



Gary R. Peterson
Vice President

Duke Power
Catawba Nuclear Station
4800 Concord Road
York, SC 29745
(803) 831-4251 OFFICE
(803) 831-3426 FAX

February 23, 2000

U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555-0001

Subject: Duke Energy Corporation
Catawba Nuclear Station
Docket Nos. 50-413 and 50-414
UFSAR/Selected Licensee Commitment Changes

Pursuant to 10CFR 50.71(e), please find attached changes to the Catawba Nuclear Station Selected Licensee Commitments Manual. This document constitutes Chapter 16 of the Updated Final Safety Analysis Report (UFSAR).

Any questions regarding this information should be directed to L.J. Rudy, Regulatory Compliance, at (803) 831-3084.

I certify that I am a duly authorized officer of Duke Energy Corporation, and that the information contained herein accurately represents changes made to Chapter 16 of the UFSAR since the previous submittal, necessary to reflect information and analyses submitted to the Commission or prepared pursuant to Commission requirement.

Gary R. Peterson

Attachment

A053

U.S. Nuclear Regulatory Commission
February 23, 2000
Page 2

xc:L. A. Reyes, Regional Administrator
U. S. Nuclear Regulatory Commission, Region II

C. P. Patel, Project Manager
U.S. Nuclear Regulatory Commission
Office of Nuclear Reactor Regulation, Mail Stop 0-8 H12

D. J. Roberts
Senior Resident Inspector
Catawba Nuclear Station



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

February 23, 2000

RE: Catawba Nuclear Station
Selected Licensee Commitments Manual
Revision Date 01/17/00

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

Pages 1-8 of 8

TAB 16.1

Pages 1-8 of 8

Chapter 16.1, page 1 of 1
dated 01/16/99

TAB 16.5

Chapter 16.1, page 1 of 1
dated 01/17/00

Chapter 16.5-6, pages 1 & 2 of 2
dated 01/16/99

TAB 16.7

Chapter 16.5-6, pages 1 & 2 of 2
dated 01/17/00

Chapter 16.7-3, pages 1 & 2 of 4
dated 03/11/99

Chapter 16.7-3, pages 1 & 2 of 4
dated 01/17/00

Chapter 16.7-3, pages 3 & 4 of 4
dated 01/16/99

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

Chapter 16.7-10, pages 1-4 of 6
dated 01/16/99

Chapter 16.7-10, pages 1-4 of 6
dated 01/17/00

Chapter 16.7-10, page 5 of 6
dated 03/11/99

Chapter 16.7-10, page 5 of 6
dated 01/17/00

Chapter 16.7-10, page 6 of 6
dated 01/16/99

Chapter 16.7-10, page 6 of 6
dated 01/17/00

Selected Licensee Commitments
Revision Date 01/17/00
Page Two

TAB 16.8

Chapter 16.8-1, pages 1-49 of 49
(Page 1 dated 05/05/99
pages 2 & 3 dated 01/16/99
pages 4-49 dated 5/04/98)

Chapter 16.8-1, pages 1-51 of 51
dated 01/17/00

TAB 16.9

Chapter 16.9-1, page 2 of 4
dated 06/10/99

Chapter 16.9-1, page 2 of 4
dated 01/17/00

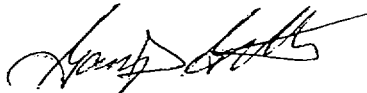
Chapter 16.9-1, pages 3 & 4 of 4
dated 01/16/99

Chapter 16.9-1, pages 3 & 4 of 4
dated 01/17/00

Chapter 16.9-2, pages 1-3 of 5
dated 01/16/99

Chapter 16.9-2, pages 1-3 of 5
dated 01/17/00

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**

List of Effective Pages

Tab 16.0

16.0 Page 1 of 4	01/16/99
16.0 Page 2 of 4	01/16/99
16.0 Page 3 of 4	01/16/99
16.0 Page 4 of 4	01/16/99

Tab 16.1

16.1 Page 1 of 1	01/17/00
------------------	----------

Tab 16.2

16.2 Page 1 of 2	01/16/99
16.2 Page 2 of 2	01/16/99

Tab 16.3

16.3 Page 1 of 4	01/16/99
16.3 Page 2 of 4	01/16/99
16.3 Page 3 of 4	01/16/99
16.3 Page 4 of 4	01/16/99

Tab 16.4

Tab 16.5

16.5-1 Page 1 of 4	01/16/99
16.5-1 Page 2 of 4	01/16/99
16.5-1 Page 3 of 4	01/16/99
16.5-1 Page 4 of 4	01/16/99
16.5-2 Page 1 of 3	04/15/99
16.5-2 Page 2 of 3	04/15/99
16.5-2 Page 3 of 3	04/15/99
16.5-3 Page 1 of 4	01/16/99
16.5-3 Page 2 of 4	01/16/99
16.5-3 Page 3 of 4	01/16/99
16.5-3 Page 4 of 4	01/16/99
16.5-4 Page 1 of 1	01/16/99
16.5-5 Page 1 of 2	01/16/99
16.5-5 Page 2 of 2	01/16/99
16.5-6 Page 1 of 2	01/17/00
16.5-6 Page 2 of 2	01/17/00
16.5-7 Page 1 of 1	01/16/99

**CATAWBA NUCLEAR STATION
SELECTED LICENSEE COMMITMENTS MANUAL**

List of Effective Pages

Tab 16.6

16.6-1 Page 1 of 1	01/16/99
16.6-2 Page 1 of 2	01/16/99
16.6-2 Page 2 of 2	01/16/99
16.6-3 Page 1 of 2	01/16/99
16.6-3 Page 2 of 2	01/16/99
16.6-4 Page 1 of 2	01/16/99
16.6-4 Page 2 of 2	01/16/99

Tab 16.7

16.7-1 Page 1 of 2	05/04/98
16.7-1 Page 2 of 2	05/04/98
16.7-2 Page 1 of 4	01/16/99
16.7-2 Page 2 of 4	01/16/99
16.7-2 Page 3 of 4	01/16/99
16.7-2 Page 4 of 4	01/16/99
16.7-3 Page 1 of 4	01/17/00
16.7-3 Page 2 of 4	01/17/00
16.7-3 Page 3 of 4	01/17/00
16.7-3 Page 4 of 4	01/17/00
16.7-4 Page 1 of 2	09/20/99
16.7-4 Page 2 of 2	09/20/99
16.7-5 Page 1 of 2	06/10/99
16.7-5 Page 2 of 2	05/04/98
16.7-6 Page 1 of 2	01/16/99
16.7-6 Page 2 of 2	01/16/99
16.7-7 Page 1 of 2	05/05/99
16.7-7 Page 2 of 2	01/16/99
16.7-8 Page 1 of 2	01/16/99
16.7-8 Page 2 of 2	05/05/99
16.7-9 Page 1 of 4	09/20/99
16.7-9 Page 2 of 4	09/20/99
16.7-9 Page 3 of 4	09/20/99
16.7-9 Page 4 of 4	09/20/99
16.7-10 Page 1 of 6	01/17/00
16.7-10 Page 2 of 6	01/17/00
16.7-10 Page 3 of 6	01/17/00
16.7-10 Page 4 of 6	01/17/00
16.7-10 Page 5 of 6	01/17/00
16.7-10 Page 6 of 6	01/17/00
16.7-11 Page 1 of 1	01/16/99
16.7-12 Page 1 of 2	01/16/99
16.7-12 Page 2 of 2	01/16/99

