

Final Transitional Cluster Study Report

[REDACTED] #730
450 MW Solar and Energy Storage
Morrow County, OR

January 28, 2025

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1. Study Overview

1.1 Introduction

██████████ (Interconnection Customer) contracted with Idaho Power Company (IPC) to perform a Transitional Cluster Study (TCS) for interconnection of the proposed 450 MW ██████████ #730 (Project) to IPC’s Boardman to Hemingway 500kV transmission line, which is jointly owned with PacifiCorp (PAC). The Project was requested to be studied for Energy Resource Interconnection Service (ERIS) and was included in the transitional Cluster Area 6 (CA6).

In accordance with Section 5.1.1.2 of IPC’s Large Generator Interconnection Procedures (LGIP), this final Transitional Cluster Study Report (FTCSR) is specific to the Project and documents the basis for, and results of, the TCS for the Project. The FTCSR provides a non-binding estimate of the cost of—and schedule for—equipment, engineering, procurement, and construction work required to implement the conclusions of the interim Transitional Cluster Study Report (ITCSR) to connect the Project physically and electrically to the Transmission System. In conjunction with the ITCSR dated July 19, 2024, this report satisfies the final TCS requirements of IPC’s LGIP.

This FTCSR 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 FTCSR. Unless and until a Large Generator Interconnection Agreement (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 FTCSR. An LGIA under IPC’s Open Access Transmission Tariff (OATT) between Interconnection Customer and IPC for the Project will be prepared following finalization of this FTCSR. The LGIA will be a definitive agreement that contains terms and conditions that supersede this FTCSR.

1.2 Study Assumptions

- For ERIS, Interconnection Customer’s ability to inject its Large Generating Facility output beyond the Point of Interconnection (POI) will depend on the existing capacity of IPC’s Transmission System at such time as a transmission service request is made that would accommodate such delivery. Transmission Service may require the construction of additional Network Upgrades.
- Senior- and equally queued Interconnection Requests that were considered in this study are listed in Section 3.1. If any of these Interconnection Requests are withdrawn, IPC reserves the right to restudy this Project, and the results and conclusions could significantly change.
- The following IPC planned system improvements were assumed in service:
 - Boardman to Hemingway (B2H) 500kV transmission line (2027)

- 50% series capacitance compensation on the Kinport to Midpoint 345kV transmission line (Q2 2026)
- Midpoint Substation T502 500:345kV transformer (Q2 2026)
- Hemingway to Bowmont 230kV transmission line (Q2 2026)
- Bowmont to Hubbard 230kV transmission line (Q4 2026)
- Midpoint to Hemingway #2 500kV transmission line (2028)
- This report is based on information available at the time of study. Interconnection Customer is responsible to check IPC's OASIS site and website regularly for Generation Interconnection and Transmission System updates:
 - OASIS (<https://www.oasis.oati.com/ipco/>)
 - Planning and Electrical Projects (<https://www.idahopower.com/energy-environment/energy/planning-and-electrical-projects/>)

1.3 No Transmission Service

This FTCSR is a study of a request for ERIS as defined in Section 1 IPC's LGIP. This FTCSR identifies the facilities necessary to interconnect the Project with IPC's Transmission System and be eligible to deliver the Project's output using the existing firm or non-firm capacity of the Transmission System on an "as available" basis. ERIS does not in and of itself convey any right to transmission service or to deliver electricity to any specific customer or Point of Delivery.

The battery energy storage system (BESS) component of this Project was studied for grid-charging. This FTCSR identifies the facilities necessary to interconnect the Project such that grid-charging can be achieved. The grid-charging results do not convey any right to transmission service for, or constitute an agreement to allow, the BESS to charge from the grid. Additional agreements (e.g., Transmission Service Agreement or Battery Services Agreement) external to the Generation Interconnection study process must be sought prior to the Project commencing any grid-charging activities.

2. Interconnection Facilities and Upgrades

2.1 Interconnection Customer's Interconnection Facilities

General Facility Description

The proposed Project will consist of a [REDACTED] photovoltaic plant with [REDACTED] BESS in Morrow County, Oregon and interconnect at a single Point of Interconnection (POI) on IPC's Boardman to Hemingway 500kV transmission line ([REDACTED]). The total Project output as studied is 450 MW.

Interconnection Customer's Interconnection Facilities are defined in Section 1 of IPC's LGIP as all facilities and equipment located between the Generating Facility and the Point of Change of Ownership (POCO), including any modification, addition, or upgrades to such facilities and equipment. Interconnection Customer is responsible for funding and constructing Interconnection Customer's Interconnection Facilities, including the gen-tie line and facilities to the POCO.

Interconnection Customer's Interconnection Facilities are located in Township [REDACTED], Range [REDACTED] and are approximately [REDACTED] away from Transmission Provider's Interconnection Facilities (IPC's Interconnection Facilities). Interconnection Customer will install disconnect switches, distribution collector system, transformers, controllers, appropriate grounding measures, and associated auxiliary equipment. The [REDACTED] main step-up transformer(s) are [REDACTED] transformers. The proposed [REDACTED] transformers specified in the Interconnection Request should provide an adequate ground return path for transmission line protection/relaying.

