directly or indirectly, in writing or otherwise, to Seller by Purchaser or to Purchaser from Seller pursuant to this order shall in no event become the property of the receiving party and shall be used only in fulfilling the obligations imposed by this order and shall not be duplicated or disclosed to others or used in whole or in part for any other purpose. Such furnishing of data, drawings, specification, or other technical information shall not be construed as granting any rights whatsoever, express or implied, under patents or privileges of the disclosing party.

**20. TERMINATION:**

Upon notice, Seller will take all reasonable measures to cease production in-process and to minimize the cost of goods and services procured for fulfillment against this contract. It is recognized that the Goods and Services contracted herein are of custom design and manufacture, the value of which is not reasonably expected to be recoverable by the Seller in the event of termination. Therefore, upon termination, Seller will submit to Buyer an accounting of all Goods and Services directly allocated to fulfillment of this contract including but not limited to finished Goods, Goods-in-process, non-cancelable subcontracts, and custom dies. Forced disruption of manufacturing in process may result in additional expense which is the sole responsibility of Buyer. It is expected that raw materials may be purchased and production proceed against the requirements of any or all of the defined scope of contract at any time following contract award by Buyer. Seller will keep Buyer informed of progress against contract.

**21. INDEMNIFICATION**

Except as to the sole negligence or willful misconduct of the Buyer, Seller shall defend, indemnify and hold the Buyer, its officers and employees, harmless from any and all loss, damage, claim for damage, liability, expense or cost, including attorney's fees, based in personal injury or property damage, which arises out of or is in any way connected with the Seller's gross negligence, willful misconduct and intentional acts under this agreement. The parties expressly agree that any payment, attorney's fee, costs or expense Buyer incurs or makes to or on behalf of an injured employee under the Buyer's self-administered workers' compensation program is included as a loss, expense or cost for the purposes of this article, to the extent lawful, and that this article shall survive the expiration or early termination of the agreement.

**22. INSURANCE**

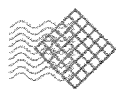
22.1 General Provisions. Prior to commencement of the agreement, Seller shall provide satisfactory evidence of, and shall thereafter maintain during the term of this agreement, such insurance policies and coverages in the types, limits, forms and ratings required herein. The rating and required insurance policies and coverages may be modified in writing by the Buyer unless such modification is prohibited by law.

22.1.1 Limitations. These minimum amounts of coverage shall not constitute any limitation or cap on Seller's indemnification obligations herein.

22.1.2 Ratings. Any insurance policy or coverage provided by Seller or subcontractors as required by this agreement shall be deemed inadequate and a material breach of this agreement, unless such policy or coverage is issued by insurance companies authorized to transact insurance business in the State of California with a policy holder's rating of A or higher and a Financial Class of VII or higher.

22.1.3 Cancellation. The policies shall not be canceled unless thirty (30) days prior written notification of intended cancellation has been given to Buyer by certified or registered mail, postage prepaid.

22.2 Workers' Compensation Insurance. By executing and/or acknowledging this agreement, Seller certifies that Seller is aware of and will comply with Section 3700 of the Labor Code of the State of California requiring every employer to be insured against liability for workers' compensation, or to undertake self-insurance before commencing any of the work. Seller shall carry the insurance or provide for self-insurance required by California law to protect said Seller from claims under the Workers' Compensation Act. Prior to commencement of the Services, Seller shall file with Buyer either (1) a certificate of insurance showing that such insurance is in effect, or that Seller is self-insured for such coverage, or (2) a certified statement that Seller has no employees, and acknowledging that if Seller does employ any person, the necessary certificate of insurance will immediately be filed with Buyer. Any certificate filed with Buyer shall provide that Buyer will be given ten (10) days prior written notice before modification or cancellation thereof.



**22.3 Commercial General Liability and Automobile Insurance.** Prior to commencement of the agreement, Seller shall obtain, and shall thereafter maintain during the term of this Agreement, commercial general liability insurance and automobile liability insurance as required to insure Seller against damages for personal injury, including accidental death, as well as from claims for property damage, which may arise from or which may concern operations by anyone directly or indirectly employed by, connected with, or acting for or on behalf of Seller. The Buyer, and its officers, employees and agents, shall be named as additional insureds under the Consultant's insurance policies.

22.3.1 Seller's commercial general liability insurance policy shall cover both bodily injury (including death) and property damage (including, but not limited to, premises operations liability, products-completed operations liability, independent Seller's liability, personal injury liability, and contractual liability) in an amount not less than \$1,000,000 per occurrence and a general aggregate limit in the amount of not less than \$2,000,000.