**CATAWBA NUCLEAR STATION
SELECTED LICENSEE COMMITMENTS MANUAL**

List of Effective Pages

Tab 16.8

16.8-1 Page 1 of 51	01/17/00
16.8-1 Page 2 of 51	01/17/00
16.8-1 Page 3 of 51	01/17/00
16.8-1 Page 4 of 51	01/17/00
16.8-1 Page 5 of 51	01/17/00
16.8-1 Page 6 of 51	01/17/00
16.8-1 Page 7 of 51	01/17/00
16.8-1 Page 8 of 51	01/17/00
16.8-1 Page 9 of 51	01/17/00
16.8-1 Page 10 of 51	01/17/00
16.8-1 Page 11 of 51	01/17/00
16.8-1 Page 12 of 51	01/17/00
16.8-1 Page 13 of 51	01/17/00
16.8-1 Page 14 of 51	01/17/00
16.8-1 Page 15 of 51	01/17/00
16.8-1 Page 16 of 51	01/17/00
16.8-1 Page 17 of 51	01/17/00
16.8-1 Page 18 of 51	01/17/00
16.8-1 Page 19 of 51	01/17/00
16.8-1 Page 20 of 51	01/17/00
16.8-1 Page 21 of 51	01/17/00
16.8-1 Page 22 of 51	01/17/00
16.8-1 Page 23 of 51	01/17/00
16.8-1 Page 24 of 51	01/17/00
16.8-1 Page 25 of 51	01/17/00
16.8-1 Page 26 of 51	01/17/00
16.8-1 Page 27 of 51	01/17/00
16.8-1 Page 28 of 51	01/17/00
16.8-1 Page 29 of 51	01/17/00
16.8-1 Page 30 of 51	01/17/00
16.8-1 Page 31 of 51	01/17/00
16.8-1 Page 32 of 51	01/17/00
16.8-1 Page 33 of 51	01/17/00
16.8-1 Page 34 of 51	01/17/00
16.8-1 Page 35 of 51	01/17/00
16.8-1 Page 36 of 51	01/17/00
16.8-1 Page 37 of 51	01/17/00
16.8-1 Page 38 of 51	01/17/00
16.8-1 Page 39 of 51	01/17/00
16.8-1 Page 40 of 51	01/17/00
16.8-1 Page 41 of 51	01/17/00
16.8-1 Page 42 of 51	01/17/00
16.8-1 Page 43 of 51	01/17/00

**CATAWBA NUCLEAR STATION
SELECTED LICENSEE COMMITMENTS MANUAL**

List of Effective Pages

Tab 16.8 (continued)

16.8-1 Page 44 of 51	01/17/00
16.8-1 Page 45 of 51	01/17/00
16.8-1 Page 46 of 51	01/17/00
16.8-1 Page 47 of 51	01/17/00
16.8-1 Page 48 of 51	01/17/00
16.8-1 Page 49 of 51	01/17/00
16.8-1 Page 50 of 51	01/17/00
16.8-1 Page 51 of 51	01/17/00
16.8-2 Page 1 of 2	01/16/99
16.8-2 Page 2 of 2	01/16/99
16.8-3 Page 1 of 2	01/15/97
16.8-3 Page 2 of 2	01/15/97
16.8-4 Page 1 of 2	05/29/97
16.8-4 Page 2 of 2	05/29/97
16.8-5 Page 1 of 2	06/10/99
16.8-5 Page 2 of 2	06/10/99

Tab 16.9

16.9-1 Page 1 of 4	05/05/99
16.9-1 Page 2 of 4	01/17/00
16.9-1 Page 3 of 4	01/17/00
16.9-1 Page 4 of 4	01/17/00
16.9-2 Page 1 of 5	01/17/00
16.9-2 Page 2 of 5	01/17/00
16.9-2 Page 3 of 5	01/17/00
16.9-2 Page 4 of 5	01/16/99
16.9-2 Page 5 of 5	01/16/99
16.9-3 Page 1 of 4	05/05/99
16.9-3 Page 2 of 4	03/11/99
16.9-3 Page 3 of 4	05/05/99
16.9-3 Page 4 of 4	06/10/99
16.9-4 Page 1 of 5	01/16/99
16.9-4 Page 2 of 5	01/16/99
16.9-4 Page 3 of 5	01/16/99
16.9-4 Page 4 of 5	01/16/99
16.9-4 Page 5 of 5	01/16/99
16.9-5 Page 1 of 6	01/16/99
16.9-5 Page 2 of 6	01/16/99
16.9-5 Page 3 of 6	01/16/99
16.9-5 Page 4 of 6	06/10/99
16.9-5 Page 5 of 6	09/20/99
16.9-5 Page 6 of 6	01/16/99
16.9-6 Page 1 of 11	03/11/99

**CATAWBA NUCLEAR STATION
SELECTED LICENSEE COMMITMENTS MANUAL**

List of Effective Pages

Tab 16.9 (continued)

16.9-6 Page 2 of 11	03/11/99
16.9-6 Page 3 of 11	07/26/99
16.9-6 Page 4 of 11	07/26/99
16.9-6 Page 5 of 11	03/11/99
16.9-6 Page 6 of 11	07/26/99
16.9-6 Page 7 of 11	07/26/99
16.9-6 Page 8 of 11	03/11/99
16.9-6 Page 9 of 11	03/11/99
16.9-6 Page 10 of 11	05/05/99
16.9-6 Page 11 of 11	03/11/99
16.9-7 Page 1 of 2	01/16/99
16.9-7 Page 2 of 2	01/16/99
16.9-8 Page 1 of 2	01/16/99
16.9-8 Page 2 of 2	01/16/99
16.9-9 Page 1 of 2	01/16/99
16.9-9 Page 2 of 2	01/16/99
16.9-10 Page 1 of 1	01/16/99
16.9-11 Page 1 of 3	01/16/99
16.9-11 Page 2 of 3	01/16/99
16.9-11 Page 3 of 3	01/16/99
16.9-12 Page 1 of 3	01/16/99
16.9-12 Page 2 of 3	01/16/99
16.9-12 Page 3 of 3	05/05/99
16.9-13 Page 1 of 11	04/22/99
16.9-13 Page 2 of 11	04/22/99
16.9-13 Page 3 of 11	04/22/99
16.9-13 Page 4 of 11	04/22/99
16.9-13 Page 5 of 11	04/22/99
16.9-13 Page 6 of 11	04/22/99
16.9-13 Page 7 of 11	04/22/99
16.9-13 Page 8 of 11	04/22/99
16.9-13 Page 9 of 11	04/22/99
16.9-13 Page 10 of 11	04/22/99
16.9-13 Page 11 of 11	04/22/99
16.9-14 Page 1 of 2	01/16/99
16.9-14 Page 2 of 2	01/16/99
16.9-15 Page 1 of 1	01/16/99
16.9-16 Page 1 of 1	01/16/99
16.9-17 Page 1 of 1	01/16/99
16.9-18 Page 1 of 1	01/16/99
16.9-19 Page 1 of 2	01/16/99
16.9-19 Page 2 of 2	01/16/99
16.9-20 Page 1 of 1	01/16/99

