Appendix G-1

Preliminary Due Diligence List   
(Existing CCGT Resources)

For

2012  
Request For Proposals (RFP)   
For

Long-Term  
 Supply-Side Resources

Entergy Services, Inc.

August 28, 2012

**APPENDIX G-1**

**Preliminary Due Diligence List (Existing CCGT Resources)**

As part of the RFP, ESI has posted this Appendix G-1, which contains a list of preliminary due diligence requests. ESI will require Bidders who intend to submit a proposal(s) originating from a CCGT resource to provide a comprehensive response to each question accordingly and as applicable. Failure to provide such a response could negatively affect a proposal’s overall viability ranking.

**Bidders proposing should respond to each request below by 5:00 pm CPT on the Required Proposal Submission Time. The Proposal Submission Template will not be used to collect the response to this Appendix G-1.** Bidders are required to submit their response to the questions below in such a way that clearly identifies the question to which each response pertains, and to provide the response to the RFP Administrator by the applicable deadline.

1. **Plant and Equipment**

* 1. Provide a Site Plan and General Arrangement Drawings that include the following information:
     1. Power Island
     2. Fuel supply and transport information
     3. Natural gas interconnection points
     4. Transportation infrastructure, where applicable (e.g. waterways, highways, etc)
     5. Major one line diagrams
  2. Provide a Station Description and Major Equipment List that includes:
     1. Turbines
     2. Boiler (HRSG) Contract Data Sheet
     3. Emissions control equipment
     4. P&ID’s of the Units
     5. Electrical Single Line Drawings
     6. Major Modifications to Units
     7. Instrumentation and Control System (DCS) and Updates
     8. Water Supply and Wastewater Discharge
     9. Fire Protection
     10. Fuel systems
     11. Status of warranties, including expiration dates, for the major equipment
     12. Plant Cooling System (wet, dry, hybrid), including annual plant water requirements
  3. Provide the Plant Design Life
  4. Provide the following Operational Characteristics of the proposed resource:
     1. Description of the various modes of operation of the generating unit
     2. The minimum and maximum load range in each mode of operation
     3. The maximum ramp rates over the load range for each mode of operation
     4. The minimum run times
     5. The minimum down time
     6. Typical start-up MW and Fuel Gas usage profile versus time for each type of start-up (hot, warm and cold).
     7. Define hot, warm and cold start-up in terms of time off-line.
     8. The typical shutdown time
     9. The MVar capability range of the generator (Include ‘as tested results’)
     10. Is the unit equipped with automatic generation control? (“AGC”) (applicable only if providing an option for enhanced dispatch)
     11. What is the operating range of the unit under AGC? (applicable only if providing an option for enhanced dispatch)

1. **Operations and Maintenance**

* 1. As requested in Section 20 of Appendix C, indicate whether the Bidder wishes to propose enhanced dispatch and/or curtailment flexibility.
     1. Specify and describe the enhanced dispatch and/or curtailment right (or collection of dispatch and/or curtailment rights), and the impact on the proposal terms provided in the Proposal Submission Template.
  2. Provide the following historical Electric Generating Statistics (Commercial Operations Date (“COD”) through 2011)
     1. Gross, Auxiliary, and Net Generation
     2. Unit Heat Rate
        1. Summer (97 deg F, 56% RH) Min.-Max.
        2. Winter (68 deg F, 74% RH) Min.-Max.
        3. Max., 75%, 50%; Min. %
     3. Outage Event Summary
     4. Capacity Factors
     5. Service Hours
     6. Derate Causes, Time, and kWh
     7. History of Planned Outages
     8. Turbine Overhaul Cycle (Year) & Outage Time (Weeks)
     9. Reports from any boiler, turbine, or unit Performance Tests
     10. Combustion Turbine Cold, Hot Starts, Factored Fired Hours, and Factored Fired Starts
     11. Outage Rates, including:
         1. Equivalent Forced Outage Rate (“EFOR”)
         2. Planned Maintenance Outage Rates
  3. Provide the anticipated major maintenance schedule for the project by year for the anticipated PPA term
  4. Provide an organization chart that has the roles and responsibilities for those who support plant operations, environmental, regulatory compliance, and other major functions of the resource
  5. Provide the following Inspection Reports:
     1. Boilers (HRSG)
     2. Turbines
     3. Generators
     4. Combustion Turbine
        1. Combustion Inspections (CI)
        2. Hot Gas Path Inspection (HGPI)
        3. Major Inspection (MI)
  6. Provide the Site Spares Inventory for the Major Components including:
     1. Turbines (CGT & STA)
     2. Generators
     3. Boiler (HRSG)
     4. Other (Include BOP)
  7. Describe the Balance of Plant Routine, Predictive and Preventive Maintenance Activities/Programs
  8. If an option for enhanced dispatch is included with proposal, describe the Spinning and Operating Reserve Capabilities and historic performance
  9. Provide Capital Work Requests and Major Maintenance Expenditures from COD through 2012
  10. Provide planned major capital upgrades and projects for the Facility during the proposal term
      1. Provide Capital Work Requests
      2. Provide Major Maintenance Expenditures
  11. Provide a list of current Operation/Maintenance Contracts including:
      1. Operating Agreements
      2. Service Agreements (Internal and External) including LTSA
      3. Warranty Contracts
      4. Vendor/Procurement
      5. Water Contracts/Rights
      6. NOx/SO2 Allowance or Allocation Agreements
      7. Guaranties/Credit Support
  12. Provide a list of Capital Projects/Commitments including:
      1. Commitments or Purchase Orders
      2. Construction/Engineering Agreements
  13. Provide a list of Utility Service Agreements including:
      1. Potable Water
      2. Wastewater/Sewer
      3. Station Service Agreement
      4. Other Material Contracts
  14. Capacity-Related Benefits and/or Environmental Attributes (as requested in Appendix C – Section 13):
      1. Describe any studies or other actions needed to qualify the Facility, or the portion allocated to Buyer, for capacity-related benefits and/or Environmental Attributes
      2. Describe the status and any results of any such actions
  15. As requested in Appendix C – Section 15, indicate whether the Facility is or will be capable of providing any ancillary services or Other Electrical Products to Buyer and, if so, which ones and the basis of that belief
  16. Nameplate Capacity
      1. As requested in Appendix C – Section 9, if Bidder proposes to allocate to Buyer less than all of the nameplate capacity of the Facility, please describe in detail how Bidder intends to sub-divide the capacity (*e.g*., by dedicating to Buyer certain generating units at the Facility), including
         1. Proposed procedures for metering;
         2. Tagging/scheduling with the Balancing Authority or similar action (if applicable);
         3. Joint use of Common Facilities; and
         4. Settlement