Interconnection Customer will build facilities to the POCO, including a transmission line with a minimum 24-count optical ground wire (OPGW) from Interconnection Customer's Interconnection Facilities to IPC's Interconnection Facilities. Interconnection Customer is responsible to mirror IPC's System Protection relays to include dual SEL-411L installation for protection of the interconnection inertia.

Point of Change of Ownership

The POCO for the Project will be at the first structure outside the interconnection station (POI Station). The structure at the POCO will be part of Interconnection Customer's Interconnection Facilities. The jumper will be part of IPC's Interconnection Facilities. The following drawing provides generic information and standard requirements for the POCO.

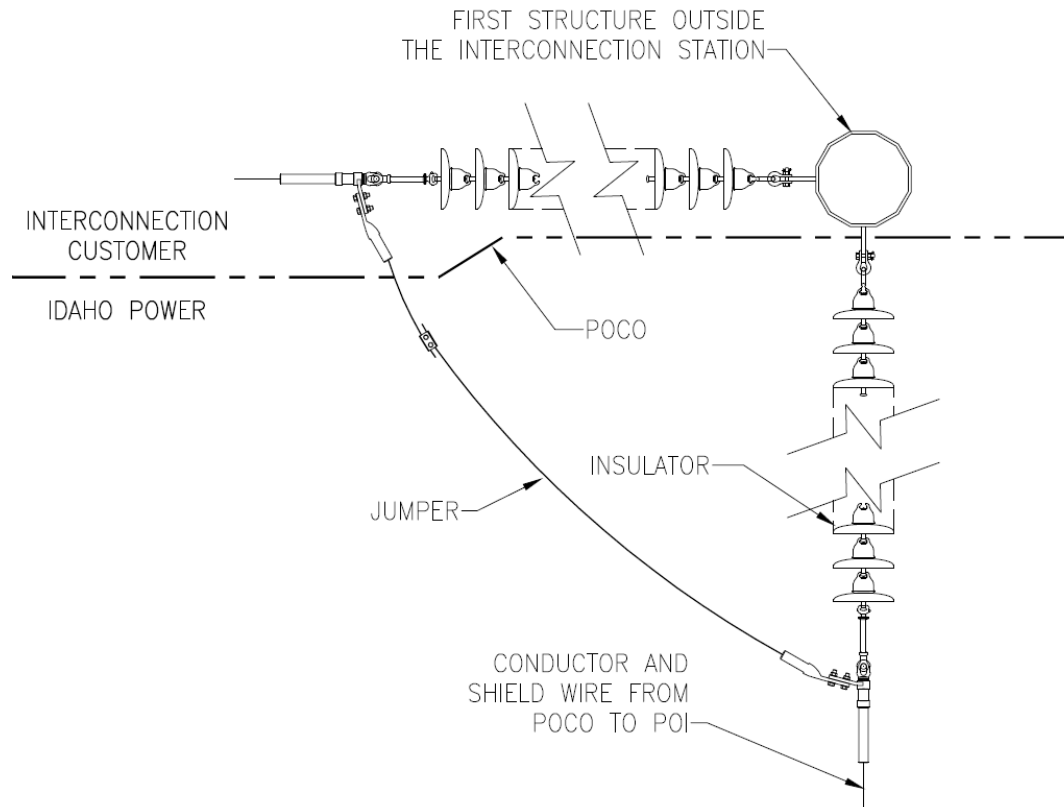


Figure 1

Generic Point of Change of Ownership (POCO) configuration.

Note the following related to the POCO:

- The first structure outside the POI Station shall be designed as follows:
 - Vertical construction
 - 90-degree max line angle
 - Steel
 - IPC phase spacing
- Interconnection Customer's OPGW shall terminate at an Interconnection Customer-provided splice box on the structure.
- Interconnection Customer shall inform IPC of the conductor size.
- IPC and Interconnection Customer shall coordinate phase configuration (e.g., 321, 213, etc.).

- Insulator parts shown in the diagram are for representation only; actual parts used will be dependent on final design.

2.2 Transmission Provider's Interconnection Facilities

Transmission Provider's Interconnection Facilities (hereinafter referred to as IPC's Interconnection Facilities) are defined in Section 1 of IPC's LGIP as all facilities and equipment owned, controlled, or operated by IPC from the POCO to the POI, including any modifications, additions, or upgrades to such facilities or equipment. In accordance with Section 4.2.1 of IPC's LGIP, costs for IPC's Interconnection Facilities are directly assigned to Interconnection Customer and are not reimbursable.

Point of Interconnection

The Project's POI will be at a new [REDACTED] POI Station on Interconnection Customer's requested POI of the Boardman to Hemingway 500kV transmission line. The preliminary configuration for the POI is on IPC's side of air-break switch [REDACTED]. A drawing detailing the configuration is attached as Exhibit 1. This configuration will be finalized during construction, and the final configuration will be captured in an LGIA amendment, if necessary.

Metering

All metering for the Project will be installed, configured, and maintained in accordance with IPC's publicly posted [Facility Interconnection Requirements for Transmission Systems](#), as may be updated from time to time.

