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Xcel Energy Data Request No. 1-3
Docket No.: EL24-029
Response To: South Dakota Public Utilities Commission Staff
Requestor: Logan Schaeffbauer
Date Received: September 16, 2024

Question:

Refer to Attachment 2 lines 93-97, are all of these projects located in the same location? Provide, in detail, what each of these projects are and how they work with each other.

Response:

All these projects are located on Monticello Nuclear Power Plant Property.

A.0000033.050 MT Groundwater Monitor and Pumping Wells

Enhance the Well Monitoring System (WMS).

Initiate response action activities:

Install twenty-six (26) new groundwater monitoring wells.

Install two (2) new 2-inch diameter wells at Access Control for the purpose of groundwater extraction.

Install five (5) new pumping wells around the plant buildings for the purpose of groundwater extraction.

A.0000033.051 MT Ground Water Monitoring Initiative

Install initial permanent reservoir (pond) that will hold 10 million gallons of groundwater. Scope includes a pump house, power, piping, and pond cover. Removal of impediments such as sewer lines, power lines, and fiber that are in the construction/excavation zone will be relocated as required.

A.0000017.306 MT Ground Water Hardening

There are seven (7) In-scope Pumping Wells (PW): PW-1, PW-4A, PW-9, PW-13A, PW-16A, PW-23A, and PW-30.

The Groundwater Hardening Project has three main objectives:

1. Build permanent housing around the Pumping Wells to protect them year-round from the elements.
2. Install permanent power / heating such that Pumping Wells can perform their function year-round (i.e., don't freeze)

3. Install permanent double walled piping to route water from Pumping Wells to tanks to retention pond for long term storage.

A.0000033.059 MT Groundwater Mitigation Phase 2

Build 3 additional storage reservoirs (ponds) ~24-million-gallon total capacity. Each section of the reservoir will have its own system for filling and removing water, level control and leak detection. Each reservoir will have a state approved robust liner system to ensure compliance. Local and state permitting is required, control houses will need to be constructed, countermeasures for freezing will be added. Removal of impediments such as sewer lines, power lines, and fiber that are in the construction/excavation zone will be relocated as required.

A.0000017.305 MT Lake Tank

The work scope includes purchase of two Lake Tanks and associated floating lids. The vendor will deliver and install the tanks on-site near the new reservoir site. The lake tanks are a temporary storage device until construction is completed.

System Combined Operation

Xcel Energy constructed storage reservoir (pond 1) with a capacity of 10 million gallons; this effort was completed under the MT Ground Water Monitoring Initiative. Subsequently, the Company installed monitoring and pumping wells in support of the groundwater project, providing the station with the ability to pump from these locations to the storage reservoirs. The additional reservoir was built to store approximately an additional 24 million gallons of water. During the construction of the reservoir, Lake Tanks were purchased to support intermediate and temporary storage of groundwater until completion of reservoir and in support of testing the liners prior to final filling.

Preparer: Justin DeHarty
Title: Director, Nuclear Fleet
Department: HQ Project Management Office
Telephone: 651-267-6220
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