GENERATOR INTERCONNECTION
MATERIAL MODIFICATION ASSESSMENT

for integration of the proposed

[redacted]

(GI PROJECT # 629)

to the

IDAHO POWER COMPANY ELECTRICAL SYSTEM

in

OWYHEE COUNTY, IDAHO

for

[redacted]

Report v1.0

December 4, 2025

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1.0 Introduction

[redacted] has requested a material modification assessment for the proposed 85 MW [redacted] project (the Project) located in Owyhee County, Idaho. The Project has been assigned Idaho Power Generation Interconnection (GI) queue number 629 (GI #629).

The proposed modifications consisted of changing inverter type from [redacted] to:

- [redacted] inverters rated at [redacted] each (presently installed)
- [redacted] inverters rated at [redacted] each (proposed COD 6/1/26)

This report describes the results of an assessment that was conducted to evaluate the potential impacts of the proposed modifications in accordance with the Idaho Power Open Access Transmission Tariff and executed Large Generator Interconnection Agreement (LGIA) and any associated amendments for the Project.

2.0 Summary

An assessment was conducted which determined that the requested modifications are not considered Material Modifications. The proposed changes do not result in any reliability concerns, nor do they require new facilities beyond what was already described in the LGIA and any associated amendments. The proposed changes may be incorporated in the Project's LGIA as an amendment.

3.0 Assessment Results

3.1 Power Flow Results (Thermal and Voltage Analysis)

Because there are no changes to the Project's maximum real power output at the Point of Interconnection (POI), and the Project will continue to meet reactive power requirements, the proposed changes will have no impact on the power flow analysis results performed in previous studies.

3.2 Reactive Power Requirements

Power flow analysis indicates that the Project has sufficient reactive power capability to provide a 0.95 leading/lagging power factor at the POI at a maximum output based on the provided data.

3.3 Transient Stability Results

Transient stability data provided by the customer was reviewed and deemed usable. A transient stability analysis was performed, and the results were deemed acceptable.

3.4 Post-Transient Voltage Stability (Reactive Margin) Results

Because there are no changes to the Project's maximum real power output at the POI, and the Project will continue to meet reactive power requirements, the proposed changes will have no impact on the voltage stability analysis results performed in previous studies.

3.5 Short Circuit Results

The proposed changes do not necessitate any changes to the required protection systems identified in previous studies.

3.6 Other Operating Requirements

The Project will be required to control voltage in accordance with a voltage schedule as provided by Idaho Power Load Serving Operations. The Project will be required to install a plant controller for managing the real power output at the Project's POI.

The Project is required to comply with the applicable Voltage and Current Distortion Limits found in IEEE Standard 2800 or any subsequent standards as they may be updated from time to time.

The Project will be required to reduce output to levels directed by IPC Load Serving Operations during transmission system contingencies and other reliability events.

4.0 Conclusions

An assessment was conducted which determined that the requested modifications are not considered Material Modifications. The proposed changes do not result in any reliability concerns, nor do they require new facilities. The proposed changes may be incorporated in the Project's LGIA as an amendment.

Revision History

Date	Revision	Initials	Summary of Changes
2025-12-04	1.0	TRS	Initial report