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**REFERENCE**

CATAWBA NUCLEAR STATION  
SELECTED LICENSEE COMMITMENTS

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G R PETERSON  
VICE PRESIDENT  
CATAWBA NUCLEAR SITE

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100A

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**Duke Power**  
Catawba Nuclear Station  
4800 Concord Road  
York, SC 29745  
(803) 831-3000

March 15, 2001

RE: Catawba Nuclear Station  
Selected Licensee Commitments Manual  
Revision Date 03/13/01

Attached are revisions to the Catawba Nuclear Station Selected Licensee Commitments Manual.  
Please remove and replace the following pages:

**REMOVE**

**INSERT**

**LIST OF EFFECTIVE PAGES**

Page 2 dated 02/24/01

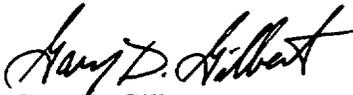
Page 2 dated 03/13/01

**TAB 16.7**

Chapter 16.7-3, pages 1-4 of 4  
dated 01/17/00

Chapter 16.7-3, pages 1-5 of 5  
dated 03/13/01

If you have any questions concerning the contents of this package update, contact Toni Pasour at (803) 831-3566.

  
Gary D. Gilbert  
Regulatory Compliance Manager

**CATAWBA NUCLEAR STATION  
SELECTED LICENSEE COMMITMENTS MANUAL**

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**16.7**            **INSTRUMENTATION**

**16.7-3**           **METEOROLOGICAL INSTRUMENTATION**

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**COMMITMENT:**

- a.     The meteorological monitoring instrumentation channels shown in Table 16.7-3A shall be OPERABLE.
  
- b.     The meteorological monitoring instrumentation channels shown in Table 16.7-3C shall be maintained to ensure 90% data recovery on an annual basis.

**APPLICABILITY:**

At all times.

**REMEDIAL ACTION:**

- a.     With one or more required meteorological monitoring channels inoperable for more than 7 days, prepare and submit a Special report to the Commission within the next 10 days outlining the cause of the malfunction and the plans for restoring the channel(s) to OPERABLE status.
  
- b.     With one or more required meteorological monitoring channels having less than 90% annual data recovery, prepare and submit a Special Report to the Commission within 10 days of determining the missed requirement, outlining the cause of the deficiency and the plans for restoring the annual data recovery goals.

**TESTING REQUIREMENTS:**

- a.     Each of the above meteorological monitoring instrumentation channels shall be demonstrated OPERABLE by the performance of a CHANNEL CHECK and Instrument Calibration at the frequencies shown in Table 16.7-3B.

**REFERENCES:**

N/A

**BASES:**

The OPERABILITY of the meteorological instrumentation ensures that sufficient meteorological data is available for estimating potential radiation doses to the public as a result of routine or accidental release of radioactive materials to the

**BASES: (cont'd)**

atmosphere. This capability is required to evaluate the need for initiating protective measures to protect the health and safety of the public and is consistent with the recommendations of Regulatory Guide 1.23, "Onsite Meteorological Programs," February 1972, for wind speed, wind direction, and air temperature at two elevations. Precipitation is not required by Regulatory Guide 1.23, Revision 0. However, it is monitored since it is used by the model for offsite dose assessment calculations.

The greater than or equal to 90% annual data recovery goal is to ensure that the meteorological instrumentation is maintained to minimize extended periods of instrument outage. The reporting cycle is a calendar year (January 1 through December 31). A 60-day period from the end of the calendar year is allowed for data reduction, validation, and data quality assurance, before the data recovery report is generated.

An Instrument Calibration will consist of the following test:

- 1) A bench based test, certification, and/or calibration of the tower mounted sensors for:
  - Wind Speed
  - Wind Direction
  - Ambient and Delta Temperature RTD's
- 2) An Instrument Loop Calibration from the input of the signal processors to the end devices.
- 3) For Wind Direction a Line Phase Differential Compensation will be performed, which includes the tower signal cable.
- 4) For Precipitation, a measured volume of water will be poured into the sensor and the signal conditioner module's output verified correct.
- 5) A CHANNEL CHECK, subsequent to any work performed. This will verify continuity of the signal cable between the sensor and signal processors.
- 6) The Wind Speed Sensors and cup-sets or Wind Direction Sensors and Vanes do not require wind tunnel testing as an assembly.
- 7) Replacement of cup-sets or vanes does not require an Instrument Calibration of the affected channel.

**TABLE 16.7-3A**

**METEOROLOGICAL MONITORING INSTRUMENTATION**

<b><u>INSTRUMENT</u></b>	<b><u>LOCATION</u></b>	<b><u>MINIMUM OPERABLE</u></b>
1. Wind Speed		
a. Meteorological Tower	Nominal Elev. 663.5 ft.	1
b. Meteorological Tower	Nominal Elev. 830.5 ft.	1
2. Wind Direction		
a. Meteorological Tower	Nominal Elev. 663.5 ft.	1
b. Meteorological Tower	Nominal Elev. 830.5 ft.	1
3. Air Temperature		
a. Ambient Meteorological Tower	Nominal Elev. 660.25 ft.	1
b. $\Delta$ - T Meteorological Tower	Nominal Elev. 827.25-660.25 ft.	1
4. Precipitation		
a. Precipitation Sensor Pad (Near Meteorological Tower)	Nominal Elev. 630.0 ft.	1

Note: Elevations are feet above Mean Sea Level  
Item 4 is not required by Regulatory Guide 1.23, Revision 0

**TABLE 16.7-3B**

**METEOROLOGICAL MONITORING INSTRUMENTATION**  
**SURVEILLANCE REQUIREMENTS**

<b><u>INSTRUMENT</u></b>	<b><u>CHANNEL</u></b> <b><u>CHECK</u></b>	<b><u>CHANNEL</u></b> <b><u>CALIBRATION</u></b>
1. Wind Speed		
a. Nominal Elev. 663.5 ft	D	SA
b. Nominal Elev. 830.5 ft.	D	SA
2. Wind Direction		
a. Nominal Elev. 663.5 ft	D	SA
b. Nominal Elev. 830.5 ft.	D	SA
3. Air Temperature		
a. Ambient Nominal Elev. 660.25 ft.	D	SA
b. $\Delta$ - T Nominal Elev. 827.25-660.25 ft.	D	SA
4. Precipitation		
a. Nominal Elev. 630.0 ft.	D	SA

Note: Elevations are feet above Mean Sea Level

**TABLE 16.7-3C**

**METEOROLOGICAL MONITORING INSTRUMENTATION DATA RECOVERY  
REQUIREMENTS**

<b><u>INSTRUMENT</u></b>	<b><u>LOCATION</u></b>	<b><u>TYPE</u></b>
1. 60M Joint Data Recovery		Joint
a. Wind Speed	Nominal Elev. 830.5 ft.	
b. Wind Direction	Nominal Elev. 830.5 ft.	
c. Delta Temperature	Nominal Elev. 827.25 – 660.25 ft.	
2. 10M Joint Data Recovery	Nominal Elev. 663.5 ft.	Joint
a. Wind Speed	Nominal Elev. 663.5 ft.	
b. Wind Direction	Nominal Elev. 663.5 ft.	
c. Delta Temperature	Nominal Elev. 827.25 – 660.25 ft.	
3. Ambient Air Temperature	Nominal Elev. 660.25 ft.	Individual
4. Precipitation	Nominal Elev. 630.0 ft.	Individual

Note: Elevations are feet above Mean Sea Level