

Generator Interconnection Facility Study Report

for the

200 MW

for

in

July 14, 2023

FACILITY STUDY REPORT (FSR)

200 MW [REDACTED]
Project #669
July 14, 2023

1. General Facility Description

[REDACTED] (Interconnection Customer) has stated that the proposed project will consist of a 200 MWac solar photovoltaic/battery energy storage system (BESS) and connect to a new 230kV station on Idaho Power Company's (IPC) [REDACTED] transmission line in Ada County, Idaho. The total project output as studied is [REDACTED]

Contact Information for Interconnection Customer is as follows:

[REDACTED]

A Standard Large Generator Interconnection Agreement (LGIA) under IPC's Open Access Transmission Tariff (OATT) between Interconnection Customer and IPC – Delivery (Transmission Provider) for the 200 MW [REDACTED], specifically Generator Interconnection Project #669 (Project), will be prepared for this project. The LGIA will be a definitive agreement that contains terms and conditions that supersedes this FSR.

Project Queue and Affected Systems:

The Project has applied to connect to Idaho Power's transmission system for an injection of 200 MW at a single Point of Interconnection (POI) on IPC's [REDACTED] transmission line.

If an earlier queue project that is responsible for providing additional transmission capacity should drop out of the queue, a later queue project that may have been relying on at least a portion of any "surplus" capacity may then be faced with additional project costs for transmission capacity additions of their own. As of the date of this report, there are projects in the queue (GI #530, GI #551, GI #557, GI #567, GI #588, GI #590, GI #604, GI #605, GI #619, GI #624, GI #625, GI #629, GI #635, GI #636, GI #638, GI #639, GI #640, GI #643, GI #646, GI #656, GI #657, GI #663, GI #665, GI #667, and GI #668) ahead of the 200 MW [REDACTED] for which costs related to transmission capacity upgrades or additions could be passed on to the Project should changes be made to their queue position or generation output.

The recommended upgrades for GI #530, GI #551, GI #557, GI #567, GI #588, GI #590, GI #604, GI #605, GI #619, GI #624, GI #625, GI #629, GI #635, GI #636, GI #638, GI #639, GI #640, GI #643, GI #646, GI #656, GI #657, GI #663, GI #665, GI #667, and GI #668 were assumed to be completed prior to the interconnection of the Project.

The following Transmission Provider planned system improvements were assumed in-service:

- Boardman to Hemingway 500kV transmission line (2026)

- [REDACTED] series capacitance compensation on the Kinport to Midpoint 345kV transmission line (2025)
- Midpoint Substation transformer [REDACTED] 500:345kV transformer (2025)
- Hemingway to Bowmont 230kV transmission line (2025)
- Bowmont to Hubbard 230kV transmission line (2025)
- Integration of CHIP Substation (2025)
- Midpoint to Hemingway #2 500kV transmission line (2028)

There is an identified contingent facility project for GI #530 (GI #567, GI #588 and GI #604) that is required to be completed prior to the interconnection of this Project. Details on the contingent facilities identified are in Appendix D. For this and other reasons, the cost estimates included in this FSR are estimates only, and are based on currently known or assumed facts that may not be accurate or materialize and are subject to change.

1.1 Interconnection Point

The Interconnection Facilities are located in IPC's [REDACTED] region in Township [REDACTED], Range [REDACTED] and Section [REDACTED]. POI for the Project will be at the new interconnection station ([REDACTED]) on IPC's side of air-break switch of [REDACTED], where the bus connects between air-break switches [REDACTED] and [REDACTED]. A drawing identifying the POI is attached as Exhibit 1.

1.2 Point of Change of Ownership

The Point of Change of Ownership for the Project will be on the Interconnection Customer's side of air-break switch [REDACTED]. A drawing identifying the Point of Change of Ownership is attached as Exhibit 1.

1.3 Interconnection Customer's Facilities

The Interconnection Customer's facilities are located approximately [REDACTED] miles away from IPC's Interconnection Facilities. The Interconnection Customer will install solar arrays, batteries, [REDACTED] PV inverters and [REDACTED] BESS inverters, disconnect switches, distribution collector system, transformers, controllers, appropriate grounding measures, and associated auxiliary equipment. The main step-up transformer is 142/189/237 MVA GSU transformers. Interconnection Customer will build facilities to the Point of Change of Ownership.