IPC's Interconnection Facilities

To allow interconnection of the Project, IPC will install the following facilities up to the POCO:

- [REDACTED] ION 8650A meter
- [REDACTED] dead-end structures
- [REDACTED] air-break switch
- [REDACTED] current transformers (CT)
- Required foundations, bus, bus supports, and fiber communication equipment
- The last span of the Project's gen-tie line, including insulators, conductor, and associated hardware

IPC will install equipment to collect and transmit Phasor Measurement Unit (PMU) data to IPC. The communication circuits required for this data transmission are described in Section 5.2 of this FTCSR. The data can be made available to Interconnection Customer on request.

The minimum acceptable PMU message rate is thirty (30) samples 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

Table 1

Transmission Provider Interconnection Facilities

Facility Description	Cost Allocation	Unloaded Cost Estimate
Interconnection Facilities	GI #730—100%	\$1,595,276

2.3 Substation Network Upgrades

Substation Network Upgrades are defined in Section 1 of IPC’s LGIP as Network Upgrades that are required at the substation located at the POI; this includes all switching stations. In accordance with Section 4.2.1(a) of IPC’s LGIP, costs for Substation Network Upgrades are allocated per capita to each Generating Facility interconnecting at the same substation. This section includes both Substation Stand Alone Network Upgrades (SANU) and Substation Network Upgrades, the actual costs of which are reimbursable.

Substation Stand Alone Network Upgrades

SANUs are defined in Section 1 of IPC’s LGIP as Network Upgrades that Interconnection Customer may construct without affecting day-to-day operations of the Transmission System during their construction. Substation SANUs must be required for only a single Interconnection Customer in the Cluster, and no other Interconnection Customer in that Cluster is required to interconnect to the same Substation Network Upgrades.

The following Substation SANUs are required for this Project:

- A new fenced three-position [REDACTED] double breaker double bus POI Station
 - Approximately [REDACTED] pad
 - Two entrance gates and driveway aprons

- New control building
- [REDACTED] lattice microwave tower
- [REDACTED] line bays
- [REDACTED] steel dead-end structures
- [REDACTED] circuit breakers
- [REDACTED] circuit breakers with pre-insertion resistors (350 ohms)
- [REDACTED] air-break switches
- [REDACTED] capacitance coupled voltage transformers (CCVT)
- Associated bus supports, foundations, relaying, communications, and control equipment in the station yard and building
- [REDACTED] [REDACTED] line and neutral reactors¹
- [REDACTED] lines series capacitor
- Digital Fault Recorder (DFR)

This construction is contingent upon the successful purchase of property by Interconnection Customer for IPC.

Table 2
Substation Standalone Network Upgrades

Facility Description	Cost Allocation	Unloaded Cost Estimate
POI Station	GI #730—100%	\$74,383,056

Substation Network Upgrades

No Substation Network Upgrades were identified for this Project.

2.4 System Network Upgrades

System Network Upgrades are defined in Section 1 of IPC’s LGIP as Network Upgrades that are required beyond the substation located at the POI. In accordance with Section 4.2.1(b) of IPC’s LGIP, costs for each specific System Network Upgrade are allocated based on proportional

¹ This scope assumes new neutral reactors and series capacitor are procured and installed at the POI Station. There is a potential opportunity to move the existing neutral reactors and series capacitor from [REDACTED], which may provide cost savings but may also require an increased risk tolerance for extended outages.

impact of each individual Generating Facility in the TCS. This section includes both System SANU and System Network Upgrades, the actual costs of which are reimbursable.

System Stand Alone Network Upgrades

SANUs are defined in Section 1 of IPC's LGIP as Network Upgrades that Interconnection Customer may construct without affecting day-to-day operations of the Transmission System during their construction. System SANUs must be required for only a single Interconnection Customer in the Cluster, as indicated under IPC's Proportional Impact Method as outlined in Section 3 of IPC's Generation Interconnection Business Practices and Section 4.2.1 of IPC's LGIP.

No System SANUs were identified for this Project.

System Network Upgrades

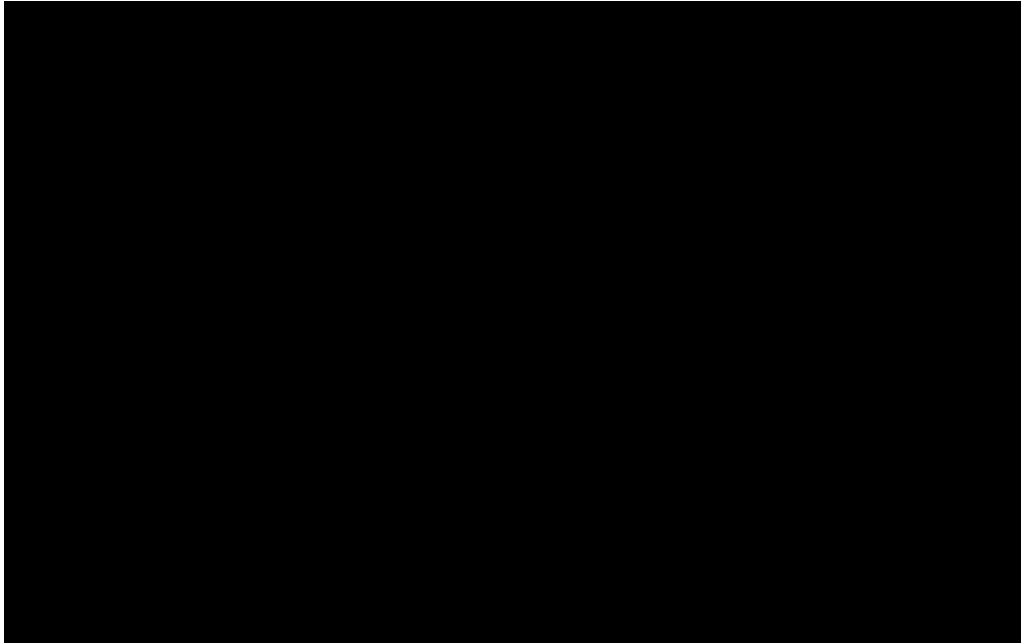
The following System Network Upgrades are required for this Project:

