

Appendix C-3, Engineer Procure Construct (EPC) Contract Bids

Information Required in Bid Proposals

PacifiCorp will only entertain EPC contract bids on the two sites being offered as part of the RFP. In general, PacifiCorp expects Bidders to provide any information that could impact the cost, reliability, dispatch frequency, or output capability of a resource. PacifiCorp believes these resources attributes largely consist, but may not be limited to, the following information categories:

Impact of Temperature on Output – If Project output will vary with ambient conditions, capacity, and any associated performance impact, should be stated in terms of conditions expected during a summer day, with ambient air conditions of 95°F and 20% relative humidity, and a winter day with ambient conditions of 20°F and 75% relative humidity. The Bidder will complete Table C-3.1 showing output at specific ambient conditions, with and without duct firing and/or power augmentation. To the extent pricing, capacity and/or availability vary based on specific characteristics of the facility, the Bidder shall clearly identify those relationships in tabular form.

Impact of Other Factors on Output – PacifiCorp prefers generation facilities designed, permitted, and operated so that, to the extent practicable, the proposed capacity and any related energy provided to PacifiCorp is not restricted by:

- Environmental permits or other environmental limitation or environmental forfeitures
- Hours of operation
- Any other factor relevant to the technology (noise, agreements with neighbors, etc.
- Bidders shall describe in detail any such limitations in their Proposal
- Ability to provide additional capacity over the net capable rating
- Non-environmental or technology factors that could encumber the facility
- Water availability

Engineer Procure Construct (EPC) Contract Option – Bidders may propose a fixed-price, lump-sum EPC contract option, but only for the two PacifiCorp sites currently being offered. Such proposals must include the following information in addition to any technical information:

- Markup of Asset Purchase and Sale Agreement (APSA), including appendices. Quantity and impact of proposed changes are a nonprice factor in selecting Bidders for further discussions.
- Amounts and dates of **milestone-based** payments, including milestone descriptions, required of PacifiCorp.

- Proposed facilities will only contain OEM-certified “OEM-certified new major equipment”. This being defined as OEM equipment that has not been previously installed or operated and has the same warranties and guarantees as equipment delivered directly from the OEM’s production line, and all reliability and design TILS and/or Service Bulletins have been implemented.

Siting – Bidders are responsible for all construction and coordination with the applicable service provider(s) for any new electrical transmission and fuel transportation facilities required in response to this RFP.

Facility Information – To the extent applicable, the Bidder should clarify the following information with respect to any proposed facility:

- Proposed air emissions (all criteria pollutants and air toxics), description of emission controls, description of plan to acquire any required emission offsets, and description of criteria used to determine requirement.
- Proposed site plans, layouts, elevations and other aspects of the facility.
- Types of transportation access required.

Proposal Format – As mentioned above, Bidders are being asked to submit a “blinded” bid in such a format that the identity of the Bidder is not apparent. In doing so, PacifiCorp is requesting that Bidders confirm to the following format for presenting their bid information:

Section 1 – Executive Summary of Proposal – The Executive Summary section should provide an overall description of the proposal and its key benefits and advantages to PacifiCorp. It should include a general description of the technology, location, and business arrangement for the bid. Bidder shall state the period under which the terms and conditions of their Proposal will remain effective.

Section 2 – Resource Description – This section should include a description of the resource, including:

- Type of generation equipment and description
- Manufacturers of major equipment
- Type of heat rejection equipment (cooling towers, ponds, ACC, etc.)
- Source of process and/or cooling water
- Wastewater disposal plan
- Description of financing plan
- Plan for site control

- Site layout description
- Description of technology and configuration
- Net Capacity ratings and net heat rates at ambient conditions as specified in Table C-3.1.
- Description of emission control technology, including manufacturer
- Project schedule based on latest Notice to Proceed Date necessary for a June 1, 2009 Substantial Completion Date, listing latest, tasks and milestones with estimated completion dates. Bidders shall also complete Exhibit 1 to document some of the technical aspects of their Proposal.
- Startup Time for Cold, Warm and Hot Starts. A Cold Start is defined as a shutdown of the generating equipment for 48 hours or longer. A Warm Start is defined as a startup within 48 hours of a shutdown. A Hot Start is defined as a start within 8 hours of a shutdown. Bidder should provide its own definitions if different. For this information Startup Times requested may be for the time to minimum sustainable load and time to full load, without duct firing or power augmentation.