The Interconnection Customer's system will be constructed as follows:

1. The photovoltaic inverter system will comprise of [REDACTED] PV inverters and [REDACTED] BESS inverters
2. Transformer is 142/189/237 MVA
3. [REDACTED] Gen-Tie line with OPGW from Interconnection Customer's Facilities to the Point of Change of Ownership
4. A plant controller will be used to control the inverter system and to implement smart inverter functionality for operating the Project within a voltage range and power factor specified by IPC at the Point of Interconnection.

The above referenced inverters, or equivalent inverters that have the same specifications and functionality as stated above must be utilized. If a different inverter is utilized that has different specifications and functionality than that which was studied then additional study and/or equipment may be necessary.

The battery energy storage system component of the project was studied from charging from the grid. The charging of the BESS was assumed to be interruptible. There may be times during the year where system load in the local area will prevent charging of the BESS at full capacity.

1.4 Other Facilities Provided by Interconnection Customer

1.4.1 Telecommunications

The Interconnection Customer is not responsible for any third-party communication circuits for the IPC Interconnection Facilities. Any additional telecommunication requirements will be the sole responsibility of the Interconnection Customer.

1.4.2 Ground Fault Equipment

The Interconnection Customer will install transformer configurations that will provide a ground source to the transmission system.

1.4.3 Generator Output Limit Control

The Interconnection Customer will install equipment to receive signals from IPC Grid Operations for Generation Output Limit Control (GOLC) - see Section 3 Operating Requirements and Appendix A. IPC's recommended method of communication for GOLC is via fiber between the new [REDACTED] and the Project.

1.4.4 Local Service

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

1.4.5 Property

This project will require a new [REDACTED] station approximately [REDACTED] ft to be constructed to interconnect the Interconnection Customer's interconnection transmission line and the exiting [REDACTED] transmission line. It is preferred that the land be obtained by the Interconnection Customer and then be transferred to IPC in accordance with the land transaction document requirements listed below. The Interconnection Customer may request that Idaho Power procure the land. Regardless, the Interconnection Customer will be responsible for all expense related to the land procurement consistent with Article 5.13 of the LGIA. Cost of the land is not included in the estimate provided in this report. The milestone schedule is also subject to change if Interconnection Customer requests IPC to obtain the land.

If the Interconnection Customer elects to acquire the land, it will acquire and then transfer ownership to IPC, the property for IPC's interconnection station yard. The interconnection station will be owned and maintained by IPC. The Interconnection Customer, at its sole cost and expense, will provide to IPC documents and services as identified below relating to IPC's land rights required for its Interconnection Facilities:

1.4.5.1 Land Transaction Documents

Land transaction documents (Land Transaction Documents) in a form approved by IPC that may include, but are not limited to, the following:

- Right of Entry Agreement;
- Fee ownership parcel (Fee Ownership Parcel) conveyance pursuant to a Warranty Deed;
- Purchase and Sale Agreement;
- Access Easement;

- Easements for distribution service lines, major distribution power lines, and transmission power lines and related ancillary facilities as determined necessary by IPC at IPC's sole discretion, to support the interconnection facility and Interconnection Customer's development;
- Completed Applications with respective fees for Release of Easements and/or Crossing Agreements that may be required for the Project;
- Crossing Agreements; and
- Any other Project specific documents deemed necessary by IPC.

Interconnection Customer is advised that IPC review and approval of the Land Transaction Documents may require six (6) to nine (9) months. Interconnection Customer is advised to provide all required Land Transaction Documents at earliest possible time. Refer to Appendix C for a quick reference guide to Idaho Power Corporate Real Estate Fee Acquisition and/or Easement Parcel requirements. Upon IPC approval of all Land Transaction Documents, IPC will supply to the Interconnection Customer final form documents for signature by the land owner of record. The Interconnection Customer shall return original signed and recorded Land Transaction Documents to IPC. All recording and mailing fees shall be paid by Interconnection Customer. IPC shall provide to Interconnection Customer electronic copies of all fully executed and recorded Land Transaction documents.

