

Duke Power Company  
Catawba Nuclear Station  
4800 Concord Road  
York, SC 29745

(803)831-3000

50-413/414



**DUKE POWER**

February 12, 1997

RE: Catawba Nuclear Station  
Selected License Commitment Manual

Please add the following new Selected License Commitments (SLC):

- 16.8.2 - 230 KV Switchyard Systems
- 16.8.3 - 230 KV Switchyard 125 VDC Power System
- 16.10.2 - Condenser Circulating Water System

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If you have any questions concerning contents of this package update, contact  
Denise Smith at 803-831-3810.

*Gwenyth Powell* FOR  
M.S. Kitlan, Jr., Manager  
Regulatory Compliance - CNS

Attachments

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## 16.8            ELECTRICAL POWER SYSTEMS

### 16.8.2        230 KV SWITCHYARD SYSTEMS

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#### COMMITMENT:

The following Switchyard equipment shall be in its normal alignment:

- a.     Switchyard Unit 1 PCBS 14, 15, 17, and 18 including their associated Manual Disconnects, Current Transformers, Interconnecting Bus, and Support Structures (EBA system).
- b.     Switchyard Unit 2 PCBS 20,21,23, and 24 including their associated Manual Disconnects, Current Transformers, Interconnecting Bus, and Support Structures (EBA system).
- c.     Buslines 1A, 1B (from Main Stepup Transformers to Switchyard Unit PCBs), including their associated Motor Operated Disconnects, Coupling Capacitor Voltage Transformers, Interconnecting Bus, and Support Structures (EBA system).
- d.     Buslines 2A, 2B (from Main Stepup Transformers to Switchyard Unit PCBs), including their associated Motor Operated Disconnects, Coupling Capacitor Voltage Transformers, Interconnecting Bus, and Support Structures (EBA system).
- e.     Controls associated with the equipment above (EBE, ERE systems).
- f.     Protective Relaying associated with the equipment above (EBD, ERD systems).
- g.     480 VAC Aux Power Load Centers STA for both Units Train A, STB for both Units Train B (ER<sup>I</sup> system).
- h.     125 VDC Aux Power (EBH system). See SLC 16.8-3.

#### APPLICABILITY:

At all times in accordance with Technical Specifications (all Modes) and Site Directive 3.1.30 (Modes 4, 5, & 6).



### **REMEDIAL ACTIONS:**

Return Switchyard equipment to the normal commitment alignment in accordance with Risk Assessment Matrix priorities.

### **TESTING REQUIREMENTS:**

None

### **REFERENCES:**

10 CFR 50.65, Requirements for Monitoring the Effectiveness of Maintenance at Nuclear Power Plants

WPM 607, Maintenance Rule Assessment of Equipment out of Service

CNC-1535.00-00-0008, Severe Accident Analysis Report, CNS PRA Risk Significant SSCs for the Maintenance Rule.

CNS-010.01-EB-0001, Switchyard Design Basis Specification

TECH SPEC sections 3.8.1.1. and 3.8.1.2, LCOs for AC Power Sources during Operating and Shutdown modes

SITE DIRECTIVE 3.1.30, Unit Shutdown Configuration Control

### **BASES:**

Effective implementation of the Maintenance Rule, 10 CFR 50.65, requires the continuous assessment of systems determined to be Risk Significant in the protection against Core Damage or Radiation Release. It has been determined through PRA numerical methods that Switchyard Systems are Risk Significant from the standpoint of causing or being able to recover from Loss of Offsite Power Events. This SLC serves two purposes. It defines the Risk Significant portions of the Switchyard. It also provides a method of tracking the Switchyard Systems for the purposes of supporting 10 CFR 50.65 and WPM 607.

## **16.8**      **ELECTRICAL POWER SYSTEMS**

### **16.8.3**      **230 KV SWITCHYARD 125 VDC POWER SYSTEM**

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#### **COMMITMENT:**

With the Switchyard in service, providing a power exchange between the site and the transmission grid, the 230 KV Switchyard 125 VDC Power System (EBH) shall be AVAILABLE, with a minimum of one battery (SYB-1 or SYB-2) and one charger (SYBC-1, SYBC-S, or SYBC-2) aligned to each distribution bus. This will provide an adequate, uninterruptable power source for relaying, control, and associated equipment requirements for normal switchyard operations.

