GENERATOR INTERCONNECTION FEASIBLITY STUDY REPORT

for integration of the proposed

250 MW PROJECT (GI PROJECT #561)

to the

IDAHO POWER COMPANY ELECTRICAL SYSTEM

in

JEROME COUNTY, IDAHO

for

Report v.0

April 9, 2020

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1.0 Introduction

facilities.

to perform a Generator Interconnection Feasibility Study for the integration of the proposed 250 MW project. The Project location is in Idaho Power Company's (IPC's)
Southern Region in Jerome County, Idaho. The project latitude and longitude coordinates are approximately . The project is Generation Interconnect (GI) queue number 561 (GI #561). The project has chosen in the Feasibility Study to be studied as both an Energy Resource (ER) Interconnection Service and a Network Resource (NR) Interconnection Service.
The Project has applied to connect to the Idaho Power's transmission system for an injection of 250 MW at a single Point of Interconnection (POI) at 230kV. The POI is also applied for an alternate POI at 345kV bus.
IPC projects queue GI #530, GI #551, GI #557, and GI #560 are senior queued project in the affected area of IPC's transmission system and the facilities and subsequent cost to integrate the 250 MW GI #561 project is contingent on these projects' integration

has contracted with Idaho Power Company ("Transmission Provider")

This report documents the basis for and the results of this Feasibility Study for the GI #561 Generation Interconnection Customer. The report describes the proposed project, the determination of the project interconnection requirements and estimated costs for integration of the project to the Transmission Provider transmission system. This report satisfies the feasibility study requirements of the Idaho Power Tariff.

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2.0 Summary

The feasibility of interconnecting the GI #561 250 MW generation project to the Transmission Provider's transmission system was evaluated. GI #561 can be interconnected to the Idaho Power transmission system. The primary Point of Interconnection (POI) is located at Idaho Power's 230kV bus.

A System Impact Study is required to determine if any additional network upgrades are required to integrate this project into the IPCo transmission system and to evaluate full system impacts (thermal, voltage, transient stability, reactive margin). Generator interconnection service (either as an Energy Resource or a Network Resource) does not in any way convey any right to deliver electricity to any specific customer or point of delivery.

The GI #561 project is a combined PV and	BESS and it has been assumed that the BESS will
be charged via the PV output.	will need to demonstrate the operating
procedures and control measures which pre	vents the BESS from being charged via IPC's
transmission system. However, if the intent	is also to be able to charge the BESS via IPC's
transmission system,	will need to make an IPC Large Load Service
request.	

GI #561 will be required to control voltage in accordance with a voltage schedule as provided by Idaho Power Grid Operations. GI #561 will be required to manage the real power output of their generation project at the POI. Also, it may be beneficial for their own modeling compliance requirements, to install additional PMU devices at their facilities to monitor the generation source(s).

The total "Energy Resource Interconnection Service" generation interconnection preliminary cost estimate to interconnect the project to the primary study POI is as follows:

• Energy Resource Interconnection at proposed 230kV POI - \$1,209,648

See Section 6.5 Energy Resource Cost Estimate for the required Energy Resource facilities and cost breakdowns.

The total "Network Resource Interconnection Service" generation interconnection preliminary cost estimate to interconnect the project is as follows:

- Network Resource Interconnection Service \$1,209,648
 - This does not include costs for required facilities from senior queued GI #530, GI #551, GI #557, and GI#560 projects (See Appendix B).

See Section 7.3 Network Resource Cost Estimate for the required Network Resource facilities and cost breakdowns. The cost estimate includes a 20% contingency and 10% overhead. These are cost estimates only and final charges to the customer will be based on the actual

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construction costs incurred. It should be noted that the preliminary cost estimates do not include the cost of the customer's owned equipment.

The schedule for designing, procuring, and constructing facilities will be developed and optimized during the Facility Study should the generation interconnection customer choose to move to that study phase of the interconnection process.