1.4.6 Site Work

The Interconnection Customer will provide property, property access and site plan for IPC's interconnection station. IPC will perform land clearing and grading for IPC's interconnection station.

1.4.7 Monitoring Information

If the Interconnection Customer requires the ability to monitor information related to the IPC breaker/relay (i.e., Mirrored Bits) in the new IPC interconnection station, they are required to supply their own communications circuit. The fiber communication circuit used for GOLC is acceptable.

1.4.8 Meteorological Data

In order to integrate the solar energy into the IPC system and operate IPC's solar forecasting tool, the Interconnection Customer must provide solar irradiation and weather data from the Project's physical location to IPC via real time telemetry in a form acceptable to IPC. The associated cost for obtaining this data is the Interconnection Customer's responsibility.

The data must be provided at 10 second intervals and consist of:

1. Global Horizontal Irradiance
2. Plane of Array Irradiance
3. Ambient Temperature
4. Wind Speed and Wind Direction
5. Relative Humidity

The installed instruments must equal or exceed the specifications of the following instruments:

Temperature and Relative Humidity: R.M Young Relative Humidity and Temperature Probe Sensors Model 41382

Wind: R.M Young Wind Monitor Model 05103
Pyranometer: Apogee Instruments Model SP-230

1.4.9 Generator Technical Information & Drawings

Interconnection Customer shall provide draft design prints during Project design development containing technical information, like impedances, and equipment brand and models. After construction, the Interconnection Customer shall submit to IPC all the as-built information, including prints with the latest approved technical information and commissioning test results.

1.5 IPC's Interconnection Facilities

Transmission Provider's Interconnection Facilities are referred to hereafter as "IPC's Interconnection Facilities." IPC will install at the new [REDACTED], one ION 8650A meter, one dead-end structure, one [REDACTED] air-break switch, three CTs, required foundations, bus, bus supports and fiber communication equipment to allow the Interconnection Customer to interconnect the Project. IPC will install facilities up to the Point of Change of Ownership.

IPC will install equipment to collect and transmit Phasor Measurement Unit (PMU) data to IPC. The data can be made available to the Interconnection Customer on request.

The minimum acceptable PMU message rate is 30 messages per second. The minimum set of PMU measurement channels recorded at the POI is shown below. Additional or substitute channels may be required on a per case basis depending on the interconnection configuration and facility design details.

- Frequency
- Frequency Delta (dF/dt)
- Positive Sequence Voltage Magnitude
- Positive Sequence Voltage Angle
- Positive Sequence Current Magnitude
- Positive Sequence Current Angle

2. Estimated Milestones

These milestones will begin, and the construction schedule referenced below will only be valid, upon receipt of funding from Interconnection Customer or its authorized third party no later than the date set forth below for such payment. IPC will not commit any resources toward project construction that have not been funded by Interconnection Customer. Additionally, failure by Interconnection Customer to make the required payments as set forth in this Study by the date(s) specified below may result in the loss of milestone dates and construction schedules set forth below. In the event that the Interconnection Customer is unable to meet dates as outlined below, Interconnection Customer may request suspension of up to three (3) years pursuant to section 5.16 of the LGIA. Upon suspension of work pursuant to section 5.16 of the LGIA, the applicable construction duration, timelines, and schedules set forth in Appendix D shall be likewise suspended. Estimated milestones, which may be updated and revised for inclusion in the LGIA in light of subsequent developments and conditions, are as follows:

