McFarland Solar A, LLC
McFarland Solar B, LLC
McFarland Storage C, LLC
2180 S 1300 E, Suite 500
Salt Lake City, UT, 84106

June 12, 2023

Western Electricity Coordinating Council
155 North 400 West, Suite 200
Salt Lake City, UT, 84103-1114

To the Western Electricity Coordinating Council:

AES Clean Energy Development is developing a 500 $MW_{AC}$ Solar PV and Battery Storage System (BESS) project in Dateland, Arizona under the California Independent System Operator (CAISO)'s area with the Arizona Public Service (APS) and San Diego Gas and Electric (SDGE) as the Transmission participant and Imperial Irrigation District (IID) as affected system. The project is expected to achieve Commercial Operation over three (3) phases, with the earliest phase expected to achieve Commercial Operation on November 30, 2023, and the latest phase expected to reach Commercial Operation on June 1st, 2025. All the phases of the Q1171 McFarland Solar project will connect to Hoodoo Wash 500 kV substation where the output will be collected and stepped up from 34.5 kV to 500 KV.

Q1171 McFarland Solar will have the following phases:

1. Phase A, McFarland Solar A project which entity is McFarland Solar A, LLC.
2. Phase B, McFarland Solar B project which entity is McFarland Solar B, LLC
3. Phase C, McFarland Storage C project which entity is McFarland Storage C, LLC

These project phases will be built as follows:

Phase A: McFarland Solar A, is a project with 200 MW of photovoltaic (PV) system that is ac-coupled with 100 MW 4-hour of Battery Storage System (BESS)

The PV part of McFarland A will have sixty (60) Sungrow SG3600UD Inverters each sized 3.6 MVA at 45°C at the inverter terminals, and sixty (60) pad mounted step-up transformers each rated at 3.6 MVA with an impedance of 5.75%.

The BESS part of the project will have eighty-four (84) EPC Power CAB 1000/AC-3L.2 each sized 1.41 MVA at 40°C at the inverter terminals and twenty-eight (28) pad mounted step-up transformers, each rated 4.5 MVA with an impedance of 5.75%.

Phase B: McFarland Solar B is a project with 300 MW PV and 150 MW BESS in a DC-coupled system.

McFarland Solar B will have two-hundred and thirty-two (232) GPTECH W3 series 2Ms1.2BsWD3-V910-MV34.5 inverters each sized 1.389 MVA at 46°C at the inverter terminals with fifty-eight (58) pad mounted step-up transformers each rated at 6 MVA with an impedance of 8%.

Phase C: McFarland Storage C will be 185 MW 4-hour BESS standalone with total MW at the POI of 185 MW.

McFarland Storage C will have sixty-three (63) GPTech APCS3MSWD3 inverters with sixty-three (63) GE Prolec 3.9 MVA 34.5kV transformers.

| Name | MW | Target COD | Internal Bus connection | Inverter type (number), manufacturer and type |
|---|---|---|---|---|
| McFarland Solar A | 200 MW solar PV 100 MW BESS | November 30, 2023 | Hoodoo Wash 500kV Sub | AC-coupled (60) Sungrow SG 3600 and (116) EPC Power CAB1000/AC-3L.2 |
| McFarland Solar B | 300 MW solar PV 150 MW BESS | April 29, 2023 | Hoodoo Wash 500 kV Sub | (232) GPTECH W3 series 2Ms1.2BsWD3-V910-MV34.5<br>(40) GPTECH W3 series 2Ms1.2BsWD3-V910-MV34.5 (connected through McFarland Solar A transformer) |
| McFarland Storage C | 185 MW BESS | June 1, 2025 | Hoodoo Wash 500 kV Sub | 63 GPTech APCS3MSWD3 |

The expected Milestones dates for each phase are as follows:

Milestone Dates for McFarland Solar A:
In-Service Date: **7/27/2023**
Initial Synchronization Date: **9/1/2023**
Commercial Operation Date: **11/30/2023**

Milestone Dates for McFarland Solar B:
In-Service Date: **9/1/2023**
Initial Synchronization Date: **11/15/2023**
Commercial Operation Date: **4/29/2023**

Milestone Dates for McFarland C:
In-Service Date : **12/15/2024**
Initial Synchronization Date: **1/15(/2025**
Commercial Operation Date: **6/1/2025**

Sincerely,

Jacob Pundyk
Director, Interconnection Engineering
jacob.pundyk@aes.com
07/13/2023