Microwave Communication Site

- Construct a new microwave communication site to meet geographic diversity communication requirements
 - Approximately [REDACTED] yard
 - New control building
 - [REDACTED] lattice microwave tower
 - [REDACTED] dish
 - [REDACTED] waveguide
 - Associated foundations, communications, and control equipment in the site yard and building

[REDACTED] Transmission Line Cut-in at POI Station

- Cut in the [REDACTED] line from [REDACTED] to the new POI Station
 - All structures will be multi-pole engineered steel structures on drilled pier concrete foundations
 - [REDACTED] conductor
 - [REDACTED] new 96 count OPGW

**Figure 2**

cut-in.

Table 3

System Network Upgrades

Facility Description	Cost Allocation	Unloaded Cost Estimate
Microwave Comm Site	GI #730—100%	\$2,093,853
cut-in at POI Station	GI #730—100%	\$5,120,136
TOTAL Unloaded Costs		\$7,231,989

Additional Studies

Since the Project is connecting on a series compensated line (Boardman to Hemingway 500kV), a Sub-Synchronous Control Interaction (SSCI) study will be required. In addition to the SSCI, the Boardman to Hemingway 500kV transmission line is expected to operate with single-pole switching capability; thus, the Project will be required to complete a switching study. Both studies would be performed as LGIA milestones and may result in additional System Network Upgrades.

2.5 Distribution Upgrades

Distribution Upgrades are defined in Section 1 of IPC's LGIP as additions, modification, and upgrades to IPC's Distribution System at or beyond the POI to facilitate interconnection of the Generating Facility. In accordance with Article 11.3 of IPC's LGIA, costs for Distribution Upgrades are directly assigned to Interconnection Customer.

Note that the identified Distribution Upgrades do not include distribution facilities to support local service to Interconnection Customer’s Interconnection Facilities, Generating Facility, auxiliary load, etc. See the Local Service portion of Section 5.2 of this FTCSR for additional information on local service requirements.

Due to the station location, station service would be provided by the local utility that serves the area. Interconnection Customer will be responsible for all expenses related to the initiation of the service, including all necessary distribution work identified by the local utility. Cost of this work is not included in the estimate provided in this report. No Distribution Upgrades on IPC’s system were identified for this Project.

2.6 Estimated Costs

The following good faith estimates are provided in 2024 US 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 performed by IPC and its agents, under the terms and subject to the conditions included in any LGIA executed by IPC and Interconnection Customer. Costs for work being performed by Interconnection Customer and/or Affected Systems are not included.

In accordance with Section 11.3 of IPC’s LGIP, an LGIA deposit equal to 20% of the estimated Network Upgrade costs identified below (or as updated in the LGIA) must be received or other arrangements acceptable to IPC must be made with IPC’s Credit Department upon LGIA execution.

Additional security for the remaining Interconnection Facilities and Network Upgrades is estimated to be required as outlined in the Estimated Milestones section of this FTCSR.

There are identified contingent facility Network Upgrades and/or planned system improvements that are required to be completed prior to the interconnection of this Project. Details on the contingent facilities identified are in Section 3.2 of this FTCSR. For this and other reasons, the cost estimates included in this FTCSR are estimates only, are based on currently known or assumed facts that may not be accurate or materialize, and are subject to change.

Table 4

Estimated cost of Interconnection Facilities and Network Upgrades.

Description	Ownership	Cost Estimate
<i>IPC Interconnection Facilities:</i>		
Facilities between the POCO and POI as described in Section 2.2	IPC	\$1,595,276
Contingency 20%		\$319,055
Overheads 3.5%		\$67,002
Total		\$1,981,333
<i>Stand-Alone Substation Network Upgrades:</i>		

Description	Ownership	Cost Estimate
Stand Alone upgrades to POI Station as described in Section 2.3	IPC	\$74,383,056
Contingency 20%		\$14,876,611
Overheads 3.5%		\$3,124,088
Total		\$92,383,756
System Network Upgrades:		
Upgrades to Transmission System as described in Section 2.4	IPC	\$7,213,989
Contingency 20%		\$1,442,798
Overheads 3.5%		\$302,988
Total		\$8,959,774
	GRAND TOTAL	\$103,324,863

3. Contingent Facilities and Affected Systems

3.1 Generation Interconnection Queue

Interconnection Customer has applied to interconnect the Project to IPC’s transmission system for an injection of 450 MW at a single POI at 500kV on IPC’s Boardman to Hemingway 500kV transmission line.

