

## Attachment H

Letter from Terry C. Arellano, North Carolina Department of Transportation  
to  
William M. Miller, Duke Energy  
providing traffic data in the vicinity of McGuire  
dated, December 27, 2000

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STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

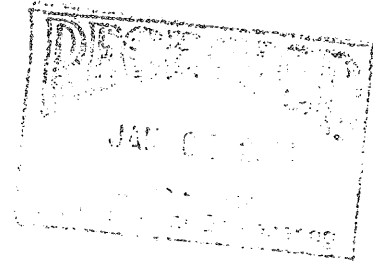
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December 27, 2000

Mr. William M. Miller, P.E.  
Duke Energy Corporation  
P.O. Box 1006  
Charlotte, NC 28200-1006  
Mail Code EC12ZB



Subject: Traffic Data in the Vicinity of McGuire Nuclear Station, Mecklenburg County

Dear Mr. Miller:

Enclosed please find the available traffic information at the locations requested in your April 26, 2000 memorandum to Mr. Jamal Alavi. The traffic count data and subsequent levels-of-service for the requested locations are presented in Table 1.

For your information, I assumed the Mecklenburg-Union Metropolitan Planning Organization Coordinator's position in May 2000 and Mr. Alavi forwarded your request to me in July 2000.

If you have any questions concerning the information enclosed, you may contact me by telephone (919-715-5737) or by email ([arellano@dot.state.nc.us](mailto:arellano@dot.state.nc.us)).

Sincerely,

Terry C. Arellano, P.E.  
Transportation Engineer

Attachment

cc: Mr. Bill Coxe, Town of Huntersville (w/attachment)  
Mr. Dan Thomas, P.E., Statewide Planning Branch  
Mr. Jamal Alavi, P.E., Statewide Planning Branch

**Table 1. Traffic Data in the Vicinity of the McGuire Nuclear Station**

Intersection		1999 AADT <sup>1</sup> (vehicles/day)	Level of Service <sup>2</sup>
L-1	NC 73 west of NC 16	9500	B
	NC 73 east of NC 16	15000	D
	NC 16 north of NC 73	15000	D
	NC 16 south of NC 73	1400	B
L-2	NC 73 west of SR 1394	15000	D
	NC 73 east of SR 1394	15000	D
	SR 1394 north of NC 73	4900	B
	SR 1394 south of NC 73	2800	B
L-3	NC 73 west of SR 1396	15000	D
	NC 73 east of SR 1396	15000	D
	SR 1396 south of NC 73	800	B
M-1	NC 73 south of SR 5544	17000	E
	NC 73 east of SR 5544	23000	D
	SR 5544 north of NC 73	8400	B
M-2	NC 73 west of SR 2136	n/a	n/a
	NC 73 east of SR 2136	17000	E
	SR 2136 south of NC 73	6000	B
M-3	NC 73@McGuire Station Entrance	n/a	n/a
M-4	NC 73@McGuire Station Entrance	n/a	n/a

<sup>1</sup> Average Annual Daily Traffic count data compiled by NCDOT Traffic Surveys Unit

<sup>2</sup> LOS based upon Capacity-LOS relationship as expressed in Table 2

**Table 2. Capacity-LOS Relationship**

Facility	Conditions	Maximum AADT by Level of Service <sup>1</sup>				
		A	B	C	D	E
NC 73						
• West of NC 16 to SR 5544	2 ln, var. pav. width, no signals	n/a	10000	14400	15600	15600
• From SR 5544 eastward	4 ln, 48' pav. width, no signals	n/a	16500	22875	24600	24600
NC 16	2 ln, 24' pav. width, no signals	n/a	10000	14400	15600	15600
SR 1394	2 ln, 18' pav. width, no signals	n/a	10000	14400	15600	15600
SR 1396	2 ln, 20' pav. width, no signals	n/a	10000	14400	15600	15600
SR 2136	2 ln, 24' pav. width, no signals	n/a	10000	14400	15600	15600
SR 5544	2 ln, 24' pav. width, no signals	n/a	10000	14400	15600	15600

<sup>1</sup> Table 5-5, 1998 *Level of Service Handbook*, Florida Department of Transportation