**CATAWBA NUCLEAR STATION
SELECTED LICENSEE COMMITMENTS MANUAL**

List of Effective Pages

Tab 16.9 (continued)

16.9-21 Page 1 of 1	01/16/99
16.9-22 Page 1 of 2	01/16/99
16.9-22 Page 2 of 2	01/16/99
16.9-23 Page 1 of 3	05/04/98
16.9-23 Page 2 of 3	05/04/98
16.9-23 Page 3 of 3	05/04/98

Tab 16.10

16.10-1 Page 1 of 2	01/16/99
16.10-1 Page 2 of 2	01/16/99
16.10-2 Page 1 of 2	01/15/97
16.10-2 Page 2 of 2	01/15/97

Tab 16.11

16.11-1 Page 1 of 7	01/16/99
16.11-1 Page 2 of 7	01/16/99
16.11-1 Page 3 of 7	01/16/99
16.11-1 Page 4 of 7	09/20/99
16.11-1 Page 5 of 7	09/20/99
16.11-1 Page 6 of 7	01/16/99
16.11-1 Page 7 of 7	01/16/99
16.11-2 Page 1 of 6	01/16/99
16.11-2 Page 2 of 6	01/16/99
16.11-2 Page 3 of 6	09/20/99
16.11-2 Page 4 of 6	09/20/99
16.11-2 Page 5 of 6	09/20/99
16.11-2 Page 6 of 6	09/20/99
16.11-3 Page 1 of 2	01/16/99
16.11-3 Page 2 of 2	01/16/99
16.11-4 Page 1 of 2	01/16/99
16.11-4 Page 2 of 2	01/16/99
16.11-5 Page 1 of 3	08/01/94
16.11-5 Page 2 of 3	08/01/94
16.11-5 Page 3 of 3	08/01/94
16.11-6 Page 1 of 7	01/16/99
16.11-6 Page 2 of 7	01/16/99
16.11-6 Page 3 of 7	01/16/99
16.11-6 Page 4 of 7	01/16/99
16.11-6 Page 5 of 7	01/16/99
16.11-6 Page 6 of 7	01/16/99
16.11-6 Page 7 of 7	01/16/99

**CATAWBA NUCLEAR STATION
SELECTED LICENSEE COMMITMENTS MANUAL**

List of Effective Pages

Tab 16.11 (continued)

16.11-7 Page 1 of 9	01/16/99
16.11-7 Page 2 of 9	01/16/99
16.11-7 Page 3 of 9	06/10/99
16.11-7 Page 4 of 9	01/16/99
16.11-7 Page 5 of 9	01/16/99
16.11-7 Page 6 of 9	01/16/99
16.11-7 Page 7 of 9	06/10/99
16.11-7 Page 8 of 9	06/10/99
16.11-7 Page 9 of 9	09/20/99
16.11-8 Page 1 of 2	01/16/99
16.11-8 Page 2 of 2	01/16/99
16.11-9 Page 1 of 2	01/16/99
16.11-9 Page 2 of 2	01/16/99
16.11-10 Page 1 of 2	01/16/99
16.11-10 Page 2 of 2	01/16/99
16.11-11 Page 1 of 2	01/16/99
16.11-11 Page 2 of 2	01/16/99
16.11-12 Page 1 of 2	01/16/99
16.11-12 Page 2 of 2	01/16/99
16.11-13 Page 1 of 14	01/16/99
16.11-13 Page 2 of 14	01/16/99
16.11-13 Page 3 of 14	01/16/99
16.11-13 Page 4 of 14	01/16/99
16.11-13 Page 5 of 14	01/16/99
16.11-13 Page 6 of 14	01/16/99
16.11-13 Page 7 of 14	01/16/99
16.11-13 Page 8 of 14	01/16/99
16.11-13 Page 9 of 14	01/16/99
16.11-13 Page 10 of 14	01/16/99
16.11-13 Page 11 of 14	01/16/99
16.11-13 Page 12 of 14	01/16/99
16.11-13 Page 13 of 14	01/16/99
16.11-13 Page 14 of 14	01/16/99
16.11-14 Page 1 of 2	01/16/99
16.11-14 Page 2 of 2	01/16/99
16.11-15 Page 1 of 1	01/16/99
16.11-16 Page 1 of 4	01/16/99
16.11-16 Page 2 of 4	03/11/99
16.11-16 Page 3 of 4	01/16/99
16.11-16 Page 4 of 4	01/16/99
16.11-17 Page 1 of 2	01/16/99
16.11-17 Page 2 of 2	01/16/99
16.11-18 Page 1 of 2	01/16/99

**CATAWBA NUCLEAR STATION
SELECTED LICENSEE COMMITMENTS MANUAL**

List of Effective Pages

Tab 16.11 (continued)

16.11-18 Page 2 of 2	01/16/99
16.11-19 Page 1 of 2	01/16/99
16.11-19 Page 2 of 2	01/16/99
16.11-20 Page 1 of 3	01/16/99
16.11-20 Page 2 of 3	01/16/99
16.11-20 Page 3 of 3	01/16/99
16.11-21 Page 1 of 2	01/16/99
16.11-21 Page 2 of 2	01/16/99

Tab 16.12

16.12-1 Page 1 of 2	01/16/99
16.12-1 Page 2 of 2	01/16/99

Tab 16.13

16.13-1 Page 1 of 2	05/05/99
16.13-1 Page 2 of 2	12/90
16.13-2 Page 1 of 3	01/16/99
16.13-2 Page 2 of 3	01/16/99
16.13-2 Page 3 of 3	01/16/99
16.13-3 Page 1 of 2	01/16/99
16.13-3 Page 2 of 2	01/16/99

16.0 SELECTED LICENSEE COMMITMENTS

16.1 INTRODUCTION

COMMITMENT:

This chapter provides a single location in the UFSAR where certain selected licensee commitments (SLC) are presented. The content of this chapter is based on the results of application of a set of criteria to determine the content of technical specifications. For purposes of administrative ease, this chapter is maintained in a separate manual, The Catawba Nuclear Station Selected Licensee Commitment Manual. Those previous technical specification requirements which did not meet the criteria are relocated in this chapter. Catawba Technical Specification 5.4 (Procedures) requires written procedures to be established, implemented, and maintained on those selected licensee commitments.

The control of the Catawba Nuclear Station SLC program and manual shall be in accordance with Nuclear System Directive 221, "Facility Operating License and Technical Specifications Amendments/Selected Licensee Commitments/Technical Specifications Bases Changes." The manual is officially designated as Chapter 16 of the Catawba UFSAR. The original issue and subsequent revisions of the manual are approved by the station manager. Administrative requirements of the manual are the responsibility of the site Regulatory Compliance section.

Changes to these SLC may be made, pursuant to 10 CFR 50.59, only after the bases for the requirement have been clearly established and after a multi-disciplinary review by qualified reviewers, including onsite operation's personnel (52FR3788, February 6, 1987, Interim Policy Statement on Technical Specification Improvements for Nuclear Power Plants).

Additional operational related commitments, as selected by the station manager or designee may be located in this chapter. It is the intent of this chapter to provide information regarding systems that are a part of the licensing basis, as described in the UFSAR, but are not of such a level of importance that they need to be under the rigorous control provided by technical specifications.