Estimated Date	Responsible Party	Estimated Milestones
Upon LGIA execution	<i>Interconnection Customer</i>	<i>IPC receives Notice to Proceed for design, procurement <u>and</u> construction.</i> <i>Construction funding or arrangements acceptable to IPC are made with IPC's Credit Department</i>
10 months after construction funds received	<i>Interconnection Customer</i>	<i>IPC's interconnection station location identified, and Land Transaction Documents executed.</i>
2025	<i>IPC</i>	<i>Contingent Facility completed. (Appendix D)</i>
24 months after construction funds received	<i>IPC</i>	<i>IPC Engineering and Design Complete</i>
30 months after construction funds received	<i>IPC</i>	<i>IPC Long Lead Material Procured/Received</i>
6 months prior to IPC Commissioning	<i>IPC</i>	<i>New generation must be modeled and submitted to the Western Energy Imbalance Market a minimum of 6 months prior to coming online, failure to submit by given lead time will results in project delay.</i>
42 months after construction funds received	<i>IPC</i>	<i>IPC Construction Complete</i>
43 months after construction funds received	<i>IPC</i>	<i>IPC Commissioning Complete Back feed power is available</i>
2028	<i>IPC</i>	<i>All Transmission Provider planned system improvements completed including Midpoint to Hemingway #2 500kV transmission line Complete</i>
5 days after switching request made to IPC Dispatch	<i>Interconnection Customer</i>	<i>Switch at the Point of Interconnection can be closed</i>
TBD	<i>IPC</i>	<i>Notification from IPC's Energy Contracting Coordinator confirming First Energy of Non-Firm Output</i>
TBD	<i>Interconnection Customer</i>	<i>Interconnection Customer testing begins</i>
TBD	<i>IPC</i>	<i>Notification from IPC's Energy Contracting Coordinator confirming Operation Date (pending all requirements are met) of Firm Network Resource Output</i>

Interconnection Customer has requested a Commercial Operation Date (COD) of 12/1/2026. The above milestone schedule may not align with the requested COD; however, IPC has developed the above milestone dates in good faith considering many factors, including the requested COD, known long-lead

times, and the schedule of other in-progress projects. IPC does not warrant or guarantee the foregoing estimated milestone dates, which are estimates only. These milestone dates assume, among other things, that materials can be timely procured, labor resources are available, and that outages to the existing transmission system are available to be scheduled. Additionally, there are several matters, such as permitting issues and the performance of subcontractors that are outside the control of IPC that could delay the estimated Operation Date. For purposes of example only, federal, state, or local permitting, land division approval, identification of Interconnection Facilities location, access to proposed Interconnection Facilities location for survey and geotechnical investigation, coordination of design and construction with the Interconnection Customer, failure of IPC's vendors to timely perform services or deliver goods, and delays in payment from Interconnection Customer, may result in delays of any estimated milestone and the Operation Date of the project. To the extent any of the foregoing are outside of the reasonable control of IPC, they shall be deemed Force Majeure events.

3. Operating Requirements

The Project is required to comply with the applicable Voltage and Current Distortion Limits found in IEEE Standard 519-2014 *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.

The Project will be subject to reductions directed by IPC Grid Operations during transmission system contingencies and other reliability events. When these conditions occur, the Project will be subject to Generator Output Limit Control (GOLC) and will have equipment capable of receiving an analog setpoint via DNP 3.0 from IPC for GOLC. Generator Output Limit Control will be accomplished with a setpoint and discrete output control from IPC to the Project indicating maximum output allowed. For more detail see Appendix A.

Low Voltage Ride Through: The Project must be capable of riding through faults on adjacent sections of the power system without tripping due to low voltage. The interconnection projects must meet or exceed the Low Voltage Ride-Through requirements as set forth in NERC Standard PRC-024.

Frequency Response Requirements: Generator must be capable of providing Primary Frequency Response for both positive and negative frequency deviations from 60Hz (± 0.036 Hz) with a droop of up to 5% for Bulk Electric System disturbances. Provided that Generator meets the above Primary Frequency Response requirements, Company shall not curtail Interconnection Customer when such curtailments are caused by a need to comply with applicable Frequency Responsive reliability standards.

Momentary Cessation Requirements: Momentary cessation should not be used within the voltage and frequency ride-through curves specified in PRC-024. Use of momentary cessation is not considered "ride through" within the "No Trip" zone curves of PRC-024. The use of momentary cessation should be eliminated to the extent possible consistent with NERC's *Reliability Guideline for BPS-Connected Inverter-Based Resource Performance*.

Interconnection Customer will be able to modify power plant facilities on the Interconnection Customer side of the Point of Change of Ownership with no impact upon the operation of the

transmission or distribution system whenever the generation facilities are electrically isolated from the system via the air-break switch [REDACTED], and a terminal clearance is issued by IPC's Grid Operator.

4. Reactive Power

It is the Project's responsibility to provide reactive power capability to have a power factor operating range of at least 0.95 leading (absorbing) to at least 0.95 lagging (supplying) at the high side of the generator substation over the range of real power output (up to maximum output of the project).

