

Duke PMC, TRT  
12/1/99

# Model Clearinghouse Information Storage and Retrieval System

## Record Information Report

Record Number: 00-IV ~~07~~ <sup>01</sup> Fiscal Year: 1900 Region: 04 Last Update:  
Name: Duke Power Cliffside-Sept 99 12/20/99

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State(s): NORTH CAROLINA  
Pollutant(s): SO2  
Regulation(s): Compliance Order  
SIP  
Source(s): Power Plant  
Model(s): ISC3  
Subject(s): Data Processing  
Monitored Background  
Representativeness of Meteorological Data  
Urban/Rural: Rural Only  
Oral/Written: Oral  
Terrain: Low Terrain (below stack height)  
Guideline: Guideline  
Database: Off-site  
Involvement: Review and Comment  
Record Comments:

### RECORD OF COMMUNICATION

☐ TELEPHONE CALL ☐ MEETING ☒ CONFERENCE CALL ☐ OTHER  
INFORMATION COPIES TO: Brenda Jim Roller, Warren Peters  
TO: D. Wilson, B. Johnson  
FROM: J. Roller, NC  
DATE: 11/10/99  
TIME:

SUBJ: Duke Power Cliffside

### SUMMARY OF COMMUNICATION:

#### Background:

The source wants to model the facility using a distant (42km away) monitor to derive

background data as allowed by Section 9.2.2 in the Guideline on Air Quality Models. However, instead of using the HSH or some other value for background the

source wants to segregate the data by wind direction, wind speed and stability.

The

average hourly background for each met condition would be determined. They would then model to find the HSH modeled concentration, determine the met conditions

for  
each hour of that day, then determine the background by adding in the average  
background for each respective hour of that day to determine the 24 hour  
background  
to be added to the HSH 24 hour concentration. The same would be done for the 3  
hour. For the annual background the average for the year would be used. The  
source  
argues that this scheme is the same as is used for a nearby monitor as described  
in  
Section 9.2.2 (b). They reason that since the terrain and other considerations  
are  
similar at the monitor, it should be just as representative as a nearby monitor.  
The

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Date: 12/20/99

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