This chapter includes testing requirements for certain systems, and remedial actions to be taken in the event the system is not fully capable of performing its design function. A bases for the commitment is also provided. Reference is also provided to specific sections of the UFSAR where the information relative to the commitment is further described.

16.5 REACTOR COOLANT SYSTEM

16.5-6 REACTOR COOLANT SYSTEM VENTS

COMMITMENT:

At least one Reactor Coolant System vent path consisting of at least two valves in series powered from emergency buses shall be OPERABLE and closed* at each of the following locations:

- a. Reactor Vessel Head
- b. Pressurizer steam space

APPLICABILITY:

MODES 1, 2, 3 and 4.

REMEDIAL ACTION:

- a. With one of the above Reactor Coolant System vent paths inoperable, STARTUP and/or POWER OPERATION may continue provided the inoperable vent path is maintained closed with power removed from the valve actuator of all the valves in the inoperable vent path; restore the inoperable vent path to OPERABLE status within 30 days, or, be in HOT STANDBY within 6 hours and in COLD SHUTDOWN within the following 30 hours.
- b. With both of the above Reactor Coolant System vent paths inoperable, maintain the inoperable vent paths closed with power removed from the valve actuators of all the valves in the inoperable vent paths, and restore at least one of the vent paths to OPERABLE status within 72 hours or be in HOT STANDBY within 6 hours and in COLD SHUTDOWN within the following 30 hours.

TESTING REQUIREMENTS:

Each Reactor Coolant System vent path shall be demonstrated OPERABLE at least once per 18 months by:

* For the plants using power operated relief valve (PORV) as a vent path, PORV block is not required to be closed if the PORV is operable.

TESTING REQUIREMENTS (con't)

- a. Cycling each valve in the vent path through at least one complete cycle of full travel from the control room during COLD SHUTDOWN or REFUELING.

REFERENCES:

1. Letter from NRC to Gary R. Peterson, Duke, Issuance of Improved Technical Specifications Amendments for Catawba, September 30, 1998.

BASES:

Reactor Coolant System Vents are provided to exhaust noncondensable gases and/or steam from the primary system that could inhibit natural circulation core cooling. The OPERABILITY of at least one Reactor Coolant System vent path from the reactor vessel head, and the pressurizer steam space ensures the capability exists to perform this function. There are no manual isolation valves in either Reactor Coolant System vent path.

The valve redundancy of the Reactor Coolant System vent paths serves to minimize the probability of inadvertent or irreversible actuation while ensuring that a single failure of a vent valve, power supply or control system does not prevent isolation of the vent path.

The function, capabilities, and testing requirements of the Reactor Coolant System vent systems are consistent with the requirements of Item II.B.1 of NUREG-0737, "Clarification of TMI Action Plan Requirements", November 1980.

16.7 INSTRUMENTATION

16.7-3 METEOROLOGICAL INSTRUMENTATION

COMMITMENT:

- a. The meteorological monitoring instrumentation channels shown in Table 16.7-3A shall be OPERABLE.

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.

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 are available for estimating potential radiation doses to the public as a result of routine or accidental release of radioactive materials to the 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.

An Instrument Calibration will consist of the following test:

- 1) A bench based test, certification, and/or calibration of the tower mounted sensors for:

BASES: (cont'd)

- 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) A CHANNEL CHECK, subsequent to any work performed. This will verify continuity of the signal cable between the sensor and signal processors.
 - 5) The Wind Speed Sensors and cup-sets or Wind Direction Sensors and Vanes do not require wind tunnel testing as an assembly.
 - 6) Replacement of cup-sets or vanes does not require an Instrument Calibration of the affected channel.

TABLE 16.7-3A

METEOROLOGICAL MONITORING INSTRUMENTATION

<u>INSTRUMENT</u>	<u>LOCATION</u>	<u>MINIMUM OPERABLE</u>
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. Δ - T Meteorological Tower	Nominal Elev. 827.25-660.25 ft.	1

Note: Elevations are feet above Mean Sea Level

TABLE 16.7-3B

METEOROLOGICAL MONITORING INSTRUMENTATION
SURVEILLANCE REQUIREMENTS

<u>INSTRUMENT</u>	<u>CHANNEL CHECK</u>	<u>CHANNEL CALIBRATION</u>
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. Δ - T Nominal Elev. 827.25-660.25 ft.	D	SA

Note: Elevations are feet above Mean Sea Level

16.7 INSTRUMENTATION

16.7-10 RADIATION MONITORING FOR PLANT OPERATIONS

COMMITMENT:

The radiation monitoring instrumentation channels for plant operations shown in Table 16.7-10A shall be OPERABLE with their Alarm/Trip Setpoints within the specified limits.

APPLICABILITY:

As shown in Table 16.7-10A

REMEDIAL ACTION:

- a. With a radiation monitoring channel Alarm/Trip Setpoint for plant operations exceeding the value shown in table 16.7-10A, adjust the Setpoint to within the limit within 4 hours or declare the channel inoperable.
- b. With one or more radiation monitoring channels for plant operations inoperable, take the REMEDIAL ACTION shown in Table 16.7-10A.

TESTING REQUIREMENTS:

Each radiation monitoring instrumentation channel for plant operations shall be demonstrated OPERABLE by the performance of the CHANNEL CHECK, CHANNEL CALIBRATION and CHANNEL OPERATIONAL TEST operations for the MODES and at the frequencies shown in Table 16.7-10B.

REFERENCES:

1. Letter from NRC to Gary R. Peterson, Duke, Issuance of Improved Technical Specifications Amendments for Catawba, September 30, 1998.

BASES:

The OPERABILITY of the radiation monitoring instrumentation for plant operations ensures that: (1) the associated action will be initiated when the radiation level monitored by each channel or combination thereof reaches its setpoint, (2) the specified coincidence logic is maintained, and (3) sufficient redundancy is maintained to permit a channel to be out-of-service for testing or maintenance. The radiation monitors for plant

BASES (con't)

operations senses radiation levels in selected plant systems and locations and determines whether or not predetermined limits are being exceeded. The radiation monitors send actuation signals to initiate alarms or automatic isolation action and actuation of emergency exhaust or ventilation systems. Some of the final actuations are dependent on plant condition in addition to the actuation signals from the radiation monitors.

Operation of the Component Cooling Water System (KC) Train A with the Train A Radiation Monitoring System (EMF) monitor inoperable and relying on the Train B EMF monitor for detection of radioactivity is not permissible. Likewise, operation of the KC Train B with the Train B EMF monitor inoperable and relying on the Train A EMF monitor for detection of radioactivity is not permissible. This is due to the interlock between the EMF monitor low-flow alarm and the operation of the KC pump motors on the same train. The EMF monitor in the operating KC pump train must be OPERABLE, or the compensatory measures taken as specified on Table 16.7-10A, Remedial Action H.

