

VIA ELECTRONIC FILING

September 26, 2017

Public Service Commission Heber M. Wells Building, 4th Floor 160 East 300 South Salt Lake City, UT 84114

Attention: Gary Widerburg

Commission Secretary

RE: Docket No. 17-035-26 – Application of Rocky Mountain Power for Approval of the Power Purchase Agreement between Rocky Mountain Power and Glen Canyon Solar A, LLC; and Docket No. 17-035-28 – Application of Rocky Mountain Power for Approval of the Power Purchase Agreement between Rocky Mountain Power and Glen Canyon Solar B, LLC

Mr. Widerburg:

Rocky Mountain Power hereby files the amended exhibits (listed below) to each of the Glen Canyon A and Glen Canyon B Power Purchase Agreements, updating the originally-filed exhibits with more accurate or with additional information that was missing:

- Exhibit 3.2.5 Leases
 - o Lease information was amended to include only the relevant leases for each PPA.
- Exhibit 4.6 Qualified Reporting Entity Services Agreement
 - o Counterparty name missing on first page
- Exhibit 6.1 Description of Seller's Facility
 - o Seller's Confirmation signature missing on last page
- Exhibit 9.2 Point of Delivery/Interconnection Facilities
 - o The point of delivery and point of interconnection were missing
- Exhibit 11.4 Form of Memorandum of Power Purchase Agreement
 - o Exhibit A, Legal Description of the Premises was missing

Rocky Mountain Power requests that the attached amended exhibits replace the former version of the exhibits in their entirety. Rocky Mountain Power is serving intervenors in the respective dockets with this information. Please feel free to contact me at 801.220.4467 if you have any questions.

Sincerely,

Kyle Moore

Rocky Mountain Power Commercial Services

I More

EXHIBIT 3.2.5

LEASES

The following lands situated in Kane County, Utah totally approximately 1, 567.72 acres described as follows:

Township 43 South, Range 2 East:

- Section 4: S2, Lot 8, SW4NW4 401.08 acres
- Section 5: All 644.48 acres
- Section 6: E2 322.16 acres
- Section 8: That portion of N2N2 lying north of US 89 120 acres
- Section 9: N2NW4 80 acres

EXHIBIT 4.6

QUALIFIED REPORTING ENTITY SERVICES AGREEMENT

C & T Master v3.2a; 02122016

This Qualified Reporting Entity Services Agreement (this "Agreement") is entered into by and between PacifiCorp ("PacifiCorp") and Glen Canyon Solar A, LLC ("Counterparty"; PacifiCorp and Counterparty may be referred to individually herein as "Party" and collectively as "Parties") as of the date signed by both Parties with reference to the following:

WHEREAS, Counterparty represents to PacifiCorp that it owns or otherwise has the rights to all or part of the non-energy attributes of the generation from that certain electric generation facility as such rights are defined in that power purchase agreement between PacifiCorp and Counterparty for the Facility more particularly described on Exhibit A hereto (the "Facility"), or other rights respecting the Facility itself enabling it to lawfully enter hereinto; and

WHEREAS, The Western Renewable Electricity Generation Information System ("WREGIS") is a system tracking quantities of renewable energy generation generated by electric generating facilities in the nature of the Facility, as a Facility pursuant to WREGIS Terms of Use ("TOU"); and

WHEREAS, WREGIS requires that each Facility have a designated Qualified Reporting Entity; and

WHEREAS, Counterparty is an Account Holder in WREGIS and wishes to register the Facility with WREGIS; and

WHEREAS, Counterparty wishes to retain PacifiCorp to act as its WREGIS-defined Qualified Reporting Entity ("QRE") for the Facility;

NOW THEREFORE, in consideration of the mutual promises herein contained, the Parties agree as follows:

I. Definitions; Rules of Construction.

- 1.1 Initially capitalized terms used and not otherwise defined herein are defined in the in the Operating Rules or in Attachment 1 *Definitions* of the WREGIS TOU.
- 1.2 "Affiliate" means, with respect to any entity, each entity that directly or indirectly controls, is controlled by, or is under common control with, such designated entity, with "control" meaning the possession, directly or indirectly, of the power to direct management and policies, whether through the ownership of voting securities or by contract or otherwise. Notwithstanding the foregoing, with respect to PacifiCorp, Affiliate shall only include Berkshire Hathaway Energy and its direct, wholly owned subsidiaries.

