

DOCKETED

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Project Title:	Compliance - Application for Certification of DWR Bottlerock Geothermal Project
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DATA REQUESTS – SET NO. 6 – TRANSMISSION SYSTEM ENGINEERING BOTTLE ROCK
GEOTHERMAL POWER PLANT (79-AFC-04C)

1. Please discuss the route of the proposed generator tie line to the new generators in more detail and provide the following information:

- **The tie line conductor type, size and ampacity.**
- **One-line diagram of the proposed generator tie line indicating the transformer and breakers ratings.**

The proposed Bottle Rock repowering project will install an ORC-based geothermal facility exporting approximately 7.593 MW to the grid on the existing power plant site owned by Bottle Rock Power LLC (BRP). BRP intends to bring online the additional capacity of up to 45 MW for other energy generation resources. Under the current LGIA, BRP proposed a 45MW BESS alongside OME's 7.5 MW geothermal plant.

The repowered geothermal facility will utilize two 5.5 MW ORC units and will be connected to a standalone 13.8 kV MV switchgear lineup with dedicated breakers and protection. From the 13.8 kV bus, output will be stepped up through a new 13.8/230 kV GSU transformer, segregated from the existing transformer. The new 230 kV gen-tie will route from the GSU high-side to the existing Bottle Rock 230 kV Tap, which ties into the Geysers #17 - Fulton 230 kV transmission line at the POI.

230kV Generation tie-line

1. 1.07 mi 1113 kCMIL, AAC (existing)
2. 0.1 mi 477 kCMIL, ACSR (new)

Ampacity will be based on the existing PG&E line conductor rating and the project gen-tie design criteria.

Generator step-up transformer (See attached documents for details)

1. 68 MVA 230/13.8 kV GSU transformer (existing)
2. 20 MVA 230/13.8 kV GSU transformer (new)