3.0 Scope of Interconnection Feasibility Study

The Interconnection Feasibility Study was done and prepared in accordance with the Transmission Provider's Standard Generator Interconnection Procedures to provide a preliminary evaluation of the feasibility of the interconnection of the proposed generating project to the Idaho Power system. As listed in the Interconnection Feasibility Study agreement, the Interconnection Feasibility Study report provides the following information:

- preliminary identification of any circuit breaker short circuit capability limits exceeded because of the interconnection;
- preliminary identification of any thermal overload or voltage limit violations resulting from the interconnection; and
- preliminary description and non-binding estimated cost of facilities required to interconnect the Large Generating Facility to the IPC System and to address the identified short circuit and power flow issues.

All other proposed Generation projects prior to this project in the Generator Interconnect queue were considered in this study. A current list of these projects can be found in the Generation Interconnection folder located on the Idaho Power web site at the link shown below:

http://www.oatioasis.com/ipco/index.html.

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4.0 Contingent Facilities

GI #561 Energy Resource, ER, service at the 230kV POI is not contingent upon upgrades associated with any senior queued project.

IPC projects queue GI #530, GI #551, GI #557, and GI #560 are senior queued project in the affected area of IPC's transmission system. Idaho Power studied GI #561 with all Network Upgrades identified for GI #530, GI #551, GI #557, and GI #560 modeled as in service (Contingent Facilities). Contingent Facilities for each of these GI projects are detailed in Appendix B. Changes to senior queued projects including in-service date and withdrawal from the queue, may trigger a restudy associated with GI #561 Network Resource, NR, service, (some or all the network upgrades identified for GI #530, GI #551, GI #557, and GI #560 may be required by GI #561).

5.0 Description of Proposed Generating Project

Assumptions

The primary point of interconnection for GI #561 is the 230kV bus. Assumed GI #561 Project's maximum generation is 250 MW from the combined Photovoltaic (PV) and Battery Energy Storage System (BESS). The Project's Commercial Operation Date (COD) is December 1, 2022.

GI #561

- 1.5 Mile 230kV transmission line from 230kV bus to project
- Two 230/34.5kV GSU transformers with a 100/130/169 MVA capacity each
- Each 230/34.5kV GSU transformer will have approximately 125 MW of PV and 75 MW of BESS connected.
- All generation in voltage regulation (Reactive capability used to regulate voltage supply/absorb reactive)

6.0 Energy Resource (ER) Interconnection Service

Energy Resource (ER) Interconnection Service allows the Interconnection Customer to connect its Generating Facility to Transmission Provider's transmission system and to be eligible to deliver electric output using firm or non-firm transmission capacity on an as available basis.

The GI #561 project has applied to connect to the Idaho Power transmission system for an injection of 250 MW with a new 230kV interconnection at bus. All generation projects in the area ahead of this project in the IPC generation queue and their associated transmission system improvements were modeled in a preliminary power flow

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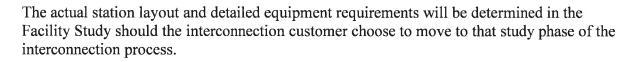
analysis to evaluate the feasibility of interconnecting GI #561.

6.1 Description of Substation/Transmission Facilities

As an Energy Resource, a Transmission Service Request will be required to determine the specific Network Upgrades required to deliver the project output to a designated point of delivery. A System Impact Study will be required to determine the specific network upgrades required to integrate the project. Listed below are the required transmission facilities to interconnect the Project.

Substation/Transmission Interconnection Facilities:

The proposed interconnection will require a new line terminal interconnection at the 230kV bus.



6.2 Description of Distribution Facilities

No distribution facilities are directly impacted by this project.

