



October 31, 2011

[Redacted]
[Redacted]
[Redacted]
[Redacted]

J [Redacted]
[Redacted]
[Redacted]

Re: Facility Study Report for [Redacted] Project – GI Project #362/366

Dear Mr. [Redacted] and Mr. [Redacted]:

Idaho Power Company (IPC) has completed the Facility Study cost estimate for your Generator Interconnection project. Attached please find a Final Facility Study Report (FSR). I am available to discuss the FSR, and begin Construction arrangements for the project.

This final report will be used to prepare a draft Generator Interconnection Agreement in preparation for Construction. [Redacted] will be working with you to finalize the Interconnection Agreement.

Before we can begin Construction or order materials, you are responsible for contacting Idaho Power's credit department to discuss credit requirements for construction funding. Please contact [Redacted] ([Redacted]) at your earliest convenience. Once we receive funding, or the credit requirement is met, we can proceed with construction of the project.

The actual construction and labor charges will be finalized approximately 90 days subsequent to project completion. We will reconcile any over- or underpayment at that time.

I look forward to hearing from you soon.

Sincerely,

[Redacted]

[Redacted]
Project Leader

Attachment: [Redacted] Project Facility Study Report with Drawings

Cc: [Redacted]/IPC [Redacted]/IPC [Redacted]/IPC



Generator Interconnection Facility Study Report

for the

[REDACTED] Project # 362/366

for

[REDACTED]

in

Lemhi County, Idaho

10/31/2011

FACILITY STUDY REPORT (FSR)

C [REDACTED]

Project # 362/366

10/31/2011

1. General Facility Description

The proposed project will consist of Idaho Power's standard 4 pole overhead generation interconnection package near [REDACTED], in Lemhi County, Idaho. The project will connect to the 34.5 kV system out of Idaho Power Company's [REDACTED] Substation. The total project output is 1.21 MW.

Interconnection Customer:

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

A Standard Generator Interconnection Agreement under Idaho Power Company's Open Access Transmission Tariff (OATT) or Schedule 72 between Interconnection Customer and Idaho Power Company – Delivery (Transmission Owner) for the [REDACTED] Project, specifically Generator Interconnection Projects # 362/366, will be prepared for this project.

1.1 Interconnection Point

The Interconnection Point for the [REDACTED] Project will be the Generator side of Idaho Power's X disconnect switch in the interconnection package. The project's location is Lemhi County, Idaho. A drawing identifying the Point of Interconnection is attached.

1.2 Point of Change of Ownership

The Point of Change of Ownership for the [REDACTED] Project will be the Generator side of Idaho Power's X disconnect in the interconnection package.

1.3 Customer's Interconnection Facilities

The Interconnection Customer will install generators, disconnect switches, distribution collector system, transformers, appropriate grounding measures, and associated auxiliary equipment. Interconnection customer will build facilities to the Point of Change of Ownership for the generator facility.

1.4 Other Facilities Provided by Interconnection Customer

1.4.1 Telecommunications

In addition to communication circuits that may be needed by the Interconnection Customer, the Interconnection Customer shall provide the following communication circuits for Idaho Power's use:

1. One POTS (Plain Old Telephone Service) dial-up circuit for querying the revenue meter at the generation interconnection site.
2. One leased DDS (Digital Data Service) circuit for SCADA between the generation interconnection site and Idaho Power's [REDACTED] Building ([REDACTED]). This circuit must operate at 19.2 kbps data rate or higher. Please note that Frame Relay service is not acceptable.

The Interconnection Customer is required to coordinate with a communications provider to provide the communications circuits and pay the associated one time setup and periodic charges. The communication circuits will need to be installed and operational prior to generating into the Idaho Power system. Note that installation by communications provider may take several months and should be ordered in advance to avoid delaying the project. If the communication circuit types listed above are not available at the site by a communications provider, the Interconnection Customer shall confer with Idaho Power.

If high voltage protection is required by the communications provider for the incoming communications provider cable, the high voltage protection assembly shall be engineered and supplied by the Interconnect Customer. Options are available for indoor or outdoor mounting. The high voltage protection assembly shall be located in a manner that provides Idaho Power 24-hour access to the assembly for troubleshooting of Idaho Power owned equipment.

1.4.2 Ground Fault Equipment

The Interconnection customer will install transformer configurations that are Grounded-WYE to Grounded-WYE and will limit the contribution of the ground fault current to 20 amps or less at the Interconnection Point.

