1. PROJECT NARRATIVE

The intent of this narrative is to describe how the proposer intends to meet the intent of the RFP and focus on the best siting option(s) and technology(ies).

Siting Study

The purpose of the Siting Study is to perform a high-level study of the sites and generation technologies in today's market to narrow the field of options that should be considered for addition to IPL's electrical system. To accomplish the goal of the Siting Study, POWER will:

- Visit each of the four sites to collect site data and confirm data from legacy site evaluation studies and Master Planning documents prepared by Sega Inc. This section of the Siting Study will be performed by former Sega Inc. personnel that have participated in multiple projects and have made multiple site visits to each of the candidate sites.
- Gather information regarding IPL's agreements with SPP to understand limitations.
- Assemble technical data from suppliers on generation equipment sources.
- Analyze general environmental constraints to compare potential issues and relative feasibility of each site for the technologies.
- Eliminate technologies which are infeasible at candidate sites.
- Compare the needs of the generation sources to the existing infrastructure and provide best recommendation for site / technology for up to 108 MW of replacement generation capacity.
- Provide up to two (2) secondary options for IPL's consideration and selection moving forward to the Generation RFP phase.

Equipment that is to be considered includes equipment typically used in the 100 MW or less rating category. POWER's analysis will include equipment that is typically furnished by suppliers under a build-transfer arrangement. Equipment technologies that prefer a PPA approach will be noted in the analysis as such and will not be considered. The generation equipment expected to be reviewed:

- Combustion turbine technology – natural gas primary fuel (with and without hydrogen combustion potential, oil-fired capability, and new and grey market) and considering up to three separate models.
- Reciprocating engine technology – natural gas primary fuel (with and without hydrogen combustion potential and oil-fired capability) and considering up to two separate models.

- Battery energy storage
- Solar PV
- Wind

A table format is envisioned for comparison. More than one table may be required. The sites should be compared for physical characteristics and summarized which sites are suitable for which generation technology and which technologies should be eliminated from consideration at each site. A second table should be created comparing several available generation options for performance characteristics and costs/kW.

The best recommendations will be based on identifying the option that has the least amount of issues and has the perceived least cost. Detailed cost estimates are not intended to be performed. POWER's perception of cost will be based on experience and high-level cost estimate data gathered from suppliers, Thermoflow PEACE software, and available in POWER's cost history database.

After review of the siting study with IPL, the Generation RFP will be prepared based on the best recommendation. Results from the study and review comments from IPL will be discussed as to whether the Generation RFP will be expanded to also include one or two of the secondary options.

Generation RFP

The purpose of the Replacement Generation RFP is to solicit and receive turnkey proposals for new generation sources to be added to IPL's system at one or more selected sites. The strategy for preparing the RFP is to provide a framework of project requirements without going into detailed analysis or design. High-level descriptions of project requirements, from an overview of the project, to quality, to environmental/regulatory, to submission of bid requirements, and performance expectations is the planned level of detail for the RFP. Information about existing systems gathered during the siting will be provided as information.

The Generation RFP will approximately follow this outline:

- RFP Overview
- General Information and Schedule
- RFP General Requirements
- Generation Facility Proposals
- Bid Evaluation and Selection Process
- Proposal Submission
- Reservation of Rights
- Regulatory Approvals
- Confidentiality of Information
- Appendices
    - > Information Gathered During Siting Study
    - > Sample Agreements

Information expected to be gathered and summarized in the RFP, includes:

- Site Physical Parameters
- Resource Availability
- Power Delivery Interconnection
- Environmental Aspects
- Aesthetic or Social Considerations

The scope of the Generation RFP includes the submission of the RFP to IPL for its use. It is unclear how much scope is required by the Engineer to support IPL past preparation of the RFP. Services such as identifying bidders, soliciting proposals, answering questions during bidding, bid tabulation, bid evaluation, etc. can all be provided as extra services.

POWER's proposed scope of services is defined by our Work Plan.