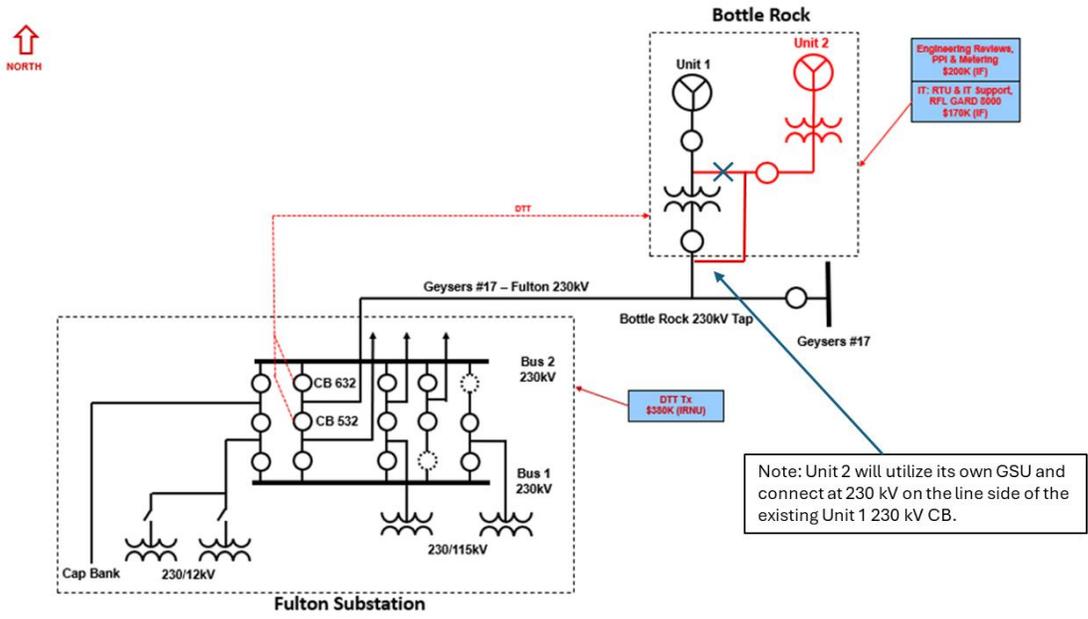


Figure 1: Interconnection Overview

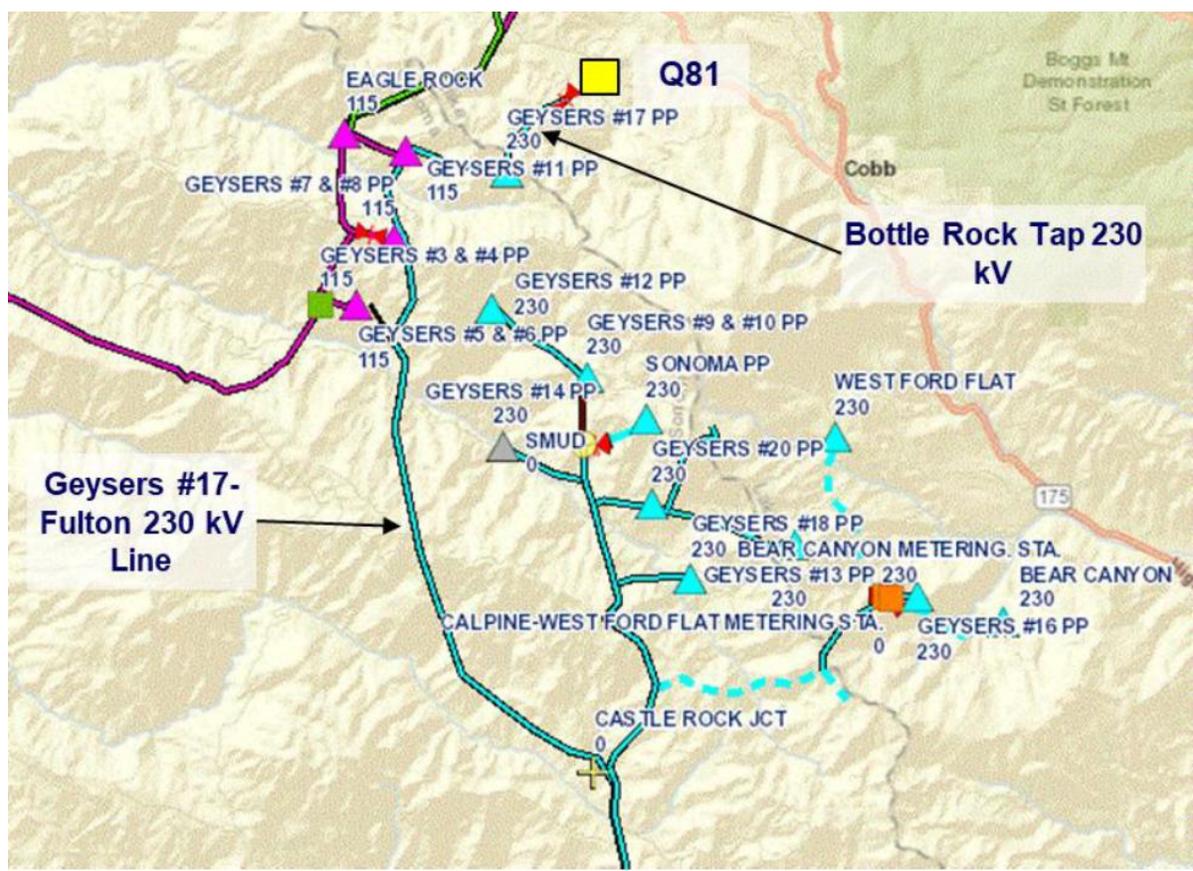


Figure 2: Gen-Tie Line Overview

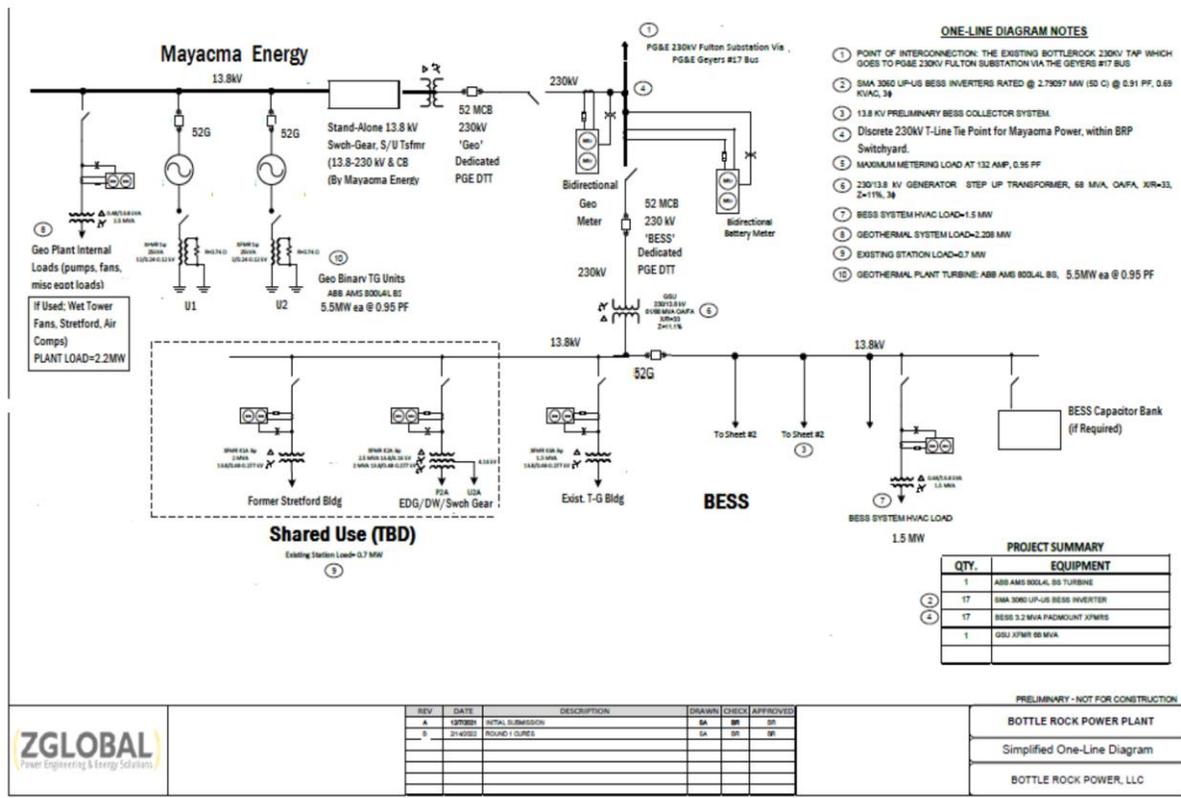


Figure 3: Interconnection SLD

2. Discuss the interconnection of the new generators to the existing PG&E substation.

The repowered Bottle Rock facility will interconnect at the existing Bottle Rock 230 kV Tap on the Geysers #17 - Fulton 230 kV transmission line.

As mentioned above, two 5.5 MW ORC units will be installed and connected through a standalone MV switchgear and an HV circuit breaker, then stepped up through a new 13.8/230 kV GSU transformer. From the GSU high-side, a new 230 kV gen-tie will connect to the existing Bottle Rock 230 kV tap. Power will then be delivered to the PG&E grid via the existing Geysers #17 - Fulton 230 kV line, which ties into the PG&E Fulton Substation at 230 kV.

The interconnection will therefore utilize the existing PG&E transmission interconnection location and configuration. Protection, metering, and control systems will be implemented consistent with PG&E/CAISO interconnection requirements, and any required relay settings or communications updates will be addressed as part of the repower scope.

3. Provide more information about the new generators being added such as their ratings and output voltages levels.

See below ORC generator specifications:

- ORC power plant model: 2 x KE5500-124V-2-60D
- Generator specification: 5.5 MW, 1800 rpm, 60 Hz, 13.9 kV, double shaft, IP55;
- Expander models: SKYe432535+SKYe432R535;
- Expander rotational speed: 1800 rpm, direct driven;
- Gross power at design condition: 9.587 MW;
- Net power of modular power plants: 7.893 MW
- Estimated power to the grid: 7.593 MW

The ORC units will utilize 13.8 kV class synchronous generators. The OEM manufacturer will be confirmed during procurement.

4. Provide the one-line diagram of the existing tie line between the existing generators and PG&E substation with relevant details such as transformer and breaker ratings.

See attached files for SLD.

5. Provide the one-line diagram of the existing PG&E substation.

See attached files for SLD.

6. Provide Large Generator Interconnection Agreement with the utility (PG&E).

See attached files for LGIA.

7. Provide Affected System Studies, California Independent System Operator Interconnection Study Report and Generator Reassessment reports.

See attached files for Repowering Study Report.

Note that there were no affected systems identified in the repower study report.