

**GENERATOR INTERCONNECTION
MATERIAL MODIFICATION ASSESSMENT**

for integration of the proposed

**100 MW [REDACTED] PROJECT
(IDAHO POWER QUEUE #604)**

to the

IDAHO POWER COMPANY ELECTRICAL SYSTEM

in

ELMORE COUNTY, IDAHO

for

**[REDACTED]
Report v1.0**

September 29, 2026

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1.0 INTRODUCTION

On September 1, 2026, [REDACTED] requested a material modification assessment from Idaho Power Company (Transmission Provider), which consisted of a proposal to change the inverters used for the project.

The Project is Generation Interconnection queue number 604 (GI #604) located in Elmore County, ID at approximately [REDACTED]. The specific Point of Interconnection (POI) is at Idaho Power's 230kV [REDACTED] Station.

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

2.0 DESCRIPTION OF PROPOSED TECHNOLOGICAL CHANGE

The proposed technological changes to Crimson Orchard Solar Project include:

- Switch PV inverters from [REDACTED] to [REDACTED]
- Switch BESS inverters from [REDACTED] to [REDACTED]

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 POI, the modifications will have no impact on the power flow results found in previous studies.

3.2 Reactive Power Requirements

The Project will be required to operate at 0.95 leading/lagging measured at the high side of the main power transformer to maintain voltage within limits at the POI over the range of real power output.

Power flow analysis indicates that with the proposed technological change, the Project has sufficient reactive power capability to provide a 0.95 leading/lagging power factor at the POI over the range of real power output based on the data provided by Interconnection Customer.

3.3 Transient Stability Results

Transient stability data provided by the customer for the changes to the Project was reviewed and deemed usable. A transient stability analysis was performed with the new provided data, and the results were 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 reactive power requirements are not changed at the POI, the proposed technological change will have no impact on the voltage stability analysis found in previous studies.

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3.5 Short Circuit Results

The proposed technological change does not necessitate any changes to the required protection system.

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 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 modification request is not considered a material modification. The proposed changes do not result in any new reliability concerns, nor do they require new facilities. The proposed changes may be incorporated into the Project's LGIA.

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