Exhibit A Facility and Generation Data

For Facility enter the following information:

Facility Name and Address or Location:

Facility Name: Glen Canyon Solar A

Location:

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- Section 9: N2NW4 80 acres

Meter Number (Device ID): To be provided by amendment to the Agreement

Facility's WREGIS Generator ID: To be provided by amendment to the Agreement

EIA or QF ID#: To be provided by amendment to the Agreement

One-line diagram that includes description of meter locations at the facility – voltage and location

To be provided by amendment to the Agreement

EXHIBIT 6.1

Description of Seller's Facility

This Exhibit 6.1 can be updated by Seller with Notice to Buyer provided that the Facility point of interconnection and KW AC Nameplate Data remain the same.

Seller's Facility consists of approximately 293,652 panels rated at approximately 315 watts DC manufactured by Jinko Solar, First Solar, or similar), 37-inverters manufactured by Power Electronics (or similar), and NEXTracker SPT or similar tracking system (if applicable) manufactured by NEXTracker (or similar). More specifically, the Facility includes:

A. Manufacturer's Nameplate Data: approximately 92,500 KW DC, 74,000 KW AC

Solar Panels

Manufacturer: Jinko Solar (or similar, including First Solar)

Model: JKM315P-72 (or similar)Power rating (Watts DC @ STC):315 W (420 W for

First Solar)

Number of: approximately 293,652

Number of Modules per string: 18 expected Module warranty (year 10) (% of new):91.2% or Module warranty (year 25) (% of new):80.7%

Inverters

Manufacturer: Power Electronics (or similar)

Model: FS2110CU (or similar) Inverter Rating (AC, kW): 2,110

Number of Inverters: 37

Inverter Efficiency at Full Power Rating(%): 98.6%

Inverter Capacity for Site (AC, kW): 74,000

Operation Voltage (Volts):420V

Maximum System Design Voltage -1000 (Volts)

Number of Phases: 3

Mounting

Fixed tilt or Single-axis TrackingSingle Axis Tracking Proposed Module orientation (landscape, portrait) Portrait Tilt Angle (Degrees):0
Azimuth (Degrees):0
Pitch (Row Spacing) (Feet):19.25 ft
Row Width (Feet):6.42 ft
Row Length (Feet):237.3 ft
Max/min rotation (if tracking) (Degrees):60/-60
Ground Coverage Ratio:33%

Power Consumption requirements (for tracking) (kWhs/Day)0

PV Array Characteristics:

Rated Output (kW): 92,500 KW DC / 74,000 KW AC

Rated Output (kVA): 92,500 kVA/74,000kVA

Transformation

Number of Step-up transformers: 1 Size of Step-up Transformers (kVA): 100 Low Side voltage of Step-up transformer (volts):34,500 High Side voltage of Step up transformer (volts):230,000

Total land required: 600 acres

Power factor requirements:

Rated Power Factor (PF) or reactive load (kVAR): PF= 1.00

Leading: 0.95 Lagging: 0.95

B. <u>Seller's Estimate of Facility Annual Output Under Ideal (Maximum) or Worst</u> (Minimum) Conditions

Maximum kW Output ("Maximum Facility Delivery Rate"): 74,000 kW AC

Maximum kVA Output: 74,000 kVA

Minimum kW Output: 0 kW Estimated kW Output:23.83 kW AC

Maximum Generator Interconnection Agreement Delivery Rate: 74,000kW hour-averaged

[specify whether instantaneous or hour-averaged]

Nameplate Capacity Rating: 74,000 KW AC at 50° C

Station service requirements are described as follows: Estimated station service for tracking, lighting and other auxiliary energy requirements is estimated to be approximately 1,244,439KWH annually.