The Project must have equipment capable of receiving an analog setpoint, via DNP 3.0, from IPC for Voltage Control. IPC will issue an operating voltage schedule for the Project prior to the Project's In-Service Date. For more detail see Appendix A.

5. Upgrades

5.1 Upgrades to Distribution System

Install [REDACTED] miles of new distribution line to the new [REDACTED] for local service power.

5.2 Network Upgrades to Substations

The new [REDACTED] will consist of a three position [REDACTED] ring bus to accommodate the addition of one new line terminal to connect the Interconnection Customer's new GI 669 [REDACTED] interconnect line. [REDACTED] will include [REDACTED] line bays, with [REDACTED] steel dead-end structures, [REDACTED] circuit breakers, [REDACTED] air-break switches, [REDACTED] CCVTs, and associated bus supports, foundations, control building, relaying, communications, and control equipment. The station yard will be a [REDACTED] with two entrance gates and driveway aprons, which requires the need for land to be purchased. This construction is all contingent upon the successful purchase of property. Cost of the land is not included in the estimate.

5.3 Network Upgrades to Transmission System

The new [REDACTED] will need to tie into [REDACTED], which will require [REDACTED] OPGW splice boxes, OPGW dead-end hardware, [REDACTED] of new 1272 ACSR Bittern Conductor, 3/8" EHS steel OHGW and 96 count OPGW. Structures will include [REDACTED] new monopole self-supporting dead-end structures and [REDACTED] three-pole self-supporting dead-end structure. All structures will be engineered steel structures on drilled pier concrete foundations.

6. Estimated Costs

The following good faith estimates are provided in 2023 dollars and are based on a number of assumptions and conditions. IPC does not warrant or guarantee the estimated costs in the table below, which are estimates only and are subject to change. Interconnection Customer will be responsible for all actual costs incurred in connection with the work to be performed by IPC and its agents, under the terms and subject to the conditions included in any LGIA executed by IPC and Interconnection Customer. Overhead costs cover the indirect costs associated with the Project and may vary from time to time.

The estimated cost below is required to be paid in full by the Interconnection Customer, or other arrangements acceptable to IPC are made with IPC's Credit Department, prior to IPC commencing construction on the project.

Estimated Cost:

Description	Ownership	Cost Estimate
<i>IPC Interconnection Facilities:</i>		
Facilities between the Point of Change of Ownership and Point of Interconnection as described in Section 1.5	IPC	\$242,891
Contingency 20%		\$48,578
Overheads 7.0%		\$20,403
<i>TOTAL</i>		\$311,872
<i>Upgrades to IPC Distribution System</i>		
Upgrades to Distribution System as described in Section 5.1	IPC	\$353,094
Contingency 20%		\$70,619
Overheads 7.0%		\$29,660
<i>TOTAL</i>		\$453,373
<i>Network Upgrades to IPC Substation</i>		
Upgrades at new Station as described in Section 5.2	IPC	\$4,346,485
Contingency 20%		\$869,297
Overheads 7.0%		\$365,105
<i>TOTAL</i>		\$5,580,887
<i>Network Upgrades to IPC Transmission System</i>		
Upgrade existing transmission line as described in Section 5.3	IPC	\$931,436
Contingency 20%		\$186,287
Overheads 7.0%		\$78,241
<i>TOTAL</i>		\$1,195,964
<i>GRAND TOTAL</i>	\$7,542,096	

Note Regarding Transmission Service:

This FSR is a study of a request for Network Resource Interconnection Service. This FSR identifies the facilities necessary to provide such service. Network Resource Interconnection Service in and of itself does not convey any right to transmission service or to deliver electricity to any specific customer or Point of Delivery.

Note Regarding LGIA:

This FSR is a study and preliminary evaluation only and does not constitute, or form the basis of, a definitive agreement related to the matters described in this FSR. Unless and until a LGIA is executed by IPC and Interconnection Customer, no party will have any legal rights or obligations, express or implied, related to the subject matter of this FSR.

Appendix A

Generation Interconnection Control Requirements

A.1 Generator Output Limit Control (GOLC)

A.1.1 IPC requires Interconnected Power Producers to accept GOLC signals from IPC's energy management system (EMS).