6.3 Short Circuit Study Results

The short circuit/fault duty at approximate GI #561 POI 230kV bus location (with/without GI #561 modeled) is as follows:

Fault Study (w/o GI #561)			
Location	SLG (A)	LTL (A)	3PH (A)
	30450.2	25044.8	29178.8

Fault Study (w/ GI #561)			
Location	SLG (A)	LTL (A)	3PH (A)
	32242.9	25468.6	29330.4

Studies indicate that there is adequate load and short circuit interrupting capability on the Transmission Provider's existing 230kV breakers after this project is interconnected.

6.4 Electric System Protection Results and Grounding Requirements

For 230kV line protection, the Transmission Provider's System Protection Department utilizes permissive and line differential protection schemes integrated with our existing digital

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communication infrastructure. Digital communication infrastructure for the interconnection customer's 230kV line terminal will be the responsibility of said interconnection customer.

6.5 Energy Resource Cost Estimate

In Table 1 below a summary is provided of the generation interconnection facilities and conceptual costs required to interconnect the GI #561 project to the Transmission Provider's transmission system as an Energy Resource.

GI #561 Project Energy Resource Generation Interconnection Facilities		
	Cost	
230kV Line Terminal	\$916,400	
Subtotal	\$916,400	
Contingencies (~20.0%) (1)	\$1,099,680	
Subtotal	\$1,099,680	
Overheads (~10%) (2)	\$109,968	
Energy Resource – Total Estimated Cost (3)	\$1,209,648	

Table 1. Estimated GI #561 Project's Energy Resource Generation Interconnection Costs

- (1) Contingency is added to cover the unforeseen costs in the estimate. These costs can include unidentified design components, material cost increases, labor estimate shortfalls, etc.
- (2) Overhead costs cover the indirect costs associated with the Project.
- (3) This cost estimate includes direct equipment, material, labor, and overheads as shown.
 - Note that these estimates do not include the cost of the customer's equipment/facilities or required communication circuits for SCADA, PMU, and metering.
 - Note that the overhead rates are subject to change during the year.
 - These are estimated costs only and final charges to the customer will be based on the actual construction costs incurred.
 - These are non-binding conceptual level cost estimates that will be further refined upon the request and completion of the Facility Study.

The schedule for designing, procuring, and constructing facilities will be developed and optimized during the Facility Study should the generation interconnection customer choose to move to that study phase of the interconnection process.

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7.0 Network Resource (NR) Interconnection Service

Network Resource Interconnection Service allows the Interconnection Customer to integrate its Generating Facility with the Transmission Provider's Transmission System in a manner comparable to that in which the Transmission Provider integrated its generating facilities to serve native load customers. The transmission system is studied under a variety of conditions to determine the transmission improvements/upgrades which are necessary. Network Resource Interconnection Service in and of itself does not convey Transmission Service.

7.1 Description of Power Flow Cases

For the Network Resource Interconnection Service study, three power flow cases were used to study the Transmission Provider's transmission system with westbound and eastbound transmission flows to determine the required Network Transmission Upgrades.

The WECC 2019 Heavy Summer case was chosen as a power flow base case for the study. The case was modified to represent a summer month with high west to east (eastbound) transfers across Midpoint West.

For the second case, a WECC 2019 Light Winter operating case, was modified to represent a shoulder month condition with high east to west (westbound) transfers across Midpoint West.

For the third case, a WECC 2019 Light Summer case was modified to represent a shoulder month with high west to east transfers f(eastbound) transfers across Borah West.

7.2 Network Resource Transmission Upgrades

From the power flow/contingency analysis, no additional Network Transmission upgrades were identified for the integration of GI #561 in addition to the Energy Resource generation interconnection facilities. A System Impact Study will ultimately be required to determine the specific network upgrades required to integrate the project.

IPC projects queue GI #530, GI #551, GI #557, and GI #560 are senior queued project in the affected area of IPC's transmission system. Idaho Power studied GI #561 with all Network Upgrades identified for senior queued projects as in service (Contingent Facilities). Contingent Facilities for each of these GI projects are detailed in Appendix B. Changes to senior queued projects including in-service date and withdrawal from the queue, may trigger a restudy associated with GI #561 Network Resource, NR, service, (some or all the network upgrades identified for GI #530, GI #551, GI #557, and GI #560 may be required by GI #561).

