

**GENERATOR INTERCONNECTION  
MATERIAL MODIFICATION ASSESSMENT**

for integration of the proposed

**53 MW XXXX PROJECT  
(IDAHO POWER QUEUE #630)**

to the

**IDAHO POWER COMPANY ELECTRICAL SYSTEM**

in

**ELKO COUNTY, NEVADA**

for

**XXXX**

**REPORT v.1**

**July 24<sup>th</sup>, 2024**

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## **1.0 INTRODUCTION**

XXXX has requested a material modification to the XXXX Project (the Project) which consists of adding 53 MW of battery energy storage system (BESS) which will be solely charged by the Project's own solar generation facilities.

The Project is in Idaho Power Company's (IPC) Southern Region in Elko County, Nevada. The Project is Generation Interconnect (GI) queue number 630 (GI #630). The specific point of interconnection (POI) is the 138kV Border Tap to Wells Substation, approximately 41 miles south of the Nevada–Idaho border.

This report describes the results of an assessment that was conducted to evaluate the potential impacts of the proposed modification in accordance with the executed Large Generator Interconnection Agreement (LGIA) for GI #630.

## **2.0 ASSESSMENT RESULTS**

The material modification assessment requests the addition of 53 MW of BESS to the Project. The BESS addition includes the required collector system and transformers to incorporate the BESS into the Project. This modification request does not increase the total deliverable capacity of the Project to the POI of 53 MW total injection capacity. XXXX has requested that the BESS will be solely charged from the Project's own solar generation facilities. Grid-charging the BESS system was not contemplated in this study.

To prohibit charging the BESS from the IPC Transmission System, IPC-owned relays will be enabled with settings to trip GI #630 facility offline if grid charging is detected. The installation of the required relays has already been considered in previous cost estimates. Transient stability analysis resulted in reliability violations, updated dynamic models will be required prior to issuing an updated LGIA. No additional upgrades are required beyond those previously identified in the LGIA dated April 24, 2023.

## **3.0 CONCLUSIONS**

An assessment was conducted, which determined that the Project's request to add BESS does not constitute a Material Modification. However, LGIA must be amended to include the addition of the BESS and specify that the BESS will be charged from the Project's own solar generation facilities. Interconnection Customer will need to demonstrate the operating procedures and control measures that prevent the BESS from being charged via IPC's transmission system. Additionally, IPC will enable settings on an IPC-owned relay to trip GI #630 offline if grid-charging is detected.

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