A.1.2 The GOLC signals will consist of four points shared between the IPC EMS (via the IPC RTU) and the Interconnection Customer's Generator Controller (SGC). The IPC RTU will be the master and the SGC will be the slave.

A.1.2.1 GOLC Setpoint: An analog output that contains the MW value the Interconnection Customer should curtail to, should a GOLC request be made via the GOLC On/Off discrete output Control point.

A.1.2.1.1 An Analog Input feedback point must be updated (to reflect the GOLC setpoint value) by the SGC upon the SGC's receipt of the GOLC setpoint change, with no intentional delay.

A.1.2.2 GOLC On/Off: A discrete output (DO) control point with pulsing Trip/Close controls. Following a "GOLC On" control (DNP Control Code "Close/Pulse On"), the SGC will run power output back to the MW value specified in the GOLC Setpoint. Following a "GOLC Off" control (DNP Control Code "Trip/Pulse On"), the Interconnection Customer is free to run to maximum possible output.

A.1.2.2.1 A Discrete Input (DI) feedback point must be updated (to reflect the last GOLC DO Control Code received) by the SGC upon the SGC's receipt of the GOLC DO control, with no intentional delay. The feedback DI should latch to an OFF state following the receipt of a "GOLC OFF" control and it should latch to an ON state following the receipt of an "GOLC ON" control.

A.1.3 If a GOLC control is issued, it is expected to see MW reductions start within 1 minute and plant output to be below the GOLC Setpoint value within 10 minutes.

A.2 Voltage Control

A.2.1 IPC requires Transmission-Interconnected Power Producers to accept voltage control signals from IPC's EMS when they are connected to IPC's transmission system.

A.2.2 The voltage control will consist of one setpoint and one feedback point shared between the IPC EMS and the SGC.

A.2.3 The setpoint will contain the desired target voltage for plant operation. This setpoint will have a valid control range between 0.95 and 1.05 per unit (p.u.) of nominal system voltage.

A.2.4 The control will always be active, there is no digital supervisory point like the Curtail On/Off control above.

A.2.4.1 When a setpoint change is issued an Analog Input feedback point must be updated (to reflect the voltage control setpoint value) by the SGC upon the SGC's receipt of the voltage control setpoint change, with no intentional delay.

A.2.4.2 When a setpoint change is received by the SGC, the voltage control system should react with no intentional delay.

A.2.4.3 The voltage control system should operate at the voltage indicated by the setpoint with an accuracy of +/- 0.5% of the nominal system voltage.

A.2.5 The Interconnection Customer should supervise this control by setting up "reasonability limits", i.e. configure a reasonable range of values for this control to be valid. As an example, they will accept anything in the valid control range (between 0.95 and 1.05 p.u.) but reject values outside this range. If they were fed an erroneous value outside the valid range, their control system would default to the last known, good value.

A.3 Generation Interconnection Data Points Requirements

Digital Inputs to IPC (DNP Obj. 01, Var. 2)			
Index	Description	State (0/1)	Comments:
0	GOLC Off/On (Control Feedback)	Off/On	Feedback provided by Interconnection Customer
1	FREQUENCY RESPONSE OFF/ON (Control Feedback)	Off/On	Feedback provided by Interconnection Customer
2	52A Interconnection Customer Main Breaker (if present)	Open/Closed	Sourced at substation
3	52A Interconnection Customer Capacitor Breaker (if present)	Open/Closed	Sourced at substation

Digital Outputs to Interconnection Customer (DNP Obj. 12, Var. 1)		
Index	Description	Comments:
0	GOLC Off/On	Control issued by IPC
1	Frequency Response Off/On	Control issued by IPC

Analog Inputs to IPC (DNP Obj. 30, Var. 2)							
Index	Description	Raw High	Raw Low	EU High	EU Low	EU Units	Comments:
0	GOLC Setpoint Value Received (Feedback)	32767	- 32768	TBD	TBD	MW	Provided by Interconnection Customer
1	Voltage Control Setpoint Value Rec'd (Feedback)	32767	- 32768	TBD	TBD	kV	Provided by Interconnection Customer
2	Maximum Park Generating Capacity	32767	- 32768	TBD	TBD	MW	Provided by Interconnection Customer
3	Ambient Temperature	32767	- 32768	327.67	-327.68	DEG C	Provided by Interconnection Customer
4	Wind Direction	32767	- 32768	327.67	-327.68	Deg from North	Provided by Interconnection Customer
5	Wind Speed	32767	- 32768	327.67	-327.68	M/S	Provided by Interconnection Customer
6	Relative Humidity	32767	- 32768	TBD	TBD	%	Provided by Interconnection Customer