#### **APPLICABILITY:**

At all times.

#### **REMEDIAL ACTION:**

Restore to the normal commitment alignment in accordance with the Risk Assessment Matrix priorities.

#### **TESTING REQUIREMENTS:**

Periodic Tests performed in accordance with the IEEE Std 450-1980, "IEEE Recommended Practice for Maintenance, Testing, and Replacement of Large Lead Storage Batteries for Generating Stations and Substations".

#### **REFERENCES:**

IEEE Std 450-1980, "IEEE Recommended Practice for Maintenance, Testing, and Replacement of Large Lead Storage Batteries for Generating Stations and Substations".

WPM 607, Maintenance Rule Assessment of Equipment out of Service

10 CFR 50.65, Requirements for Monitoring the Effectiveness of Maintenance at Nuclear Power Plants.

SAAG File: 160 Severe Accident Analysis Report, CNS Probability Risk Assessment (PRA) Risk Significant SSCs for the Maintenance Rule.

## **BASES:**

The effective implementation of the Maintenance Rule, 10 CFR 50.65, requires the continuous assessment of systems determined to be Risk Significant in the protection against Core Damage or Radiation Release. It has been determined through PRA numerical methods that portions of the Switchyard Systems are Risk Significant from the standpoint of being able to recover from the Loss of Offsite Power Events. This SLC serves two purposes. It defines the Risk Significant portion of the Relaying and Power Control System of the Switchyard through acceptable EBH system configuration alignments. It also provides a method of tracking the Relaying and Power Control System for the purposes of supporting 10 CFR 50.65 and WPM 607.

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**16.10**      **STEAM AND POWER CONVERSION SYSTEM**

**16.10.2**    **CONDENSER CIRCULATING WATER SYSTEM**

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**COMMITMENT:**

With the Condenser Cooling Water System (RC) partially or completely filled, the system boundaries within the Turbine Building and RC pump pit shall be in their normal alignment.

**APPLICABILITY:**

All Plant conditions which require the availability of the 6900/4160V Essential Transformers: (SATA, SATB, 1ATC, 1ATD, 2ATC, 2ATD) for EITHER Train and for EITHER Unit.

**REMEDIAL ACTION:**

Restore the RC System boundaries to the normal commitment alignment in accordance with the Risk Assessment Matrix priorities.

**TESTING REQUIREMENTS:**

None

**REFERENCES:**

CNS FSAR, Section 10.4.5.3

WPM 607, Maintenance Rule Assessment of Equipment out of Service

10 CFR 50.65, Requirements for Monitoring the Effectiveness of Maintenance at Nuclear Power Plants.

SAAG File: 160 Severe Accident Analysis Report, CNS Probability Risk Assessment (PRA) Risk Significant SSCs for the Maintenance Rule

## **BASES:**

The effective implementation of the Maintenance Rule, 10 CFR 50.65, requires the continuous assessment of systems determined Risk Significant in the protection against Core Damage or Radiation Release. It has been determined through PRA numerical methods that this system function provides a significant contribution to the defense in the prevention of a Loss of Offsite Power Event. This SLC serves two purposes.

(1) It defines the Risk Significant concerns of the Condenser Circulating Water, RC System integrity with respect to flooding EITHER Units 6900/4160V Essential Transformers. A failure to control the RC system inventory while partially or completely full has the potential consequence of degrading the power function of the 6900/4160 V Essential Transformers for either or both units. Damage to these transformers may result in either the Loss of Offsite Power (LOOP) or a significant decrease in the defense of Accident Mitigating Equipment. The concern from this event includes either RC System of Unit 1 or Unit 2 leading to the affect on either Unit/Train transformers.

(2) This SLC also provides a method of tracking this function for intersystem configuration control of the Essential Transformers and their susceptibility to flooding through support of WPM 607 and 10 CFR 50.65.