1.4.3 Easements

The Interconnection Customer will provide to Idaho Power a surveyed (Metes & Bounds) legal description along with exhibit map for Idaho Power's facilities. After the legal description has been delivered to IPCO for review, IPCO will supply to the Interconnection Customer a completed IPCO easement for signature by the land owner of record. Once the signatures have been secured, the Interconnection Customer will return the signed easement to IPCO for recording.

1.4.4 Local Service

The Interconnection Customer is responsible to arrange for local service to their site, as necessary.

1.5 Idaho Power Company's Interconnection Facilities

Idaho Power will install a standard generation interconnection package that will connect to distribution feeder [REDACTED]. If the Interconnection customer is going underground to the Interconnection Point, Idaho Power will include a pole riser for the Generator to install

cables to interconnect to the Idaho Power system. If the interconnection customer is going overhead to the Interconnection Point, it will be at a tension not to exceed the design tension specified by Idaho Power.

The new interconnection package will include four distribution poles to mount a local service transformer, solid blade disconnects, primary metering package, recloser, relays, fuses and riser necessary for the package. The interconnection will be controlled by a SEL-311C line protection relay. The relay will be located in a pole mounted enclosure and will also contain a test switch (TS4), SLSS, dialup modem, 202 modem, isolation interface, power supply, DC converter, control switch and surge protector.

Concrete barriers may be necessary to protect this equipment from local area traffic.

Power Purchase Agreement(s) between the Seller and Idaho Power may require that [REDACTED] is metered separately from [REDACTED]. The additional meters (and possible communication requirements to those meters) are not included in the estimated cost below.

1.6 Facility Estimated Cost:

The following good faith estimates are provided in 2011 dollars:

Description	Ownership	Cost Estimate
<i>Interconnection Facilities:</i>		
Overhead Generation Interconnection Package	IPC	\$225,000
	<i>SUBTOTAL</i>	\$225,000
<i>See Section 6 for the Project Grand Total</i>		

2. Milestones

Date	Milestones
TBD	<i>Construction Funds Received by IPCO</i>
8 Months after Construction Funds Received by IPCO	<i>IPCO Construction Complete</i>
1 month after IPCO Construction Complete	<i>IPCO Commissioning Complete</i>
TBD by seller	<i>Commercial Operation Date</i>

These milestone dates assume that material can be procured and labor resources are available. Additionally, any permitting issues outside the immediate control of Idaho Power could also influence the Commercial Operation Date.

3. Operating Requirements

The project is required to comply with the applicable Voltage and Current Distortion Limits found in IEEE Standard 519-1992 *IEEE Recommended Practices and requirements for harmonic Control in Electrical Power Systems* or any subsequent standards as they may be updated from time to time.

Voltage flicker at startup and during operation must be limited to less than 5% as measured at the Point of Interconnection.

Low Voltage Ride Through: The Project must be capable of riding through faults on adjacent section of the power system without tripping due to low voltage. It has been determined, through study, that the Project must be capable of remaining interconnected for any single phase voltage as low as 0.7 PU for 30 cycles, and for all three phase voltages as low as 0.8 PU for 30 cycles.

Interconnection Customer will be able to modify power plant facilities on the Interconnection Customer side of the Interconnection Point with no impact upon the operation of the transmission or distribution system whenever the generation facilities are electrically isolated from the system via the X switch and a terminal clearance is issued by Idaho Power Company’s Grid Operator.

4. Reactive Power

The [REDACTED] Project must be controlled to operate as a VAr neutral system with a ± 250 kVAr operating band.

5. Upgrades

5.1 Distribution Upgrades

Voltage levels on feeder [REDACTED] are controlled by a bank of regulators. The regulator controllers will be replaced to handle new settings required with the addition of the project.

Estimated Costs

The following good faith estimates are provided in 2011 dollars:

Estimated Cost:

Description	Ownership	Cost Estimate
<i>Interconnection Facilities (from section 1.6):</i>		
Overhead Generation Interconnection Package	IPC	\$225,000
TOTAL		\$225,000
<i>Upgrades to Distribution:</i>		
Regulator Controller Replacements	IPC	\$10,000
TOTAL		\$10,000
GRAND TOTAL		\$235,000

Note Regarding Transmission Service:

This Facility Study is a Network Resource Interconnection Facility Study. This study identifies the facilities necessary to integrate the Generating Facility into Idaho Power's network to serve load within Idaho Power's balancing area. Network Resource Interconnection Service in and of itself does not convey any right to deliver electricity to any specific customer or Point of Delivery.