

Duke Energy Ohio
Case No. 20-0347-EL-BNR
STAFF Second Set of Data Requests
Date Received: August 26, 2020

STAFF-DR-02-002

REQUEST:

Please provide the loading details of the “heavily loaded distribution line” or transmission system to support the need for additional capacity.

RESPONSE: The Maineville Bank 1 is 100% loaded in summer and load continues to grow in this area. Maineville substation is at the edge of the 12 kV distribution system and it is not possible to switch out the transformer most of the time throughout the year. A tie feeder, Park “44”, is heavily loaded at 94% as well. If the transformer in Bank 1 is lost, many customers will be unable to be picked up due to low voltage and overloading the nearest tie feeders, like Park “44”. Even during low load times, it is very difficult to switch out the existing transformer for a planned outage.

The solution to this issue is to erect a second 22.4 MVA transformer, voltage regulation, switchgear and associated equipment (proposed Maineville Bank 2) to help alleviate the load on the existing Maineville Bank 1. This solution will help with load and reliability in the area.

PERSON RESPONSIBLE: Dane Vandewater