TABLE 16.7-10A
RADIATION MONITORING INSTRUMENTATION FOR PLANT OPERATIONS

<u>FUNCTIONAL UNIT</u>	<u>CHANNELS TO TRIP/ALARM</u>	<u>MINIMUM CHANNELS OPERABLE</u>	<u>APPLICABLE MODES</u>	<u>ALARM/TRIP SETPOINT</u>	<u>REMEDIAL ACTION</u>
1. Containment Atmosphere – High Gaseous Radioactivity (Low Range – EMF-39)	1	1	All	***	C
2. Fuel Storage Pool Areas					
a. High Gaseous Radioactivity (Low Range – EMF-42)	1	1	**	$\leq 1.7 \times 10^{-4} \mu\text{Ci/ml}$	F
b. Criticality-Radiation Level (Fuel Bridge – Low Range – 1EMF-15, 2EMF-4)	1	1	*	$\leq 15 \text{ mR/h}$	E
3. Control Room Air Intake-Radiation Level – High Gaseous Radioactivity (Low Range – EMF-43 A & B)	1/intake	2 (1/intake)	All	$\leq 1.7 \times 10^{-4} \mu\text{Ci/ml}$	D
4. Auxiliary Building Ventilation High Gaseous Radioactivity (Low Range – EMF-41)	1	1	1, 2, 3, 4	$\leq 1.7 \times 10^{-4} \mu\text{Ci/ml}$	G
5. Component Cooling Water System (EMF-46 A & B)	1****	1****	All	$\leq 1 \times 10^{-3} \mu\text{Ci/ml}$	H

TABLE 16.7-10A

TABLE NOTATIONS

- * With fuel in the fuel storage pool areas.
- ** With irradiated fuel in the fuel storage pool areas.
- *** When venting or purging from containment to the atmosphere, the trip setpoint shall not exceed the equivalent limits of SLC 16.11-18 in accordance with the methodology and parameters in the ODCM. When not venting or purging in Modes 5 or 6, the alarm setpoint concentration ($\mu\text{Ci/ml}$) shall be such that the actual submersion dose rate would not exceed 5mR/hr without alarm. When not venting or purging in Modes 1 through 4 the alarm setpoint shall be no more than 3 times the containment atmosphere activity as indicated by the radiation monitor.
- **** For EMF-46A and -46B: The EMF monitor associated with the operating Component Cooling Water System Train shall be OPERABLE. This requirement is based on the existence of an interlock which blocks the EMF loss of flow alarm from being received in the Control Room when the associated train pump motor(s) are not running.

REMEDIAL ACTION STATEMENTS

- ACTION C - With less than the Minimum Channels OPERABLE requirement, operation may continue provided the containment purge and exhaust valves are maintained closed.
- ACTION D - With the number of OPERABLE channels one less than the Minimum Channels OPERABLE requirement, within 1 hour initiate and maintain operation of one train of the Control Room Area Ventilation System (CRAVS) with flow through the HEPA filters and activated carbon adsorbers.
- ACTION E - With less than the Minimum Channels OPERABLE requirement, operation may continue for up to 30 days provided an appropriate portable continuous monitor with the same Alarm Setpoint is provided in the fuel storage pool area. Restore the inoperable monitors to OPERABLE status within 30 days or suspend all operations involving fuel movement in the fuel building.
- ACTION F - With the number of OPERABLE channels less than the Minimum Channels OPERABLE requirement, operation may continue provided one train of the Fuel Handling Ventilation Exhaust System (FHVES) is OPERABLE and in operation discharging through the HEPA filters and

TABLE 16.7-10A

REMEDIAL ACTION STATEMENTS (con't)

activated carbon adsorbers. Otherwise, suspend all operations involving fuel movement in the fuel building.

ACTION G - With the number of OPERABLE channels less than the Minimum Channels OPERABLE requirement, operation may continue provided one train of the Auxiliary Building Filtered Ventilation Exhaust System (ABFVES) is OPERABLE and in operation discharging through the HEPA filter and activated carbon adsorbers.

ACTION H - With the number of OPERABLE channels less than the Minimum Channels OPERABLE requirement, operation may continue for up to 30 days provided that, at least once per 12 hours, grab samples are collected and analyzed for principal gamma emitters (listed in Table 16.11-1, Table Notation (3)) at a lower limit of detection of no more than 5×10^{-7} $\mu\text{Ci/ml}$.

TABLE 16.7-10B
RADIATION MONITORING INSTRUMENTATION FOR PLANT
OPERATIONS TESTING REQUIREMENTS

<u>FUNCTIONAL UNIT</u>	<u>CHANNEL CHECK</u>	<u>CHANNEL CALIBRATION</u>	<u>CHANNEL OPERATIONAL TEST</u>	<u>MODES FOR WHICH SURVEILLANCE IS REQUIRED</u>
1. Containment Atmosphere – High Gaseous Radioactivity (Low Range – EMF-39)	12 hours	18 months	92 days	All
2. Fuel Storage Pool Areas				
a. High Gaseous Radioactivity (Low Range – EMF-42)	12 hours	18 months	92 days	**
b. Criticality-Radiation Level (Fuel Bridge – Low Range – 1EMF-15, 2EMF-4)	12 hours	18 months	92 days	*
3. Control Room Air Intake Radiation Level – High Gaseous Radioactivity – (Low Range – EMF-43 A & B)	12 hours	18 months	92 days	All
4. Auxiliary Building Ventilation High Gaseous Radioactivity (Low Range – EMF-41)	12 hours	18 months	92 days	1, 2, 3, 4
5. Component Cooling Water System (EMF-46 A & B)	12 hours	18 months	92 days	All

TABLE NOTATIONS

* With fuel in the fuel storage pool area.

** With Irradiated fuel in the fuel storage pool areas.

16.8 ELECTRICAL POWER SYSTEMS

16.8-1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

COMMITMENT:

Primary and backup containment penetration conduction overcurrent protective devices shown in Table 16.8-1A and 16.8-1B shall be operable.

APPLICABILITY:

MODES 1, 2, 3, and 4.

REMEDIAL ACTION:

With one or more of the primary or backup containment penetration conductor overcurrent protective device(s) shown in Table 16.8-1A and 16.8-1B inoperable:

- a. Restore the protective device(s) to OPERABLE status or de-energize the circuit(s) by tripping the associated redundant circuit breaker or removing the redundant fuse(s), or by racking out the inoperable circuit breaker or removing the inoperable protective device(s) within 72 hours, declare the affected system or component inoperable, and verify the associated redundant protective device(s) to be tripped or removed, or that the inoperable device is removed or racked out at least once per 7 days thereafter; the provisions of SLC 16.2-3 are not applicable to overcurrent device(s) in circuit(s) which have their redundant device(s) tripped or removed, or their inoperable protective device(s) racked out or removed from the circuit, or

- b. Be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.

