FILE

BEFORE
THE OHIO POWER SITING BOARD

In the Matter of the Application of Duke Energy Madison II, LLC for a Certificate of Environmental Compatibility and Public Need to Construct 640 MW Peaking Facility in Butler County, Ohio.	)))))	Case No. 00-1566-EL-BGN

RESPONSE OF DUKE ENERGY MADISON II, LLC TO THE STAFF'S SECOND SET OF DATA REQUESTS

Pursuant to Ohio Administrative Code ("OAC") Rule 4906-7-07(D), Applicant, Duke Energy Madison II, LLC ("Duke Energy Madison II"), responds to the following interrogatories and requests for production of documents propounded by the Staff of the Ohio Power Siting Board as follows:

1. **Provide the following information regarding the gas transmission lines supplying the proposed primary and alternative sites:**

   (a) **gas pipeline company owner,**

   (b) **name/number/designator of pipeline,**

   (c) **diameter of pipeline,**

   (d) **MAOP (maximum allowable operating pressure) of pipeline,**

   (e) **normal operating pressure,**

   (f) **maximum throughput of the pipeline, corresponding to d above,**

   (g) **normal throughput of the pipeline, corresponding to e above.**

ANSWER:

(a) Texas Eastern Transmission Corporation

(b) Line No. 1

(c) 24-inch

(d) 800 psig

(e) 600 psig - 700 psig

(f) 610 MMCFD

(g) 530 MMCFD

2. **Provide an explanation of the maximum consumption of the proposed installation, per hour in MMcf.**

ANSWER:

The maximum natural gas consumption of the proposed facility changes with ambient air conditions. If the proposed facility operates during winter months, the maximum consumption at a temperature of -22 degrees Fahrenheit would be 1.19 MMcf/hour per turbine or 9.52 MMcf/hour for all eight turbines. If the proposed facility operates during summer months, the maximum consumption at 103 degrees Fahrenheit would be 0.94 MMcf/hour per turbine or 7.52 MMcf/hour for all eight turbines. At an annual average temperature of 52 degrees Fahrenheit, the maximum consumption would be 1.00 MMcf/hour per turbine or 8.00 MMcf/hour for all eight turbines.

3. **Identify the maximum consumption of the fuel oil intended to be utilized at the proposed generating station, per hour in gallons.**

ANSWER:

The maximum fuel oil consumption of the proposed facility changes with ambient air conditions. If the proposed facility operates during winter months,

the maximum consumption at a temperature of -22 degrees Fahrenheit would be 8,549 gallons/hour per turbine or 68,392 gallons/hour for all eight turbines. If the proposed facility operates during summer months, the maximum consumption at 103 degrees Fahrenheit would be 6,244 gallons/hour per turbine or 49,953 gallons/hour for all eight turbines. At an annual average temperature of 52 degrees Fahrenheit, the maximum consumption would be 7,289 gallons/hour per turbine or 58,313 gallons/hour for all eight turbines.

4. **Provide information describing the percentage of time that the proposed facility is intended to run at the maximum rate of consumption?**

ANSWER:

The proposed facility has requested environmental permits to operate up to 2,500 hours per year on natural gas only, or, up to 2,000 hours per year on natural gas and up to 500 hours per year on fuel oil. The operational plan for the proposed facility is to operate all eight turbines at full capacity during the hours that the facility is operating. The actual number of operating hours per year, up to 2,500, is dependent upon various supply and demand variables of the wholesale electric marketplace.

5. **Identify the anticipated times of operation (e.g. 90% July and August, 10% January).**

ANSWER:

Duke Energy Madison II, LLC anticipates that the facility will operate only during peak electric load demand periods. In Ohio and the Midwest, these

periods typically occur during the summer months of the year, on weekdays from 7:00 a.m. to 11:00 p.m. However, it is possible that peak electric load demand periods could occur during the winter months in Ohio and the Midwest. Duke Energy Madison II, LLC anticipates that approximately 90% of a typical year's total operating hours (maximum 2,500 hours per year), will occur during the months of June, July, and August. The remaining 10% of the annual hours will occur sporadically throughout the remaining months of the year.

6. **Provide a summary of the plan to contract for adequate natural gas capacity to supply the proposed project.**

   (a) Will the contract likely be for "firm" delivery service?

   (b) Will the contract likely be for whole year, seasonal, or some combination portfolio?

ANSWER:

Natural gas capacity for the proposed project will be acquired through a portfolio of firm, capacity release, and possibly interruptible, contract arrangements. A marketing and trading affiliate of Duke Energy Madison II, LLC actively trades and markets a significant quantity of natural gas on the Texas Eastern pipeline system and will manage the natural gas requirements of the proposed project as part of its portfolio of trading and marketing activities.

(a) A portion of the proposed project's natural gas requirements will be provided under firm contract arrangements.

(b) The proposed project's natural gas requirements will be provided under a portfolio of long-term and short-term arrangements.

7. **Identify the percentage of capacity of the pipeline(s) expected to be required to supply the project of the pipeline(s) selected to supply natural gas for the proposed project.**

ANSWER:

TETCO Line No. 1 capacity of 610,000 MMBtu/day = 25,417 MMBtu/hour.

25,417 MMBtu/hour divided by 1,000 = 25.417 MMcf/hour.

Therefore: If the proposed project operates during winter months at maximum natural gas consumption (-22 degrees Fahrenheit), then approximately 37 % of TETCO Line No. 1 would be utilized. If the proposed project operates during summer months at maximum natural gas consumption (103 degrees Fahrenheit), then approximately 30 % of TETCO Line No. 1 would be utilized.

8. **Provide any and all studies performed to assure fuel availability and pipeline capacity for the proposed project. If existing studies or reports were utilized for these purposes, then kindly provide copies of those as well.**

ANSWER:

Duke Energy Madison II, LLC has contracted with the pipeline company to make the necessary modifications to its pipeline system to support the proposed project. The proposed project will then make arrangements, as discussed above, to utilize its marketing and trading portfolio to provide the necessary natural gas supplies for the expected operation of the facility.

9. **Identify which gas transmission line the company plans to tap to supply natural gas to the proposed generating station.**

ANSWER:

Texas Eastern Transmission Corporation, Line No. 1

10. **Identify how the plant will be supplied during any gas transmission interruptions if the application for this project is approved to run 8760 hours per year less required maintenance outages.**

ANSWER:

The proposed project is expected to run no more than 2,500 hours per year, or no more than approximately 28% of the year.

CERTIFICATE OF SERVICE

I hereby certify that a true copy of the foregoing **RESPONSE OF DUKE ENERGY MADISON II, LLC TO THE STAFF'S SECOND SET OF DATA REQUESTS** was served by regular U.S. mail, postage prepaid, or hand-delivered, upon the following parties of record, this 26th day of January 2001.

Sally W. Bloomfield

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