If a senior- or equally queued Interconnection Request that is responsible for constructing Network Upgrades should withdraw from the queue or otherwise be terminated, junior- or equally queued Interconnection Requests in the electrically relevant area may be restudied and assigned additional Network Upgrades identified as necessary to facilitate their interconnection.

As of the date of this report, Interconnection Requests #629, #632, #634, #660, and #696 are senior-queued Interconnection Requests to the Project. Additionally, as of the date of this report, Interconnection Requests #704, #708, #710, #716, #718, #719, #723, #724, #725, #730, #731, #732, and #737 are in the TCS with the Project and are therefore equally queued. The recommended upgrades for these senior- and equally queued Interconnection Requests were assumed to be completed prior to the interconnection of the Project. Costs related to Network Upgrades could be passed on to the Project should changes be made to one or more of these senior- or equally queued Interconnection Requests.

3.2 Contingent Facilities and Planned System Improvements

Contingent Facilities

Contingent Facilities are defined in Section 1 of IPC’s LGIP as those unbuilt Interconnection Facilities and Network Upgrades upon which the Interconnection Request’s costs, timing, and study findings are dependent, and if delayed or not built, could cause a need for restudies of the Interconnection Request or a reassessment of the Interconnection Facilities and/or Network Upgrades and/or costs and timing.

No Contingent Facilities were identified in the ITCSR dated July 19, 2024.

Contingent Transmission Provider Planned System Improvements

The following table details the identified contingent IPC planned system improvements that are required to be completed prior to the interconnection of this Project, as identified in the ITCSR dated July 19, 2024.

Table 5

Contingent Transmission Provider planned system improvements.

Planned System Improvement	Outage	Estimated In-Service
Boardman to Hemingway 500kV line		2027

Planned System Improvement	Outage	Estimated In-Service
50% series capacitance compensation on the Kinport to Midpoint 345kV line	[REDACTED]	2026
Midpoint T502 500kV/345kV	[REDACTED]	2026
Hemingway to Bowmont 230kV line	[REDACTED]	2026
Bowmont to Hubbard 230kV line	[REDACTED]	2026
Rebuild Mountain Air Wind Park to Rattlesnake 230kV line	[REDACTED]	2028

3.3 Affected Systems

Affected System is defined in Section 1 of IPC's LGIP as an electric system other than IPC's Transmission System that may be affected by the proposed interconnection.

IPC has identified Bonneville Power Administration (BPA) and PacifiCorp (PAC) as Affected Systems. A copy of this report will be shared with each Affected System, and an Affected System Study may be required. If an Affected System Study is required, Interconnection Customer will work directly with the Affected System(s) to complete the necessary study.

IPC is aware that an Affected System has a proposed substation very near the proposed POI for this project. It is likely that the Substation Network Upgrades and Interconnection Facilities may be modified during the Affected System study process, which would require a restudy of the proposed interconnection.

4. Estimated Milestones

4.1 Milestones Overview

The milestone dates in this section 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 Commercial Operation Date (COD). 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 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 COD 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. For these and other reasons, IPC does not warrant or guarantee the estimated milestone dates, which are estimates only.

In the event Interconnection Customer is unable to meet the dates as outlined in the ultimate LGIA, Interconnection Customer may request suspension of up to three years pursuant to Article 5.16 of the LGIA. Upon suspension of work pursuant to Article 5.16 of the LGIA, the applicable construction duration, timelines, and schedules set forth in the ultimate LGIA shall be likewise suspended. The estimated milestones in the following table may be updated and revised for inclusion in the LGIA in light of subsequent developments and conditions.

4.2 Estimated Milestones Detail

Interconnection Customer has requested a COD of June 1, 2027. IPC has developed the milestone dates in good faith considering many factors, including the requested COD, known long-lead times, and the schedule of other in-progress projects. The estimated milestone schedule captured in the following table does not align with the requested COD.

These milestones will begin, and the milestone 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 in the ultimate LGIA 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 the ultimate LGIA by the specified date(s) may result in the loss of milestone dates and construction schedules set forth below.

Table 6
Estimated Milestones

Estimated Date	Responsible Party	Milestone
30 Calendar Days following receipt of draft LGIA	Interconnection Customer	LGIA Execution Provide the following: <ul style="list-style-type: none"> • Executed LGIA • Demonstration of continued Site Control • LGIA deposit (20% of estimated Network Upgrade costs in cash, or arrangements acceptable to IPC can be made with IPC's Credit Department) • Reasonable evidence to show one or more of the development milestones as per LGIP Section 11.3 has been achieved
10 Business Days following LGIA Execution	Interconnection Customer	Provide Certificate of Insurance
15 Business Days following LGIA Execution	Interconnection Customer	Project Initiation IPC receives Notice to Proceed for design, procurement, and construction
12 months following Project Initiation	Interconnection Customer ²	Land Procurement Transmission Provider's Interconnection Facilities and new microwave site location identified and Land Transaction Documents executed
12 months following Land Procurement	Interconnection Customer	Additional security required for Interconnection Facilities and Network Upgrade material
24 months following Land Procurement	IPC	Engineering and Design complete
24 months following Land Procurement	Interconnection Customer	Easements and permits procured for IPC site and microwave site; construction will not begin until easements and permits are in place Detailed in Appendix A & B attached
48 months following Project Initiation ³	IPC	Long Lead Material procured/received
18 months prior to IPC Commissioning	Interconnection Customer	Provide updated EMT models to complete modeling in accordance with IPC's OATT Attachment O and to perform SSCI study
6 months prior to IPC Commissioning	IPC	Network modeling submission Failure to submit by given lead time will result in project delay