1. **Environmental**

* 1. What is the national Ambient Air Quality Standards (“NAAQS”) attainment status for the project region, on a pollutant basis for all criteria pollutants?
  2. Provide a list of all current effective environmental permits/registrations, including any federal, state or municipal permits issued related to the Facility or site.
  3. Describe any pending permit-renewal proceedings and any pending requests for modification. Define and describe any expected hurdles to permit re-issuance or permit modifications.
  4. Provide a detailed overview of the environmental management procedures in place to manage compliance with both existing Permit Conditions (all media) and Federal & State proposed and newly promulgated regulations.
  5. Define and describe the regulatory compliance plan for major environmental regulations (As applicable and including but not limited to: Cross-State Air Pollution Rule (“CSAPR”), Mercury and Air Toxics Standards (“MATS”), Regional Haze, Reciprocating Internal Combustion Engines National Emission Standards for Hazardous Air Pollutants (“RICE NESHAPS”), Clean Water Act (“CWA”) 316b,etc.) proposed or promulgated with effective compliance dates that would be applicable to the facility and/or require the permitting of and future installation of control devices. Please provide installation and operating costs for all control devices that will be installed to meet regulatory requirements.
  6. Describe the Facility environmental performance over the past five years (i.e., annual wastewater violations, excess air emissions unrelated to startup and shutdown, reportable spills and releases)

1. **Transmission**

Transmission Interconnection

* 1. Provide Large Generator Interconnection Agreement
  2. Reliability
     1. Provide a list of issues affecting the grid relative to the operation (loss) of site generation (if applicable)
     2. Provide a list of issues affecting operation relative to the loss of local transmission (if applicable)

Transmission Service

* 1. Discuss whether any transmission service requests are pending associated with the generating unit, and if so, whether a System Impact Study or Facility Study is available.
  2. Provide a list of any transmission rights currently granted, requested or planned to be requested from the plant along with any associated rollover rights and transmission credits.
  3. For Off-System Resources, provide the transmission service request number from OATI-OASIS as evidence of transmission service to the Entergy system.
  4. For Off-System Resources, indicate whether the Bidder has estimated costs and/or considered the expected costs within the proposal to obtain transmission service necessary to deliver the offered amount of Capacity, energy and Other Electric Products to Buyer at the Energy Delivery Point, including, without limitation, all transmission upgrades or other improvements necessary to obtain such service.

1. **Financial Information**

* 1. Current ownership structure
  2. Financial statements for the past three years for the Bidder and/or the Bidder’s credit support provider; including balance sheet, income statement and cash flow along with the long-term debt structure. Any ratings (if available) from the major ratings agencies (S&P, Moody’s, and/or Fitch). Lien information that might impact the credit worthiness of the Bidder and/or the Bidder’s credit support provider.
  3. A list of any pending claims, actions, disputes or other proceedings currently pending or threatened against the project
  4. Copies of all bankruptcy court orders, including the order discharging the project and debtor from the bankruptcy proceedings
  5. Copies of project contracts not rejected during the bankruptcy proceedings and still in effect
  6. Advise as to whether any project funds are subject to a constructive trust or equitable lien in favor of third parties (per ruling of bankruptcy court)

1. **Fuel Supply and Transportation**
   1. Please describe the current fuel supply arrangements in place and provide copies of any existing fuel agreements and amendments thereto, including:
      1. Sources of supply
      2. Pricing terms
      3. Term of Contracts
      4. Firmness of Service
      5. Fuel replacement
      6. Counterparties
      7. Please describe future plans for procuring fuel to the extent it is expected to be different than current procurement strategies
   2. Please describe any assurances in place in order to protect the facility from fuel curtailments during severe conditions such as hurricanes and other extreme weather conditions.
   3. If an option for enhanced dispatch is included with proposal, define limitations of fuel delivery which may limit the operation of the generating facility between its minimum and maximum capabilities.
   4. Does the resource have dual fuel capability? If so, please describe and provide key contractual terms for such fuel arrangements.
   5. Fuel Adder
      1. As requested in Appendix C – Section 18, if proposal includes a Fuel Adder, indicate and specify a proposed mechanism/formula for determination of the Fuel Adder to be added to the Base Energy Price.
      2. Define any applicable state and local taxes which apply to the fuel(s) use at the facility.
      3. Please describe the current mode(s) of fuel transport that currently supply the facility, and provide copies of any existing transport agreements and amendments thereto.
         1. Provide the identity of the transporter, and the area of service
         2. Please describe future transport arrangements to the extent they may be expected to change compared to current arrangements