Analog Inputs to IPC (DNP Obj. 30, Var. 2)							
Index	Description	Raw High	Raw Low	EU High	EU Low	EU Units	Comments:
7	Global Horizontal Irradiance	32767	-32768	TBD	TBD	W/M^2	Provided by Interconnection Customer
8	Plane of Array Irradiance	32767	-32768	TBD	TBD	W/M^2	Provided by Interconnection Customer
9	SPARE						
10	SPARE						
11	SPARE						
12	SPARE						
13	SPARE						
14	SPARE						
15	SPARE						
16	SPARE						
17	SPARE						

Analog Outputs to Interconnection Customer(DNP Obj. 41, Var. 2)							
Index	Description	Raw High	Raw Low	EU High	EU Low	EU Units	Comments:
0	GOLC Setpoint	32767	-32768	TBD	TBD	MW	Control issued by IPC
1	Voltage Control Setpoint	32767	-32768	TBD	TBD	kV	Control issued by IPC
2	SPARE						
3	SPARE						
4	SPARE						
5	SPARE						
6	SPARE						
7	SPARE						
8	SPARE						
9	SPARE						

Appendix B

IPC Survey Requirements

- ☐ Is the Grantor's Deed Instrument No. noted in the Exhibit 'A' Legal Description or Exhibit 'B' Survey Map?
- ☐ Are the Section, Township, Range, and County information clearly stated on the Exhibits?
- ☐ Is the Basis of Bearings between found monuments called out and noted on the Exhibits?
- ☐ Are the Point of Commencement, Point of Beginning and or Point of Terminus shown on the Exhibits?
- ☐ Do all lines have a bearing and distance associated with them on the Exhibits?
- ☐ All lines need bounding calls to Grantor's ownership lines, Rights-of-Way, etc. in Exhibit A.
- ☐ Are the Subdivision names, lot & block, and streets labeled on the Exhibit B?
- ☐ Are any existing Utility Easements adjoining this Easement called out and shown on the Exhibits?
- ☐ Is the map scale noted and is there a North arrow shown on the Exhibit B?
- ☐ On a strip easement is the width given and does it call to form a closed figure in the Exhibit A?
- ☐ Does the Parcel description close?
- ☐ Are the reference surveys of record or CP&Fs used to prepare the easement called out and shown on the Exhibits?
- ☐ A Professional Land Surveyor or Engineer in responsible charge must stamp, sign and date the exhibits for submission.
- ☐ A copy of the current Deed of Record for the Grantor is needed for submission.

Appendix C

Idaho Power Company – Corporate Real Estate Department Fee Parcel Acquisition Requirements for Developers

Idaho Power Company Corporate Real Estate Department Requirements of Developers for Interconnection Facility/Substation Land for Development of Idaho Power Company Interconnection Facilities Fee Acquisition

Allow a minimum of six months' time frame for land transaction portion of the project – may be longer depending on project specifics.