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7.3 Network Resource Cost Estimate

Table 2 below is a summary of the Network Transmission generation interconnection facilities and conceptual costs required to interconnect the GI #561 project to the Transmission Provider's transmission system as a Network Resource. A System Impact Study will ultimately be required to determine the specific network upgrades required to integrate the project.

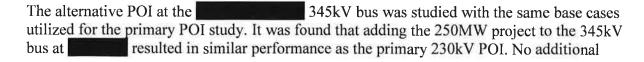
GI #561 250 MW Project Network Upgrades Network Resource Generation Interconnection Facilities		
Network Resource Transmission Upgrades: Cost		
Network Transmission – Total Estimated Cost	\$0	
Energy Resource – Total Estimated Cost	\$1,209,648	
Network Resource – Total Estimated Cost (3)	\$1,209,648	

Table 2. Estimated GI #561 Network Resource Generation Interconnection Costs

- (1) Contingency is added to cover the unforeseen costs in the estimate. These costs can include unidentified design components, material cost increases, labor estimate shortfalls, etc.
- (2) Overhead costs cover the indirect costs associated with the Project.
- (3) This cost estimate includes direct equipment, material, labor, and overheads as shown.
 - Note that these estimates do not include the cost of the customer's equipment/facilities or required communication circuits for SCADA, PMU, and metering.
 - Note that the overhead rates are subject to change during the year.
 - These are estimated costs only and final charges to the customer will be based on the actual construction costs incurred.
 - These are non-binding conceptual level cost estimates that will be further refined upon the request and completion of the Facility Study.

The schedule for designing, procuring, and constructing facilities will be developed and optimized during the Facility Study should the generation interconnection customer choose to move to that study phase of the interconnection process.

8.0 Alternative 345kV Point of Interconnection



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network upgrades beyond adding an additional 345kV line terminal at were identified. The preliminary cost estimate for adding a 345kV line terminal is \$2,656,632.

9.0 Description of Operating Requirements

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

Identification of any additional equipment required at the plant to meet Idaho Power reactive power capability interconnection requirements will be provided in the System Impact Study if the generation interconnection customer chooses to move to the next study phase of the interconnection process.

GI #561 will be required to control voltage in accordance with a voltage schedule as provided by Idaho Power Grid Operations, and GI#561 will be required to manage the real power output of their stated generation at the project's POI.

The project(s) is required to comply with the applicable Voltage and Current Distortion Limits found in IEEE Standard 519-1992 *IEEE Recommended Practices and Requirements for Harmonic Control in Electrical Power Systems*.

Installation of phasor measurement unit devices at the POI and maintenance costs associated with communication circuits needed to stream PMU data will also be required to be provided to interconnect GI #561. The specific costs associated with the IPC requirements for interconnection customers with aggregate facilities larger than 20 MW to provide PMU data to IPC will be identified in the Facility Study should the generation interconnection customer choose to proceed to that phase of the interconnection process. Also, it may be beneficial for for their own modeling compliance requirements, to install additional PMU devices at their facilities to monitor the generations sources separately.

Additional operating requirements for this project may be identified in the System Impact study when it is performed.

10.0 Conclusion

GI #561 can be interconnected to the Idaho Power transmission system.

Interconnection requirements detailed in Section 6.5 totaling \$1,209,648 are required to interconnect the project as an Energy Resource at the proposed 230kV POI. No additional upgrades were identified for the integration of the project as a Network Resource. However, the Network Resource connection is reliant on network facility upgrades identified

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in senior queued generation interconnections.