C. PV Panel output degradation factor: 0.5 % per year

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Project Description

Location

Location of the Facility:

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The project will have a design output of 74 MW_{ac} (the "PV System"). The system will consist of thin film / crystalline (c-Si) panels with a nominal DC rating of 315 watts per panel and an aggregate nameplate capacity of approximately 92.5 MWdc. The panels will be erected on a fixed / single axis tracker system, including controls and 37 (#) 2,000 kW_{ac} Power Electronics inverters (or similar). The project will utilize fixed tilt / single axis trackers manufactured by NEXTracker (or similar). The perimeter of the site will be fenced (8' high with 1' top guard with three strands of barbed wire).

The panel supports/tracking system will be mounted approximately seven (7) feet above ground level on driven galvanized steel support posts. Each tracker row will be level, but the height of the rows within a tracker block will generally follow existing surface topography (if applicable). The posts will be spaced between 25' on centers. A drive gearbox, motor, and relay control panel or a slave (non-motorized) gearbox will be mounted on a column cap on support post near the middle of each tracker row (if applicable).

The PV modules will be attached to the racking/torque tubes using mounting clamp assemblies.

The PV modules selected are manufactured by Jinko Solar (or similar, including First Solar) which have an STC rated output of 315 (420 for First Solar) watts DC. The PV modules will be configured in 18 module strings.

The output from each inverter is pre-wired to the switchboard through an TBD amp circuit breaker. The switchboard inside the enclosure will be wired to the TBD kVA transformer.

The transformers for the units to be installed for the entire PV System will be connected through a TBD kV class metal clad switchgear in a NEMA 3R enclosure. The switchgear will have a pull section for the PV side, sections for protective relays, a TBD amp drawout vacuum breaker, metering CT and PT, surge arrestor, TBD amp visible blade switch, and a transition section for the utility side. The point of interconnection will be a TBD distribution feeder line.

Plant control power will be provided from TBD transformer that is fed off of the TBD kV switchgear.

The system will utilize a monitoring system platform, including interconnection communications.

The monitoring system will monitor data at each inverter through a revenue grade meter. The monitoring system provides energy generation data, historical data, solar insolation attributes, and meteorological data. The system will be configured to provide data updates every fifteen minutes, but can be configured to provide updates more frequently. A weather station will also be supplied that will provide current weather data, temperature and irradiance. Alarms and notices can instantly alert the system manager to potential system problems and outages.

Seller Confirmation: [Seller's signature] Seller confirms that the information in this Exhibit 6.1 is correct as of April 24, 2017.

EXHIBIT 9.2

POINT OF DELIVERY/INTERCONNECTION FACILITIES

Instructions to Seller:

1. Include description of point of metering, and Point of Interconnection

The meters are expected to be located at the low side of the Seller-owned main GSU transformer. The Point of Interconnection is expected to be via a 3-breaker switching station looped into the Glen Canyon-Sigurd 230 kV PacifiCorp line.

2. Include description of Point of Delivery

3-breaker switching station to be constructed on the Glen Canyon-Sigurd 230 kV line.

3. Provide interconnection single line drawing of Facility including any transmission facilities on Seller's side of the Point of Interconnection.

See single line drawing in the attachment to this Exhibit 9.2. There are no transmission facilities on Seller's side of the Point of Interconnection.

4. Provide transmission single line drawing of the transmission path from the Point of Interconnection to the Point of Delivery as the path is defined in the Transmission Agreement(s). Specify any changes of ownership along the transmission path. Specify the Transmission Agreement(s) governing each segment of Seller's transmission path, from the Point of Interconnection to the Point of Delivery.

The Point of Interconnection is also the Point of Delivery so there is no transmission path, transmission agreement or change of ownership along the transmission path.