1. **Project Map/Site Plan.** If required a 90% complete informational map or site plan of the Project Property with locations of all easements to be released, new easements proposed for both Interconnection Customer and IPC, existing IPC lines to be crossed by Interconnection Customer's facilities, Interconnection Customer's lease and easement areas (if any), access roads, and any other features or elements requested to be included by IPC to facilitate review and processing of the project documents
2. **Right of Entry Agreement.** A Right-of-Entry Agreement will allow Idaho Power to conduct necessary studies and review of the property and substation lands to determine feasibility for development. This document is required to be signed by the underlying property owner as soon as possible and will allow the preliminary stages of project development to commence pending completion of the transfer of substation lands to Idaho Power.
3. **Purchase and Sale Agreement – Warranty Deed – Access Easement – Power Line Easements.** Idaho Power requires the substation land be provided in a form of fee ownership acceptable to Idaho Power. A Purchase and Sale Agreement provides the terms for the fee ownership transaction. The Purchase and Sale Agreement includes a Warranty Deed for the transfer of the substation land to Idaho Power, a form of Access Easement for access to the substation land, and forms of transmission and distribution easements.
4. **Land Division (if needed).** Should a division of land be necessary to create a new Fee Ownership Parcel, Interconnection Customer shall submit application to the proper local jurisdiction and complete all requirements to finalize the creation of a new Fee Ownership Parcel in IPC's name. Interconnection Customer shall provide final approval documentation to IPC.
5. **Title Insurance.** Title report and American Land Title Association (A.L.T.A.) extended owners' pro forma policy of title insurance for the amount of the value of the Fee Ownership Parcel and access easement areas. Interconnection Customer shall provide proof and information to establish the value of the property to be insured. IPC will review the title policy pro forma and will advise of any necessary title mitigation measures to ensure clear and unencumbered title to the Fee Ownership Parcel and access easement areas. Title mitigation measures shall be performed by Interconnection Customer at Interconnection Customer's sole cost and expense. Title policy to include endorsements as required by IPC at Interconnection Customer's sole cost and expense. Interconnection Customer to provide an electronic copy of all exceptions to title

insurance for IPC review. Interconnection Customer to provide Idaho Power with a final A.L.T.A. extended owners' policy of title insurance.

6. **Survey.** An A.L.T.A. survey of the Project property with all existing IPC easement rights and facilities identified. The A.L.T.A. survey shall include and identify all proposed land transaction areas. Interconnection Customer shall provide an A.L.T.A. survey of the Fee Ownership Parcel to be conveyed to IPC and all Land Transactions.
7. **Surveyed Legal Descriptions and Maps.** Written legal description and map for each Land Transaction Document, stamped and signed by a licensed surveyor. Each legal description and map are to be submitted to and approved by IPC's surveyor. See IPC survey requirements in Appendix B, attached hereto and made a part hereof.
8. **Phase I Environmental Analysis.** A Phase I environmental analysis (Phase I EA) of Interconnection Customer's Project property (whether fee-owned, leased, or on an easement premises) for IPC review. The Phase I EA shall provide a map indicating the location of the IPC Interconnection Facilities in relation to any identified areas of concern. Interconnection Customer shall provide a Phase I EA in IPC's name with warranties for IPC.
9. **Public Lands Permits or Authorizations (if needed).** Should any agency lands, rights-of-way, etc. be affected by the granting of land and easement rights to Idaho Power, Developer shall be responsible to any secure necessary agency authorizations or permits in Idaho Power's name, at Developer's sole cost and expense. Developer shall be responsible to ensure all conditions of approval are satisfied, fees are paid, etc.
10. **Land Use Permits or Authorizations.** The Interconnection Customer shall secure all necessary local jurisdiction, state, and/or federal land use authorizations and permits, including conditional use permits, for the IPC Interconnection Facilities, access road, new transmission and distribution lines, buildings, and all facilities in support of Interconnection Customer's Project, as required by local, state or federal entities. A copy of each authorization pertaining to IPC facilities shall be provided to IPC.
11. **Costs.** Any costs pertaining to the above items shall be at the Developer's sole cost and expense.
12. **Miscellaneous Documents.** Other miscellaneous documents as necessary for the project – such as Memorandums of Agreement/Understanding, etc.

Appendix D

Table D1 is a summary of the Contingent Facility upgrades required to be complete for GI #66.

Contingent Facility:	Estimate	Estimated Date
GI#530 (#567, #588, and #604) project to upgrade the original [REDACTED] double circuit line with 1272 MCM ACSR Bittern Conductor.	\$4,442,580	03/2025

Table D1: Contingent Facility Upgrades Required

The identified contingent facility upgrades for GI #530 (also identified in GI #567, GI #588 and GI #604), are required to be completed prior to the interconnection of the Project. The construction of the contingent facility upgrades identified for GI #530/GI #567/GI #588 and GI #604 have been advanced for senior-queued project #567. Due to this advancement, the contingent facility upgrades are expected to be completed in March 2025 and are not available to be further advanced as of the date of this report.