

Docket Number: EL16-025
Subject Matter: First Data Request
Request to: TSP
Request from: South Dakota Public Utilities Commission Staff
Date of Request: August 11, 2016
Responses Due: August 29, 2016

1-1) Please explain the need, or purpose of, installing a back-up generator for the Complex.

TSP Response: Dow Rummel currently has an emergency back-up generator for the rest of their facility. The Owner would like all residents to have similar amenities. The Owner also intends to use the generator in the Xcel Energy's curtailment/load shedding program.

1-2) Please explain why individual meters for the Village North Complex cannot be used in conjuncture with a back-up generator. If cost is the main factor, please provide the estimated cost of installing a generator with individual meters and the estimated cost of installing a generator with master meters.

TSP Response: The automatic transfer switch(es) (ATS) need to be installed on the load side of the meter(s) so that when the generator runs, the utility meter is not spinning. If the individual meters would be required to remain, this would mean adding an ATS for each individual resident unit. There are 54 resident units so 54 ATSs would be required. Adding approximately \$220,000 of cost to the project (above the installation for a generator with a master meter). These ATSs would also require physical space to mount them, which would require eliminating an underground parking spot for the space for this equipment.

1-3) Please provide the estimated cost savings to be gained from master metering the two buildings, including the avoided monthly charges and avoided administrative cost burdens.

TSP Response: The meter charges for the 54 individual meters are approximately \$1058.50 per month (base charge of \$8.25/mo/unit plus fuel charge of \$9.50/mo/unit plus \$100/mo for accounting). The monthly burden is the time spent sending in individual payments for each unit. This account time is approximately one hour or \$100 per month. The total monthly savings by going to master metering is approximately \$12,702 per year.

1-4) Please explain how any cost savings as a result of master metering the Village North Complex will be passed on to the residents.

TSP Response: The residents in Village North, along with the other residents in Dow Rummel, are currently charged a single monthly fee for the space(s) they occupy, campus amenities, and health care services they receive. As a nonprofit corporation, almost all of their annual

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operating costs are covered by the resident's fees. Reducing their operating utility costs would allow them to pass these savings on to the residents at Dow Rummel. Also, the residents of Village North will be getting backup power of a generator so they can fully use the entire facility if there is a power outage, making them feel more secure and safe.

- 1-5) In accordance with ARSD 20:10:26:05(3), please identify if master metering the buildings will have any effect on energy efficiency and energy conservation.

TSP Response: Allowing Dow Rummel to go to master metering, and Dow Rummel participating in the Xcel Energy's curtailment/load shedding program, will conserve energy in allowing Xcel Energy to manage their high demand times.