5. Describe Seller's arrangements for station service to the Facility and show on one-line diagram how station service will be provided and metered.

Seller will enter into a service agreement with the local utility service provider (TBD) to provide power to control the building at the substation location via the station service transformer depicted in the attached single line drawing. If the local utility service provider is not Rocky Mountain Power, Seller will add an additional meter set at the station service transformer as necessary.

6. Specify the maximum hourly rate (MW) at which Seller is permitted to deliver energy to the Point of Delivery and in compliance with Seller's transmission rights between the Point of Interconnection and the Point of Delivery ("Maximum Transmission Rate"): 74 MW

EXHIBIT 9.2 – Attachments

1. Substation Metering One-Line Diagram

Sigurd-Glen Canyon 230kV Transmission Line **NOTES** 52 PROTECTIVE RELAY CONFIGURATION DEDEPENT ON UTILITY INTERCONNECTION REQUIREMENTS. FINAL TRANSFORMER CONFIGURATION DEPENDENT 52 ON UTILITY INTERCONNECTION REQUIREMENTS. **AIR SWITCH** 230kV, 2000A **GLEN CANYON A [74MW]** Primary & Secondary Meter <u>GSU</u> 64/85/106 MVA 230kV/34.5kV See Drawing ESLD-AC-2 50kVA → Feeder 1 **GLEN CANYON B [21MW]** — → Feeder 2 Primary & Secondary Meter ─ Feeder 3 — → Feeder 4 See Drawing ESLD-AC-3 → Feeder 5 **PRELIMINARY**

S•POWER

SUSTAINABLE POWER GROUP

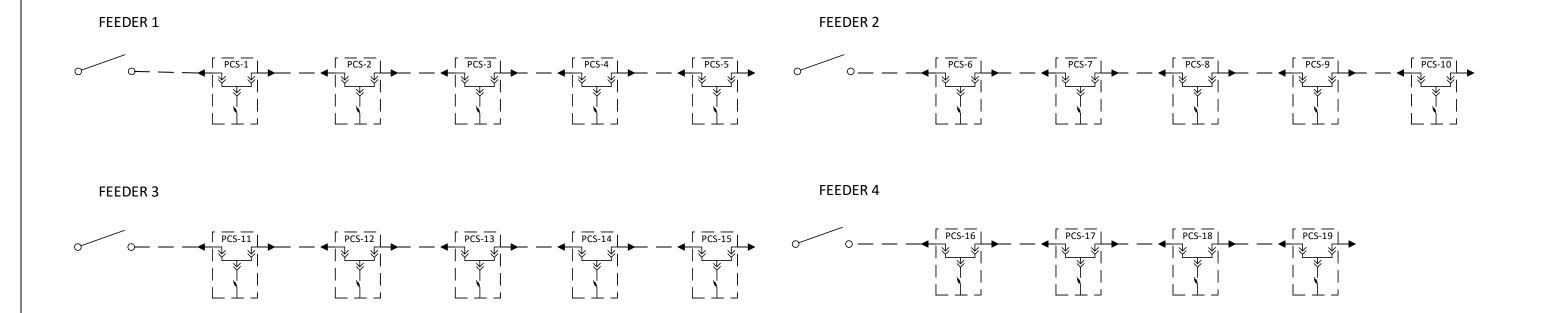
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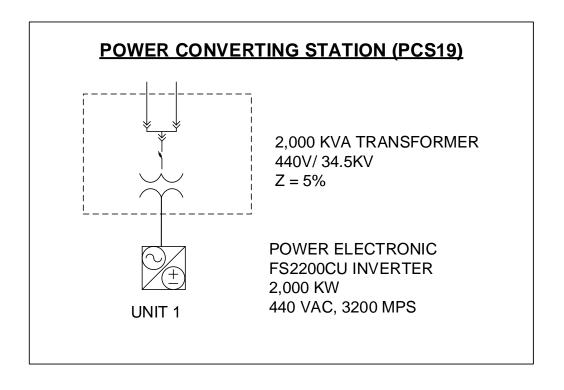
DRAWING NAME: $\underline{ \textbf{ELECTRICAL SINGLE LINE DIAGRAM} }$