TESTING REQUIREMENTS:

The above noted primary and backup containment penetration conductor overcurrent protective devices shall be demonstrated OPERABLE:

- a. At least once per 18 months:
 - 1) By verifying that the medium voltage (4-15 kV) circuit breakers are OPERABLE by selecting, on a rotating basis, at least 10% of the circuit breakers of each voltage level, and performing the following:

TESTING REQUIREMENTS (con't)

- a) A CHANNEL CALIBRATION of the associated protective relays,
 - b) An integrated protective system functional test which includes simulated automatic actuation of the system and verifying that each relay and associated circuit breakers function as designed, and
 - c) For each circuit breaker found inoperable during these functional tests, an additional representative sample of at least 10% of all the circuit breakers of the inoperable type shall also be functionally tested until no more failures are found or all circuit breakers of that type have been functionally tested.
- 2) By selecting and functionally testing a representative sample of at least 10% of each type of lower voltage circuit breakers. Circuit breakers selected for functional testing shall be selected on a rotating basis. Testing of these circuit breakers shall consist of injecting a current in excess of the breakers nominal Setpoint and measuring the response time. The measured response time will be compared to the manufacturer's data to ensure that it is less than or equal to a value specified by the manufacturer. Circuit breakers found inoperable during functional testing shall be restored to OPERABLE status prior to resuming operation. For each circuit breaker found inoperable during these functional tests, an additional representative sample of a least 10% of all the circuit breakers of the inoperable type shall also be functionally tested until no more failures are found or all circuit breakers of that type have been functionally tested; and
- 3) By selecting and functionally testing a representative sample of each type of fuse on a rotating basis. Each representative sample of fuses shall include at least 10% of all fuses of that type. The functional test shall consist of a nondestructive resistance measurement test which demonstrates that the fuse meets its manufacturer's design criteria. Fuses found inoperable during these functional tests shall be replaced with OPERABLE fuses prior to resuming operation. For each fuse found inoperable during these functional tests, an additional representative sample of at least 10% of all fuses of that type shall be functionally tested until no more failures are found or all fuses of that type have been functionally tested.
- b. At least once per 60 months by subjecting each circuit breaker to an inspection and preventive maintenance in accordance with procedures prepared in conjunction with its manufacturer's recommendations.

REFERENCES:

1. Letter from NRC to Gary R. Peterson, Duke, Issuance of Improved Technical Specifications Amendments for Catawba, September 30, 1998.

BASES:

Containment electrical penetrations and penetration conductors are protected by either deenergizing circuits not required during reactor operation or by demonstrating the OPERABILITY of primary and backup overcurrent protection circuit breakers during periodic testing.

The Testing Requirements applicable to lower voltage circuit breakers and fuses provide assurance of breaker and fuse reliability by testing at least one representative sample of each manufacturer's brand of circuit breaker and/or fuse. Each manufacturer's molded case circuit breakers and/or fuses are grouped into representative samples which are then tested on a rotating basis to ensure that all breakers and/or fuses are tested. If a wide variety exists within any manufacturer's brand of circuit breakers and/or fuses, it is necessary to divide that manufacturer's breakers and/or fuses into groups and treat each group as a separate type of breaker or fuse for testing purposes.

The lists of components for which this COMMITMENT is applicable exclude those circuits for which credible fault currents would not exceed the electrical penetration design rating.

TABLE 16.8-1A
UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
1. 6900 VAC Swgr	
Primary Bkr RCP1A Backup Bkr 1TA-3	Reactor Coolant Pump 1A
Primary Bkr RCP1B Backup Bkr 1TB-3	Reactor Coolant Pump 1B
Primary BKR RCP1C Backup Bkr 1TC-3	Reactor Coolant Pump 1C
Primary BKR RCP1D Backup Bkr 1TD-3	Reactor Coolant Pump 1D
2. 600 VAC MCC	
1EMXC-F01B Primary Bkr Backup Fuse	Accumulator 1C Discharge Isol Vlv 1NI76A
1EMXC-F01C Primary Bkr Backup Fuse	Check Valve Test Header Cont Isol Vlv 1NI95A
1EMXC-F02A Primary Bkr Backup Fuse	Train A Alternate Power To ND LTDN Vlv 1ND1B
1EMXC-F02B Primary Bkr Backup Fuse	Hot Leg Inj. Check Vlv Test Isol Vlv 1NI153A
1EMXC-F02C Primary Bkr Backup Fuse	Cont Isol at 134 Deg Annulus Area Vlv 1VI312A
1EMXC-F03A Primary Bkr Backup Fuse	NC Pump 1C Thermal Barrier Outlet Isol Vlv 1KC345A
1EMXC-F03B Primary Bkr Backup Fuse	N2 to Prt Cont Isol Inside Vlv 1NC54A
1EMXC-F03C Primary Bkr Backup Fuse	Pressurizer Power-Operated Relief Isol Vlv 1NC33A

TABLE 16.8-1A
UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
2. 600 VAC MCC (Continued)	
1EMXC-F05A Primary Bkr Backup Fuse	NCDT Vent Inside Cont Isol Vlv 1WL450A
1EMXC-F05B Primary Bkr Backup Fuse	Cont Sump Pumps Discharge Inside Cont Isol Vlv 1WL825A
1EMXC-F05C Primary Bkr Backup Fuse	Vent Unit Cond Drn Tank Outside Cont Isol Vlv 1WL867A
1EMXC-F06A Primary Bkr Backup Fuse	NCDT Pumps Disch Inside Cont Isol Vlv 1WL805A
1EMXC-F07B Primary Bkr Backup Fuse	Cont H2 Purge Outlet Cont Isol Vlv 1VY17A
1EMXD-F01A Primary Bkr Backup Fuse	ND Pump 1A Suction From NC Loop B Vlv 1ND1B
1EMXD-F01B Primary Bkr Backup Fuse	Accumulator 1B Discharge Isol Vlv 1NI65B
1EMXD-F01C Primary Bkr Backup Fuse	NI Pump A to Hot Leg Check Vlv Test Isol Vlv 1NI122B
1EMXD-F02A Primary Bkr Backup Fuse	ND Pump 1B Suction from NC Loop C Vlv 1ND36B
1EMXD-F02B Primary Bkr Backup Fuse	ND to Hot Legs Chk 1NI125, 1NI129 Test Isol Vlv 1NI154B

TABLE 16.8-1A
UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
2. 600 VAC MCC (Continued)	
1EMXD-F02C Primary Bkr Backup Fuse	Pressurizer Power-Operated Relief Isol Vlv 1NC31B
1EMXD-F05A Primary Bkr Backup Fuse	Pressurizer Power-Operated Relief Isol Vlv 1NC35B
1EMXD-F05B Primary Bkr Backup Fuse	Rx Bldg Drain Hdr Inside Cont Isol Vlv 1KC429B
1EMXD-F05C Primary Bkr Backup Fuse	NCDT Hx Cing Water Return Inside Isol Vlv 1KC332B
1EMXD-F06A Primary Bkr Backup Fuse	NC Pump 1B Thermal Barrier Outlet Isol Vlv 1KC364B
1EMXD-F06B Primary Bkr Backup Fuse	NC Pumps Rtn Hdr Inside Cont Isol Vlv 1KC424B
1EMXK-F01C Primary Bkr Backup Fuse	Backup N2 to PORV 1NC34A From Accum Tnk 1A Vlv 1NI438A
1EMXK-F02A Primary Bkr Backup Fuse	NC Pump 1A Thermal Barrier Outlet Isol Vlv 1KC394A
1EMXK-F02B Primary Bkr Backup Fuse	Lower Cont Vent Units Return Cont Isol Vlv 1RN484A