Section 3 – Pricing Proposal – Describe in detail the pricing proposal, including the use of any index, escalation factors, or other costs to PacifiCorp. Proposed dates, amounts, and detailed milestone descriptions justifying payments are required.

Section 4 – Transmission – Not Applicable to this Appendix.

Section 5 – Environmental and Siting – Under the EPC proposal, PacifiCorp is exclusively and entirely responsible for meeting and satisfying all federal, state, and local permits, licenses, approvals and/or variances that are required to physical construction and operation of the Facility in accordance with any EPC transaction.

Section 6 – Other Information –

Fuel – Not Applicable to this Appendix

Dispatchability – Not Applicable to this Appendix.

Technical Data – Technical data as requested Exhibit 1 of this Appendix.

Section 7 – Contract Terms – Bidder shall provide a comprehensive listing/description of all modifications to the APSA terms and conditions, including the appendices, which the Bidder would seek during contract negotiations.

These may include, but are not limited to:

- Descriptions of items to be provided by the Owner, including a schedule of timing for the provision of these items and impact on Bidder of any delays.
- Land requirements for construction of the facility, including laydown areas
- Laydown plan for construction.
- Commissioning & Startup Plan with Owner's requirements.

EXHIBIT 1

TECHNICAL DATA

Site Location _____

Net Capacity at 95°F, 20% Relative Humidity, and at Site Conditions is _____ MW

Site Elevation: _____ Feet

Maximum water consumption is _____ gallons per minute.

Expected water consumption is _____ acre-feet per year.

Minimum Sustainable Load at above conditions _____ MW

Automatic Generation Control (AGC) capable Yes ____ No _____. If yes than the AGC range at above conditions is _____ MW to _____ MW.

Maximum number of starts per day is _____, per month _____, per year _____.

Maximum continuous period that the facility can operate steam-for-power-augmentation at full load without depleting the demineralized water system is _____ hours. This assumes the demineralized water system is operating at rated capacity.

Weighted Average Raw Water Consumption is _____ gallons per minute.

Time to bring the facility on line, in minutes (specify if this is to synchronization or sustainable minimum load) _____

(Bidder to define "cold", "warm", and "hot starts", if not as stated above)

Min/Sust.

Full Load

For Cold Start: _____

For Warm Start: _____

For Hot Start: _____

Minimum time on-line (hours from start initiation to stop initiation) _____

Minimum time off-line (hours from stop initiation to start initiation) _____

Normal Ramp Rate within operating range: (MW/Min.) Increase: _____ Decrease: _____

Emergency Ramp Rate: (MW/Minute) Increase: _____ Decrease: _____

Time to transfer from combined cycle to duct firing _____ min.

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Duct Firing Ramp Rate: (MW/Min.) Increase: _____ Decrease: _____

Time to transfer from combined cycle to power augmentation _____ min.

Power Augmentation Ramp Rate: (MW/Min.) Increase: _____ Decrease: _____

Anticipates Number of Starts per CT to reach Commercial Operation (CO): _____

Anticipated quantity of natural gas consumed through CO: _____ dth.

Additional Information

Bidder to provide partial load performance curves, including minimum load, showing heat rate and load at varying temperatures.

To the extent that pricing and/or availability vary based on specific characteristics of the facility and/or ambient conditions, the Bidder shall clearly identify that relationship in tabular form, including the relationship between temperature and capacity over the local ambient range inclusive of -10°F to 105°F. Bidder to fill out Table B-3.1 below:

Table C-3.1

Temp in °F	% RH	Evap or Chiller	Duct Burners	Power Aug.	Heat Rate	Net Output	Min. Load
-10	100						
-10	100		On				NA
0	100						
10	100						
15	84						
20*	86						
20	86		On				NA
20	86			On			NA
20*	86		On	On			NA
30	75						
40	55						
50	49						
52	46						
52	46	On					
60	40	On					
60	40		On				NA
60	40			On			NA
60	40		On	On			NA
70	33	On					
75*	29	On					
75	29		On				NA
75	29			On			NA
75*	29		On	On			NA
80	25	On					
90	16	On					
95*	15	On					
95	15		On				NA
95	15			On			NA
95*	15		On	On			NA
105	11						
105	11	On	On	On			NA

* Indicates Water Balance Sheet Required