A System Impact Study is required to determine the specific Transmission Network Upgrades required to integrate the project as a Network Resource and to evaluate the system impacts (thermal overload, voltage, transient stability, reactive margin). Generator interconnection service (either as an Energy Resource or a Network Resource) does not in any way convey any right to deliver electricity to any specific customer or point of delivery. A Transmission Service Request will be required to study the Transmission System Impacts.

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APPENDIX A

A-1.0 Method of Study

The Feasibility Study plan inserts the Project up to the maximum requested injection into the selected Western Electricity Coordinating Council (WECC) power flow case and then, using Power World Simulator or GE's Positive Sequence Load Flow (PSLF) analysis tool, examines the impacts of the new resource on Idaho Power's transmission system (lines, transformers, etc.) within the study area under various operating and outage scenarios. The WECC and Idaho Power reliability criteria and Idaho Power operating procedures were used to determine the acceptability of the configurations considered. The WECC case is a recent case modified to simulate stressed but reasonable pre-contingency energy transfers utilizing the IPC system. For distribution feeder analysis, Idaho Power utilizes DNV·GL's Synergi Electric software and EPRI's OpenDSS software.

A-2.0 Acceptability Criteria

The following acceptability criteria were used in the power flow analysis to determine under which system configuration modifications may be required:

The continuous rating of equipment is assumed to be the normal thermal rating of the equipment. This rating will be as determined by the manufacturer of the equipment or as determined by Idaho Power. Less than or equal to 100% of continuous rating is acceptable.

Idaho Power's Voltage Operating Guidelines were used to determine voltage requirements on the system. These states, in part, that distribution voltages, under normal operating conditions, are to be maintained within plus or minus 5% (0.05 per unit) of nominal everywhere on the feeder. Therefore, voltages greater than or equal to 0.95 pu voltage and less than or equal to 1.05 pu voltage are acceptable.

Voltage flicker during starting or stopping the generator is limited to 5% as measured at the point of interconnection, per Idaho Power's T&D Advisory Information Manual.

Idaho Power's Reliability Criteria for System Planning was used to determine proper transmission system operation.

All customer generation must meet IEEE 519 and ANSI C84.1 Standards.

All other applicable national and Idaho Power standards and prudent utility practices were used to determine the acceptability of the configurations considered.

The stable operation of the system requires an adequate supply of volt-amperes reactive (VAr or VArs) to maintain a stable voltage profile under both steady-state and dynamic system conditions. An inadequate supply of VArs will result in voltage decay or even collapse under the worst conditions.

Equipment/line/path ratings used will be those that are in use at the time of the study or that

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are represented by IPC upgrade projects that are either currently under construction or whose budgets have been approved for construction in the near future. All other potential future ratings are outside the scope of this study. Future transmission changes may, however, affect current facility ratings used in the study.

A-3.0 Grounding Guidance

IPC requires interconnected transformers on the distribution system to limit their ground fault current to 20 amps at the Point of Interconnection.

A-4.0 Electrical System Protection Guidance

IPC requires electrical system protection per <u>Facility Connection Requirements</u> found on the Idaho Power Web site,

https://docs.idahopower.com/pdfs/BusinessToBusiness/FacConnReq.pdf

A-5.0 WECC Coordinated Off-Nominal Frequency Load Shedding and Restoration Requirements

IPC requires frequency operational limits to adhere to WECC Under-frequency and Over-frequency Limits per the <u>WECC Coordinated Off-Nominal Frequency Load Shedding and Restoration Requirements</u> available upon request.

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APPENDIX B

Table B1 is a summary of the Network Transmission generation interconnection facilities and conceptual costs required to interconnect the GI #530 Project to the Transmission Provider's transmission system as a Network Resource.