² If Interconnection Customer elects to have IPC procure the land for the Transmission Provider Interconnection Facilities, Interconnection Customer should notify IPC as soon as possible to prevent project delay. Note that additional time may be required for IPC to procure the land.

³ Construction cannot be complete until long-lead items are received. Long lead items may become the critical path if Land Procurement takes less time than assumed in the Estimated Milestones.

Estimated Date	Responsible Party	Milestone
180 Calendar Days prior to Initial Synchronization	Interconnection Customer	Provide a completed copy of the Large Generating Facility data requirements contained in Appendix 1 of the LGIP per LGIA Article 24.3
180 Calendar Days prior to Initial Synchronization	Interconnection Customer	Provide initial specifications for Interconnection Customer's Interconnection Facilities per LGIA Article 5.10.1
90 Calendar Days prior to Initial Synchronization	Interconnection Customer	Provide final specifications for Interconnection Customer's Interconnection Facilities per LGIA Article 5.10.1
3 months prior to Initial Synchronization	Interconnection Customer	Provide notification of local Balancing Authority per LGIA Article 9.2
2028	IPC	Contingent Transmission Provider planned system improvements in service (Table 5)
59 months following Land Procurement	IPC	Construction of IPC's Interconnection Facilities and Network Upgrades Complete
1 month following completion of all previous construction milestones	IPC	Commissioning of IPC's Interconnection Facilities and Network Upgrades Complete Back feed power is available
Any time after Commissioning Complete Note: Switching request must be made a minimum of 5 days prior to In-Service Date	Interconnection Customer	In-Service Date Switch at the POI can be closed to obtain back feed power
TBD	Interconnection Customer	Initial Synchronization Date Interconnection Customer Trial Operation begins; test energy can be generated only if the IC has arranged for the delivery of such energy
30 Calendar Days prior to COD	Interconnection Customer	Notify IPC of COD
Prior to COD	Interconnection Customer	Provide as-built or as-tested performance data that differs from the initial Large Generating Facility data requirements contained in Appendix 1 of the LGIP per LGIA Article 24.4
TBD	Interconnection Customer	COD
Within 30 Calendar Days following COD	Interconnection Customer	Submit completed Appendix E of the LGIA confirming completion of Trial Operation and COD
120 Calendar Days following COD	Interconnection Customer	Provide as-built drawings, information, and documents for Interconnection Customer's Interconnection Facilities per LGIA Article 5.10.3

5. Interconnection Details

5.1 Generating Facility

The Generating Facility is defined in Section 1 of IPC’s LGIP as Interconnection Customer’s device(s) for the production and/or storage for later injection of electricity identified in the Interconnection Request but shall not include Interconnection Customer’s Interconnection Facilities.

Interconnection Customer’s system will be constructed as follows:

1. The photovoltaic inverter system will comprise of [REDACTED] [REDACTED] inverters.
2. The BESS inverter system will comprise of [REDACTED] [REDACTED]
3. 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 POI.

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

Operating Assumptions for Battery Energy Storage System

The BESS component of the Project was studied charging from the grid in an unstressed case and limited local area N-1 contingency analysis. There may be times during the year where system load in the local area will prevent charging of the BESS from the grid at full capacity; for example, a forced outage that would require IPC to curtail charging. Should the Project require non-curtable grid charging, firm Point-to-Point transmission service from the energy market/source to the BESS would be required.

No upgrades were identified for the Project in the charging study. However, the ability to charge from Idaho Power’s Balancing Area is dependent upon availability of transmission service across Path 14, of which Boardman to Hemingway is a part. A Transmission Service Request should be submitted to determine transmission availability to grid charge.

5.2 Other Facilities Provided by Interconnection Customer

Telecommunications

Interconnection Customer is not responsible for any third-party communication circuits for IPC’s Interconnection Facilities. Any additional telecommunication requirements, including OPGW on the gen-tie line, will be the sole responsibility of Interconnection Customer.

Ground Fault Equipment

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

Generator Output Limit Control

Interconnection Customer will install equipment to receive/transmit signals from IPC Load Serving Operations for Generation Output Limit Control (GOLC)—see Section 5.5 of this FTCSR. IPC’s recommended method of communication for GOLC is via fiber between the Interconnection Facilities and the Project.

Local Service

Interconnection Customer is required to take local service from the local service provider as a retail customer. Interconnection Customer is responsible to arrange for local service to Interconnection Customer’s Interconnection Facilities and/or Generating Facility.