TABLE 16.8-1A
UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
2. 600 VAC MCC (Continued)	
1EMXK-F02C Primary Bkr Backup Fuse	NV Supply to Pressurizer Vlv 1NV037A
1EMXK-F03A Primary Bkr Backup Fuse	S/G C Blowdown Line Sample Inside Cont Isol Vlv 1NM210A
1EMXK-F04A Primary Bkr Backup Fuse	S/G A Upper Shell Sample Inside Cont Isol Vlv 1NM187A
1EMXK-F04B Primary Bkr Backup Fuse	S/G A Blowdown Line Sample Inside Cont Isol Vlv 1NM190A
1EMXK-F04C Primary Bkr Backup Fuse	S/G C Upper Shell Sample Inside Cont Isol Vlv 1NM207A
1EMXK-F06A Primary Bkr Backup Fuse	Hydrogen Skimmer Fan 1A Inlet Vlv 1VX1A
1EMXK-F07C Primary Bkr Backup Fuse	Electric Hydrogen Recombiner Power Supply Panel 1A
1EMXK-F09A Primary Bkr Backup Fuse	Accumulator 1A Discharge Isol Vlv 1NI54A
1EMXK-F09C Primary Bkr Backup Fuse	NC Pump Oil Fill Header Cont Isol Vlv 1NC196A

TABLE 16.8-1A
UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
2. 600 VAC MCC (Continued)	
1EMXK-F10A Primary Bkr Backup Fuse	Containment Air Return Damper 1ARF-D-2
1EMXK-F10B Primary Bkr Backup Fuse	VQ Fans Suction From Containment Isol Vlv 1VQ2A
1EMXK-F10C Primary Bkr Backup Fuse	Cont Air Addition Containment Isol Vlv 1VQ16A
1EMXK-F11A Primary Bkr Backup Fuse	Containment Air Return Fan Motor 1A
1EMXK-F11B Primary Bkr Backup Fuse	Hydrogen Skimmer Fan Motor 1A
1EMXL-F01B Primary Bkr Backup Fuse	Trn B Alternate Power to ND Letdn Vlv 1ND37A
1EMXL-F01C Primary Bkr Backup Fuse	NI Accum D Sample Line Inside Cont Isol Vlv 1NM81B
1EMXL-F02A Primary Bkr Backup Fuse	NC Pump 1D Thermal Barrier Outlet Isol Vlv 1KC413B
1EMXL-F02B Primary Bkr Backup Fuse	Air Handling units Glycol Return Cont Isol Vlv 1NF233B
1EMXL-F02C Primary Bkr Backup Fuse	NI Accum C Sample Line Inside Cont Isol Vlv 1NM78B
1EMXL-F03A Primary Bkr Backup Fuse	S/G D Blowdown Sample Line Inside Cont Isol Vlv 1NM220B

TABLE 16.8-1A
UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
2. 600 VAC MCC (Continued)	
1EMXL-F03B Primary Bkr Backup Fuse	NI Accum A Sample Line Inside Cont Isol Vlv 1NM72B
1EMXL-F03C Primary Bkr Backup Fuse	NI Accum B Sample Line Inside Cont Isol Vlv 1NM75B
1EMXL-F04A Primary Bkr Backup Fuse	S/G B Upper Shell Sample Inside Cont Isol Vlv 1NM197B
1EMXL-F04B Primary Bkr Backup Fuse	S/G B Blowdown Sample Line Inside Cont Isol Vlv 1NM200B
1EMXL-F04C Primary Bkr Backup Fuse	S/G D Upper Shell Sample Inside Cont Isol Vlv 1NM217B
1EMXL-F06A Primary Bkr Backup Fuse	Hydrogen Skimmer Fan 1B Inlet Vlv 1VX2B
1EMXL-F06B Primary Bkr Backup Fuse	Backup N2 to PORV 1NC32B from Accum Tnk 1B Vlv 1NI439B
1EMXL-F07C Primary Bkr Backup Fuse	Electric Hydrogen Recombiner Power Supply Panel 1B
1EMXL-F09A Primary Bkr Backup Fuse	Accumulator 1D Discharge Isol Vlv 1NI88B
1EMXL-F10A Primary Bkr Backup Fuse	Containment Air Return Damper 1ARF-D-4

TABLE 16.8-1A
UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
2. 600 VAC MCC (Continued)	
1EMXL-F10B Primary Bkr Backup Fuse	Reactor Vessel Head Vent Vlv 1NC251B
1EMXL-F10C Primary Bkr Backup Fuse	Reactor Vessel Head Vent Vlv 1NC252B
1EMXL-F11A Primary Bkr Backup Fuse	Containment Air Return Fan Motor 1B
1EMXL-F11B Primary Bkr Backup Fuse	Hydrogen Skimmer Fan Motor 1B
1EMXS-F01B Primary Bkr Backup Fuse	NC Pumps Seal Rtn Inside Cont Isol Vlv 1NV89A
1EMXS-F02A Primary Bkr Backup Fuse	ND Pump 1B Suction from NC Loop C Vlv 1ND37A
1EMXS-F02B Primary Bkr Backup Fuse	Reactor Vessel Head Vent Vlv 1NC250A
1EMXS-F03D Primary Bkr Backup Fuse	ND Pump 1A Suction from NC Loop B Vlv 1ND2A
1EMXS-F03E Primary Bkr Backup Fuse	Reactor Vessel Head Vent Vlv 1NC253A
1EMXS-F04B Primary Bkr Backup Fuse	S/G 1D Blowdown Inside Cont Isol Vlv 1BB8A
1EMXS-F04C Primary Bkr Backup Fuse	S/G 1B Blowdown Inside Cont Isol Vlv 1BB19A

TABLE 16.8-1A
UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
2. 600 VAC MCC (Continued)	
1EMXS-F05A Primary Bkr Backup Fuse	S/G 1A Blowdown Inside Cont Isol Vlv 1BB56A
1EMXS-F05B Primary Bkr Backup Fuse	S/G 1C Blowdown Inside Cont Isol Vlv 1BB60A
1EMXS-F05C Primary Bkr Backup Fuse	Pzr Liquid Sample Line Inside Cont Isol Vlv 1NM3A
1EMXS-F06A Primary Bkr Backup Fuse	Pzr Steam Sample Line Inside Cont Isol Vlv 1NM6A
1EMXS-F06B Primary Bkr Backup Fuse	NC Hot Leg A Sample Line Inside Cont Isol Vlv 1NM22A
1EMXS-F06C Primary Bkr Backup Fuse	NC Hot Leg C Sample Line Inside Cont Isol Vlv 1NM25A
1MXM-F01A Primary Bkr Backup Fuse	Reactor Coolant Pump Motor Drain Tank Pump Motor
1MXM-F02A Primary Bkr Backup Fuse	NC Pump 1B Oil Lift Pump Motor 1
1MXM-F02B Primary Bkr Backup Fuse	NC Pump 1C Oil Lift Pump Motor 1
1MXM-F03A Primary Bkr Backup Fuse	Ice Condenser Power Transformer ICT1A
1MXM-F03B Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1B6 Fan Motor A & B

TABLE 16.8-1A
UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
2. 600 VAC MCC (Continued)	
1MXM-F03C Primary Bkr Backup Fuse	Ice Condenser Equipment Access Door Hoist Motor 1A
1MXM-F04D Primary Bkr Backup Fuse	Lighting Transformer 1LR10
1MXM-F04E Primary Bkr Backup Fuse	Lighting Transformer 1LR13
1MXM-F05A Primary Bkr Backup Fuse	175 Ton Polar Crane and 25 Ton Aux Crane No. R013 and R015
1MXM-F05C Primary Bkr Backup Fuse	Upper Containment Welding Feeder
1MXM-F06A Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1A7 Fan Motor A & B
1MXM-F06B Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1B8 Fan Motor A & B
1MXM-F06C Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1A9 Fan Motor A & B
1MXM-F06D Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1B10 Fan Motor A & B
1MXM-F07B Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1A13 Fan Motor A & B
1MXM-F07C Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1B14 Fan Motor A & B