GI #530 Project	
Network Resource Transmission Upgrades:	Cost
230kV Line Rebuild 35.6 miles of 230kV line with 1590 MCM ACSR "Lapwing" Conductor	\$30,470,000
230kV Line Rebuild 3.1 miles of 230kV line with 1590 MCM ACSR "Lapwing" Conductor	\$2,655,000
Station Build 1.25 miles 230kV Double Circuit Line with 1272 MCM ACSR "Bittern" Conductor	\$1,040,000
230kV Station Add two 230kV Line Terminals	\$1,775,000
500/230kV 2 nd Transformer	\$10,600,000
Subtotal	\$46,540,000
Contingencies (~20%)	\$9,308,000
Subtotal	\$55,848,000
Overheads (~10.0%)	\$5,584,800
Network Transmission – Total Estimated Cost	\$61,432,800
Energy Resource – Total Estimated Cost	\$86,020,000
Network Resource – Total Estimated Cost	\$147,452,800

Table B1 GI #530 Network Resource

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Table B2 is a summary of the Network Transmission generation interconnection facilities and conceptual costs required to interconnect the GI #551 Project to the Transmission Provider's transmission system as a Network Resource.

GI #551 Project		
Network Resource Transmission Upgrades:	Cost	
Network Transmission – Total Estimated Cost	\$0	
Energy Resource – Total Estimated Cost	\$917,937	
Network Resource – Total Estimated Cost	\$917,937	

Table B2 GI #551 Network Resource

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Table B3 is a summary of the Network Transmission generation interconnection facilities and conceptual costs required to interconnect the GI #557 Project to the Transmission Provider's transmission system as a Network Resource.

GI #557 Project		
Network Resource Transmission Upgrades:	Cost	
Includes Air break switches at	\$2,020,000	
Includes Air break switch at King	\$665,000	
Subtotal	\$2,685,000	
Overheads (~10%)	\$268,500	
Subtotal	\$2,953,500	
Contingency (~20.0%)	\$590,700	
Network Transmission – Total Estimated Cost	\$3,544,200	
Energy Resource – Total Estimated Cost	\$554,400	
Network Resource - Total Estimated Cost	\$4,098,600	

Table B3 GI #557 Network Resource

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Table B4 is a summary of the Network Transmission generation interconnection facilities and conceptual costs required to interconnect the GI #560 Project to the Transmission Provider's transmission system as a Network Resource.

GI #560 Project	
Network Resource Transmission Upgrades:	Cost
GI #560 NR Generation Interconnection Station Four-position 500 kV ring-bus (additional cost)	\$9,365,000
230kV Line Rebuild 31.7 miles of 230kV line with 1272 MCM ACSR	\$27,130,000
230kV Line Rebuild 24.4 miles of 230kV line with 1272 MCM ACSR	\$20,885,000
230kV Line Incremental cost to rebuild 35.6 miles of 230kV line with 2 x 954 MCM ACSR	\$1,025,000
230kV Line Rebuild 13.7 miles of 230kV line with 1272 MCM ACSR	\$11,725,000
In the Capacitor 7.25 Ohms 685 MVA	\$8,225,000
In the 230kV Station 230kV line, Install 230kV Series Capacitor 13.0 Ohms 478 MVA	\$5,950,000
In the 230kV Station 230kV line, Install 230kV Series Capacitor 20.0 Ohms 418 MVA	\$5,290,000
345/230kV Station T341 and T342 345/230kV Transformers Thermal Overload RAS	\$200,000
Re-configure 230kV Station 230kV station due to breaker-failure (BF) of PCB 202A	\$1,400,000
GI #560 500kV Station Redundant communication for the	\$1,000,000
Subtotal	\$92,195,000

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Contingencies (~20.0%)	\$18,439,000
Subtotal	\$110,634,000
Overheads (~10%)	\$11,063,400
Network Transmission – Total Estimated Cost	\$121,697,400
Energy Resource – Total Estimated Cost	\$5,676,000
Network Resource – Total Estimated Cost	\$127,373,400

Table B4 GI #560 Network Resource

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Revision History

Date	Revision	Initials	Summary of Changes	
04/09/2020	0	CAW	Initial Report	

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