If receiving local service from IPC, Interconnection Customer shall coordinate such requirements with IPC so that local service can be provided in accordance with the provisions contained within the applicable service schedule. The service schedule and functional settlement will be determined during construction of the Project.

Property

This Project will require a new [REDACTED] GI #730 POI Station to be constructed to interconnect Interconnection Customer’s interconnection transmission line (gen-tie line) and the Boardman to Hemingway 500kV transmission line. It is preferred that Interconnection Customer acquire the approximately [REDACTED] of new land and then transfer it to IPC in accordance with the land transaction document requirements listed in this section.

Interconnection Customer may request that IPC procure the land, in which case, the milestone schedule may be subject to change. Regardless of whether Interconnection Customer or IPC procure the land, Interconnection Customer will be responsible for all expenses 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.

This Project will also require a new microwave site at or near a non-IPC utility station at the other end of the microwave path. IPC will acquire the property for the site, and Interconnection Customer will be responsible for the cost of acquiring necessary property for that site. Cost of the land is not included in the estimate provided in this report.

IPC’s Interconnection Facilities and associated substation, as well as the new microwave site, will be owned and maintained by IPC. Interconnection Customer, at its sole cost and expense, will provide IPC documents and services as identified in this section relating to IPC’s land rights required for IPC’s Interconnection Facilities and associated substation.

Land Transaction Documents

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

- Right of Entry Agreement
- 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 Facilities and the Project
- Completed Applications with respective fees for Release of Easements and/or Crossing Agreements that may be required for the Project
- Crossing Agreements
- Any other Project-specific documents deemed necessary by IPC

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 the earliest possible time. Refer to Appendix B for a complete reference guide to IPC's Corporate Real Estate Fee Acquisition requirements.

Upon IPC approval of all Land Transaction Documents, IPC will provide Interconnection Customer final form documents for signature by the landowner of record. Interconnection Customer shall return the 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.

Site Work

Interconnection Customer will provide property, property access, and site plan. IPC will perform land clearing and grading for IPC's Interconnection Facilities and associated substation.

Monitoring Information

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

Meteorological Data

To integrate the solar energy into IPC's system and operate IPC's solar forecasting tool, 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 Interconnection Customer's responsibility.

The data must be provided at ten (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

Generator Technical Information and Drawings

During Project design development, Interconnection Customer shall provide draft design prints containing technical information, including but not limited to impedances and equipment brand and models. After construction, Interconnection Customer shall submit to IPC all the as-built information, including prints with the latest approved technical information and commissioning test results in accordance with the timing requirements outlined in the LGIA.

5.3 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.

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 Reliability Standard PRC-024 and PRC-029, when effective.

Frequency Response Requirements

The Project 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 the Project meets the above Primary Frequency Response requirements, IPC shall not curtail the Project when such curtailments are caused by a need to comply with applicable Frequency Response reliability standards.

Momentary Cessation Requirements

Momentary cessation should not be used within the voltage and frequency ride-through curves specified in PRC-024 and PRC-029, when effective. Use of momentary cessation is not considered ride through within the No Trip zone curves of PRC-024 or mandatory and continuous operation regions of PRC-029. 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 Interconnection Customer side of the POCO only if 1) there is no impact on the operation of the transmission or distribution system, 2) the generation facilities are electrically isolated from the system via the [REDACTED] switch, and 3) a terminal clearance is issued by IPC's Load Serving Operator.

5.4 Reactive Power

The Project will be required to provide reactive power versus real power capability measured at the high side of the main power transformer that complies with IEEE 2800-2022 *IEEE Standard for Interconnection and Interoperability of Inverter-Based Resources (IBRs) Interconnecting with Associated Transmission Electric Power Systems*, or any subsequent standards as they may be updated from time to time.

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 Section 5.5 of this FTCSR.

5.5 Generation Interconnection Supervisory Data Requirements

Interconnection Communications

All supervisory data points described in this Section 5.5 of the FTCSR are to be communicated between Interconnection Customer and IPC via serial DNP 3.0 protocol. The physical transport will be fiber cables.

Interconnection Customer is responsible for this fiber connection from their PLC or other controls equipment to the POCO.

Generator Output Limit Control

The Project will be subject to reductions directed by IPC Load Serving Operations during transmission system contingencies and other reliability events. When these conditions occur, the Project will be subject to GOLC and will have equipment capable of receiving an analog setpoint via DNP 3.0 from IPC for GOLC. GOLC will be accomplished with a setpoint and discrete output control from IPC to the Project indicating maximum output allowed.

IPC requires interconnected Projects to accept GOLC signals from IPC's energy management system (EMS) when they are connected to IPC's transmission system.

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

- **GOLC Setpoint:** An analog output that contains the MW value Interconnection Customer should curtail to, should a GOLC request be made via the GOLC On/Off discrete output Control point.
- **GOLC Setpoint Feedback:** 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.
- **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), Interconnection Customer is free to run to maximum output.
- **GOLC On/Off Feedback:** 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.

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 ten (10) minutes.

Voltage Control

IPC requires interconnected Projects to accept voltage control signals from IPC's EMS when they are connected to IPC's transmission system.

