



Black Hills Energy has been requested [REDACTED] to complete a pre-application screening of a 2 MW solar project that is located at 38.3639926, -105.1074757, on SKAL\_50121. The distribution line is around 150 feet from the point of interconnection. Per the Commission's decision C21-0298, rule 3853(a)(IV)(E) it states the following:

"The utility shall, in good faith, include data in the pre- application report that represents the best available information at the time of reporting. The pre-application report will include the following information:"

Following this section is the information that is required by rule, for Black Hills Energy to provide.

- (i) Total capacity (in MVA) of substation/area bus, bank or circuit based on normal or operating ratings likely to serve the proposed point of interconnection.  
**The total capacity at Transformer is 22.4 MVA based on the transformer nameplate rating.**
- (ii) Existing aggregate generation DER capacity (in MW AC) interconnected to a substation/area bus, bank or circuit (i.e., amount of DER online) likely to serve the proposed point of interconnection.  
**The current DER capacity that is connected to the SKAL\_50121 for the requested point of interconnection is 330 kW.**
- (iii) Aggregate queued DER capacity (in MW AC) for a substation/area bus, bank or circuit (i.e., amount of DER in the queue) likely to serve the proposed point of interconnection.  
**At this time, there is no additional queued DER capacity for SKAL\_50121.**
- (iv) Available capacity (in MW AC) of substation/area bus or bank and circuit likely to serve the proposed point of interconnection (i.e., total capacity less the sum of existing aggregate DER capacity and aggregate queued DER capacity).  
**Available substation capacity and feeder capacity was based on the following calculations:**
  - **Substation Load Capacity = Substation Transformer Nameplate Rating – Combined Feeder Peak Load – Existing DER on Feeders**
    - o **12.87 MVA= 22.4 MVA – 8.3 MVA– 1.23 MVA**
  - **Feeder Load Capacity = Available Feeder Capacity – Feeder Peak Load – Existing DER**
    - o **7.3 MW = 10.27 MW– 2.64 MW – 0.33 MW**
- (v) Substation nominal distribution voltage and/or transmission nominal voltage, if applicable.  
**The Skala substation is fed from a 115 kV source and the distribution voltage coming out of the substation is 13.2/7.62 kV.**
- (vi) Nominal distribution or transmission circuit voltage at the proposed point of interconnection whether the proposed DER is eligible for the Level 1, Level 2 or non-export process.  
**The circuit voltage at the proposed point of interconnection is 13.2/7.62 kV.**

- (vii) Approximate circuit distance between the proposed point of interconnection and the substation.

From the substation to the point of proposed interconnection, the approximate distance is 4,300 feet.

- (viii) Relevant line section(s) actual or estimated peak load and minimum load data, including daytime minimum load as described in the supplemental review minimum load screen in subparagraph 3855(d)(VI)(A) and absolute minimum load at the time of DER production, when available.

As noted in rule section 3855(d)(VI)(A), the past 12 months of data was used to determine the peak load, minimum load and daytime minimum load points. Based on the data set from May 2025 through April 2026 the peak load on SKAL\_50121 was 2.87 MVA, the minimum load was 0.42 MVA, and the minimum daytime load was 0.303 MW.

- (ix) Number and rating of protective devices and number and type (standard, bi-directional) of voltage regulating devices between the proposed point of interconnection and the substation/area. Identify whether the substation has a load tap changer.

From the requested location back to the substation feeder breaker, the protective devices are the feeder recloser at the substation. The recloser at the substation has a SEL 351S relay and the following protective settings are currently deployed within the relay.

- Phase Settings
  - o Pick-up of 690 Amps
  - o Curve type is a U2
  - o Time Dial of 7
- Ground Settings
  - o Pick-up of 360 Amps
  - o Curve type is a U4
  - o Time Dial of 7

From the requested interconnection location, there is an LTC on the substation transformer at the Skala substation. The LTC is set to the following settings.

- Band Center = 124
- Bandwidth = 3.0V
- Time Delay = 30 seconds

- (x) Number of phases available at the proposed point of interconnection. If a single phase, distance from the three-phase circuit.

A distribution three phase line currently runs East of the point of interconnection.

- (xi) Whether the point of interconnection is located on a spot network, grid network, or radial supply; and

The point of interconnection would be located off a distribution radial supply.

- (xii) Existing or known constraints such as, but not limited to, electrical dependencies at that location, short circuit interrupting capacity issues, power quality or stability issues on the circuit, capacity constraints, or secondary networks, based on the proposed point of interconnection.

Black Hills Energy has no additional known constraints for this point of interconnection. Though Black Hills Energy is unaware of any known constraints, a formal interconnection request will be required to confirm.

The information provided above is a snapshot in time and should only be used for preliminary analysis for siting a renewable asset. Formal study analysis will need to be completed if the interconnection customer elects to continue to push this project to the next phase for implementation.