22.3.2 Seller's automobile liability policy shall cover both bodily injury and property damage in an amount not less than \$1,000,000 per occurrence and an aggregate limit of not less than \$1,000,000. All of Consultant's automobile and/or commercial general liability insurance policies shall cover all vehicles used in connection with Seller's performance of this agreement, which vehicles shall include, but are not limited to, Seller owned vehicles, Seller leased vehicles, Seller's employee vehicles, non-Seller owned vehicles and hired vehicles.

22.3.3 Prior to commencement of the agreement, copies of insurance policies or original certificates and additional insured endorsements evidencing the coverage required by this agreement, for both commercial general and automobile liability insurance, shall be filed with Buyer and shall include the Buyer and its officers, employees and agents, as additional insureds. Said policies shall be in the usual form of commercial general and automobile liability insurance policies, but shall include the following provisions:

"It is agreed that the City of Riverside, and its officers, employees and agents, are added as additional insureds under this policy, solely for services performed by and on behalf of the named insured for the City of Riverside."

22.3.4 The insurance policy or policies shall also comply with the following provisions:

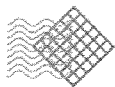
a. The policy shall be endorsed to waive any right of subrogation against the Buyer and its sub-consultants, employees, officers and agents for services performed under this agreement.

b. If the policy is written on a claims made basis, the certificate should so specify and the policy must continue in force for one year after completion of the services. The retroactive date of coverage must also be listed.

c. The policy shall specify that the insurance provided by Seller will be considered primary and not contributory to any other insurance available to the City.

**22.4 Errors and Omissions Insurance.** Prior to commencement of the agreement, Seller shall obtain, and shall thereafter maintain during the term of this agreement, errors and omissions professional liability insurance in the minimum amount of \$1,000,000 to protect the Buyer from claims resulting from the Seller's activities.

IN WITNESS WHEREOF, City and Consultant have caused this Agreement to be duly executed the day and year first above written.

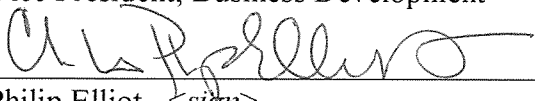


SIGNATURE PAGE

CITY OF RIVERSIDE, a California  
charter city and municipal corporation  
a California corporation

CORMETECH, INC.  
A Delaware Corporation

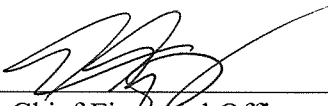
By: \_\_\_\_\_  
City Manager

By: Philip Elliot  
Vice President, Business Development  
  
Philip Elliot <sign>

Attest: \_\_\_\_\_  
City Clerk

2/14/2019  
Date <enter>

Certified as to Availability of Funds:

By:   
Chief Financial Officer

By: David Morris  
Chief Financial Officer

Approved as to Form:

David Morris  
David Morris <sign>

By: Susan Wilson  
Assistant City Attorney

2/14/19  
Date <enter>



# RFP AWARD RECOMMENDATION

CITY OF RIVERSIDE  
Finance Department

DATE SUBMITTED: March 25, 2019

RFP NO.  1883	RFP TITLE  CO Oxidation Catalyst Replacement on Riverside Energy Resource Units No. 1 and No. 2	DEPARTMENT/DIVISION  Public Utilities
		DATE RFP OPENED  12/18/18
PROPOSALS RECEIVED (4)		INVITATIONS ISSUED (Online)

PROPOSERS

CITY

ARB Inc.  
Cormetech Inc.  
Sisu Energy & Environmental  
TMP Refining

Lake Forest, CA  
Durham, NC  
Tulsa, OK  
Malvern, PA

RFP DESCRIPTION: The vendor will provided and install an Englehard/BASF Platinum-Alumina 82 cubic Feet CO Oxidation Catalyst on Riverside Energy Resource Center (RERC) Unit No. 1 and No. 2.

RFP Recommended For Award (Includes Sales Tax) ☐ 10% Surety Included ☒ Contract  
Lowest Responsible Proposer ☐ 10% Surety not required ☒ Purchase Order

Amount of Award

Cormetech Inc.

\$561,195.00

COMMENTS:

The Public Utilities Department has evaluated all proposals received and will be submitting a report. The Purchasing Division concurs with this recommendation and recommends award be made to the best overall solution based on proposal evaluations and subsequent interviews.

Submitted by:

Purchasing Manager



Date 2/8/19