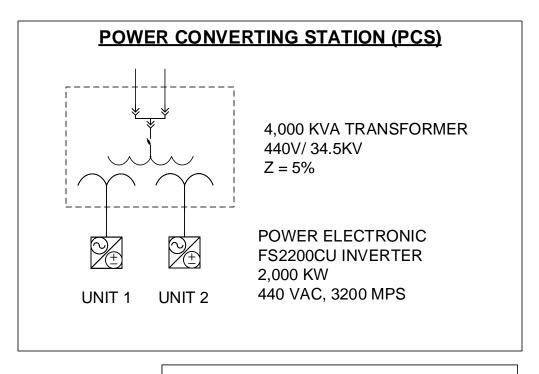
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DATE: 6/20/2017

REVISION: 0







PRELIMINARY



PROJECT NAME: GLEN CANYON SOLAR

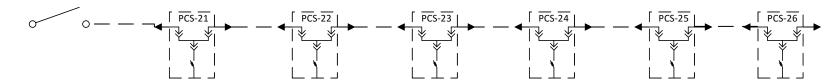
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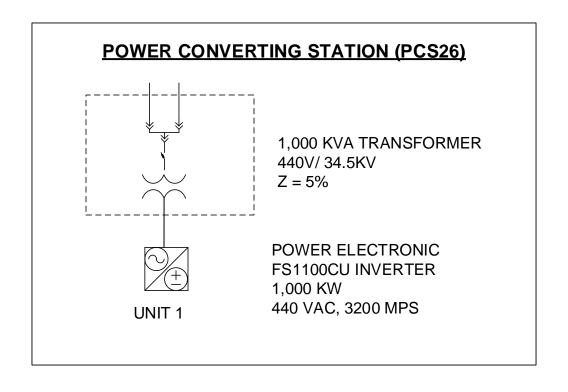
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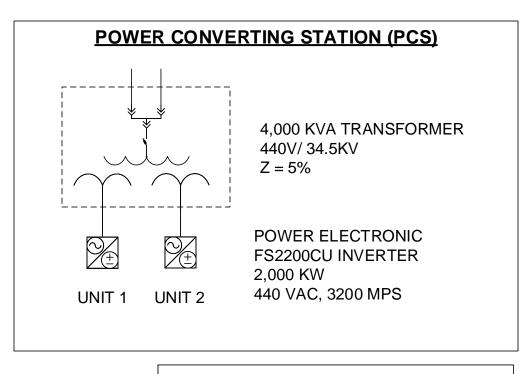
DATE: 06/20/2017

REVISION: 0

FEEDER 5







PRELIMINARY

S-POWER
SUSTAINABLE POWER GROUP

PROJECT NAME: GLEN CANYON SOLAR

DRAWING NAME: $\underline{ \text{ELECTRICAL SINGLE LINE DIAGRAM} }$

DRAWING NUMER: ESLD - AC-3

DATE: 06/20/2017

REVISION: 0

Exhibit "A"

Legal Description of the Premises

The following lands situated in Kane County, Utah totally approximately 1, 567.72 acres described as follows:

Township 43 South, Range 2 East:

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- Section 6: E2 322.16 acres
- Section 8: That portion of N2N2 lying north of US 89 120 acres
- Section 9: N2NW4 80 acres

CERTIFICATE OF SERVICE

Docket No. 17-035-26

I hereby certify that on September 26, 2017, a true and correct copy of the foregoing was served by electronic mail to the following:

Utah Office of Consumer Services

Cheryl Murray cmurray@utah.gov
Michele Beck mbeck@utah.gov

Division of Public Utilities

Erika Tedder <u>etedder@utah.gov</u>

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Katie Savarin

Coordinator, Regulatory Operations