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

- **Voltage Control Setpoint:** An analog output that contains the voltage Interconnection Customer should target 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.
- **Voltage Control Setpoint Feedback:** An analog input feedback point must be updated to reflect the Voltage Control Setpoint by the SGC upon the SGC's receipt of the voltage setpoint change with no intentional delay.

The control will always be active; there is no digital supervisory point like the GOLC On/Off control above.

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

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.

Auxiliary Data Points

Additional status points relating to local weather, equipment, and other supervisory information is required in accordance with the following Generation Interconnection Supervisory Data Table. This table includes a comprehensive list of data points to be sent and received via the fiber connection described in the Interconnection Communications portion of this Generation Interconnection Supervisory Data Requirements section of the FTCSR.

Table 7

Transmission-interconnected solar Generation Interconnection Supervisory Data Table.

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	52A Interconnection Customer Main Breaker (if present)	Open/Closed	Sourced at substation
2	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	EMS COMM 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
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						

Table 8
BESS Generation Interconnection Supervisory Data Table.

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	52A Interconnection Customer Main Breaker (if present)	Open/Closed	Sourced at substation
2	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	EMS COMM 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

Analog Inputs to IPC (DNP Obj. 30, Var. 2)							
Index	Description	Raw High	Raw Low	EU High	EU Low	EU Units	Comments:
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	SPARE						
4	SPARE						
5	SPARE						
6	SPARE						
7	SPARE						
8	SPARE						
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						

Analog Outputs to Interconnection Customer (DNP Obj. 41, Var. 2)							
Index	Description	Raw High	Raw Low	EU High	EU Low	EU Units	Comments:
9	SPARE						

Appendix A

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 B

IPC Parcel Acquisition Requirements for Interconnection Customers

Interconnection Customer Land Requirements for Development of Transmission Provider's Interconnection Facilities—Fee Acquisition

These requirements were developed by Idaho Power Company's (IPC) Corporate Real Estate department. Allow a minimum of six months for land transaction portion of the Project—may be longer depending on Project specifics.

1. **Project Map/Site Plan.** 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. **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.
3. **Right of Entry Agreement.** A Right-of-Entry Agreement will allow IPC 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 IPC.
4. **Purchase and Sale Agreement – Warranty Deed – Access Easement – Power Line Easements.** IPC requires the substation land be provided in a form of fee ownership acceptable to IPC. 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 IPC, a form of Access Easement for access to the substation land, and forms of transmission and distribution easements.
5. **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.
6. **Title Commitment/Insurance.** Title report and American Land Title Association (ALTA) extended owners' *pro forma* policy of title insurance for the value of the Interconnection Facility 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 Interconnection Facility 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 IPC with a final ALTA extended owners' policy of title insurance.

7. **Survey.** An ALTA survey of the Project property with all existing IPC easement rights and facilities identified. The ALTA survey shall include and identify all proposed land transaction areas. Interconnection Customer shall provide an ALTA survey of the Fee Ownership Parcel to be conveyed to IPC and all Land Transactions.
8. **Legal Descriptions.** Written legal descriptions, stamped and signed by a surveyor licensed in the State of Idaho, are required for the substation parcel, access easement area, and all distribution/transmission line easement parcels. The written legal descriptions will be reviewed by IPC's surveyor who will advise of any necessary revisions.
9. **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) is required for IPC's review. The Phase I EA shall provide a map indicating the location of IPC's Interconnection Facilities in relation to any identified areas of concern. Interconnection Customer shall provide IPC with a Phase I EA study prepared by an independent environmental site assessment company, in IPC's name, which recognizes IPC as the purchaser of the substation parcel and User of the Phase I EA report, and which provides warranties to IPC for the substation parcel and access to easement areas. The Phase I EA study will be reviewed by IPC, and IPC will advise if a Phase II EA or other necessary actions are required based on the results of the Phase I EA study.
10. **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 IPC, Interconnection Customer shall be responsible to any secure necessary agency authorizations or permits in IPC's name, at Interconnection Customer's sole cost and expense. Interconnection Customer shall be responsible to ensure all conditions of approval are satisfied, fees are paid, etc.
11. **Land Use Permits or Authorizations.** Interconnection Customer shall be responsible to secure any necessary land use entitlements or authorizations from the local jurisdiction, local agencies, State of Idaho, or Federal or other agencies to allow the development of the substation parcel, access road and ancillary transmission or distribution lines and facilities (e.g., Conditional Use Permit from the city or county). Any such authorizations

shall be secured in IPC's name and for the benefit of IPC. IPC will require Interconnection Customer to satisfy all conditions of approval and requirements for any such entitlement or authorization. A copy of each authorization pertaining to IPC facilities shall be provided to IPC.

12. **Costs.** Any costs pertaining to the above items shall be at Interconnection Customer's sole cost and expense.
13. **Miscellaneous Documents.** Other miscellaneous documents as necessary for the Project, which may include Memorandums of Agreement/Understanding, etc.

Revision History

Date	Author	Revisions
12/26/2024	Laura Nelson	Final Transitional Cluster Study Report version 1.0 issued.
1/28/2025	Laura Nelson	Updates to Milestone table, including adjustment of Long Lead Material receipt to be associated with Project Initiation instead of Land Procurement and adding line item for expected completion of Planned System Improvements. Version 1.1.