

**STATE OF NORTH DAKOTA
BEFORE THE
NORTH DAKOTA PUBLIC SERVICE COMMISSION**

NORTHERN STATES POWER COMPANY
ADVANCE PRUDENCE – 151.2MW DAKOTA
RANGE III WIND FACILITY

CASE NO. PU-18-430
OAH FILE NO. 20190018

**NSP Late-Filed Exhibit 1 – Transmission Network Upgrades Required for the
Interconnection of the Dakota Range III Wind Facility**

According to Engie, the owner of Dakota Range III, the total cost of Network Upgrades assigned to the project are approximately **[TRADE SECRET BEGINS
TRADE SECRET ENDS]** This includes upgrades outlined in the Generator Interconnection Agreement for the interconnection facilities as well as several Multi-Party Facility Construction Agreements in which Dakota Range III shares the costs obligation associated with those upgrades.

The main Network Upgrades required for the interconnection of Dakota Range III are as follows:

- Construction of the Big Stone to Brown Valley 230 kV Line
- Upgrading the Boundurant-Montezuma 345 kV transmission line to 1,079.3 MVA
- Installation of a 100 MVAR Switched Cap Bank at the Montezuma 345 kV Substation
- Installation of a 150 MVAR Capacitor Bank at the Blackhawk 345 kV Substation
- Installation of a 50 MVAR Capacitor Bank at the Midport 161 kV Substation
- Installation of a 25 MVAR Capacitor Bank at the J438 Project's point of interconnection
- Upgrading the Haninson-Wahpeton 230 kV transmission line to 494.3 MVA
- Installation of certain upgrades at the Big Stone Terminal
- Installation of certain equipment at the Blair Switch Terminal
- Installation of a new 230/115 kV transformer at the Big Stone Substation