TABLE 16.8-1A

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
2. 600 VAC MCC (Continued)	
1MXM-F08D Primary Bkr Backup Fuse	Ice Condenser Refrigeration Floor Cool Defrost Heater 1A
1MXM-F09A Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1A1 Fan Motor A & B
1MXM-F09B Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1B2 Fan Motor A & B
1MXM-F09C Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1A3 Fan Motor A & B
1MXM-F09D Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1B4 Fan Motor A & B
1MXM-F10A Primary Bkr Backup Fuse	Containment Floor and Equipment Sump Pump Motor 1A1
1MXM-F10B Primary Bkr Backup Fuse	Containment Floor and Equipment Sump Pump Motor 1B1
1MXN-F01F Primary Bkr Backup Fuse	Stud Tensioner Hoist 1B
1MXN-F02A Primary Bkr Backup Fuse	NC Pump 1B Oil Lift Pump Motor 2
1MXN-F02B Primary Bkr Backup Fuse	NC Pump 1C Oil Lift Pump Motor 2
1MXN-F02E Primary Bkr Backup Fuse	Stud Tensioner Hoist 1C

TABLE 16.8-1A
UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
2. 600 VAC MCC (Continued)	
1MXN-F03A Primary Bkr Backup Fuse	Ice Condenser Power Transformer ICT1B
1MXN-F03B Primary Bkr Backup Fuse	Ice Condenser Bridge Crane 1 Crane No. R011
1MXN-F03E Primary Bkr Backup Fuse	Stud Tensioner Hoist 1A
1MXN-F04D Primary Bkr Backup Fuse	Lighting Transformer 1LR5
1MXN-F04E Primary Bkr Backup Fuse	Lighting Transformer 1LR6
1MXN-F05A Primary Bkr Backup Fuse	Ice Condenser Refrigeration Floor Cool Defrost Heater 1B
1MXN-F05B Primary Bkr Backup Fuse	Ice Condenser Refrigeration Floor Cool Pump Motor 1B
1MXN-F05C Primary Bkr Backup Fuse	Ice Condenser Equipment Access Door Hoist Motor 1B
1MXN-F06A Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1B1 Fan Motor A & B
1MXN-F06B Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1A2 Fan Motor A & B
1MXN-F06C Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1B3 Fan Motor A & B

TABLE 16.8-1A
UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
2. 600 VAC MCC (Continued)	
1MXN-F06D Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1A4 Fan Motor A & B
1MXN-F07B Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1B5 Fan Motor A & B
1MXN-F07C Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1A6 Fan Motor A & B
1MXN-F08A Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1B7 Fan Motor A & B
1MXN-F08B Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1A8 Fan Motor A & B
1MXN-F08C Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1B9 Fan Motor A & B
1MXN-F08D Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1A10 Fan Motor A & B
1MXN-F09A Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1B11 Fan Motor A & B
1MXN-F09B Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1A12 Fan Motor A & B
1MXN-F09C Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1B13 Fan Motor A & B
1MXN-F09D Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1A14 Fan Motor A & B

TABLE 16.8-1A
UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
2. 600 VAC MCC (Continued)	
1MXN-F10A Primary Bkr Backup Fuse	Containment Floor and Equipment Sump Pump Motor 1A2
1MXN-F10B Primary Bkr Backup Fuse	Containment Floor and Equipment Sump Pump Motor 1B2
1MXN-F10C Primary Bkr Backup Fuse	Incore Instrumentation Sump Pump Motor 1
1MXN-F10D Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1B15 Fan Motor A & B
1MXO-F01A Primary Bkr Backup Fuse	Upper Containment Air Return Fan Motor 1C
1MXO-F01B Primary Bkr Backup Fuse	Incore Instrument Tunnel Booster Fan Motor 1A
1MXO-F02B Primary Bkr Backup Fuse	Control Rod Drive Vent Fan Motor 1A
1MXO-F03A Primary Bkr Backup Fuse	Lower Containment Ventilation Unit 1C Fan Motor
1MXO-F04C Primary Bkr Backup Fuse	Upper Containment Ventilation Unit 1C Fan Motor
1MXO-F05C Primary Bkr Backup Fuse	Containment Pipe Tunnel Booster Fan Motor 1A
1MXP-F01A Primary Bkr Backup Fuse	Upper Containment Return Air Fan 1B

TABLE 16.8-1A
UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
2. 600 VAC MCC (Continued)	
1MXP-F01B Primary Bkr Backup Fuse	Incore Instrument Tunnel Booster Fan Motor 1B
1MXP-F02B Primary Bkr Backup Fuse	Control Rod Drive Vent Fan Motor 1B
1MXP-F03A Primary Bkr Backup Fuse	Lower Containment Ventilation Unit 1B Fan Motor
1MXP-F04D Primary Bkr Backup Fuse	Upper Containment Ventilation Unit 1B Fan Motor
1MXP-F05C Primary Bkr Backup Fuse	Containment Pipe Tunnel Booster Fan Motor 1B
1MXQ-F01A Primary Bkr Backup Fuse	Upper Containment Return Air Fan Motor 1A
1MXQ-F01B Primary Bkr 1A Fan Motor	Incore Instrument Room Ventilation Unit Unit 1A Fan Motor
1MXQ-F02B Primary Bkr Backup Fuse	Control Rod Drive Vent Fan Motor 1C
1MXQ-F03A Primary Bkr Backup Fuse	Lower Containment Ventilation Unit 1A Fan Motor
1MXQ-F04C Primary Bkr Backup Fuse	Upper Containment Ventilation Unit 1A Fan Motor
1MXR-F01A Primary Bkr Backup Fuse	Upper Containment Return Air Fan Motor 1D

TABLE 16.8-1A
UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
2. 600 VAC MCC (Continued)	
1MXR-F01B Primary Bkr Backup Fuse	Incore Instrument Room Ventila tion Unit 1B Fan Motor
1MXR-F02B Primary Bkr Backup Fuse	Control Rod Drive Vent Fan Motor 1D
1MXR-F03A Primary Bkr Backup Fuse	Lower Containment Ventilation Unit 1D Fan Motor
1MXR-F04C Primary Bkr Backup Fuse	Upper Containment Ventilation Unit 1D Fan Motor
1MXY-F02A Primary Bkr Backup Fuse	NC Pump 1A Oil Lift Pump Motor 1
1MXY-F02B Primary Bkr Backup Fuse	NC Pump 1D Oil Lift Pump Motor 1
1MXY-F02C Primary Bkr Backup Fuse 1RCPL0185	Reactor Building Lower ContainmenT Welding Machine Receptacle
1MXY-F02D Primary Bkr Backup Fuse	Upper Containment Reactor Building Welding Receptacle 1RCPL0193
1MXY-F03A Primary Bkr Backup Fuse	Reactor Coolant Drain Tank Pump Motor 1A
1MXY-F03D Primary Bkr Backup Fuse	Ice Condenser Refrigeration Floor Cool Pump Motor 1A
1MXY-F05A Primary Bkr Backup Fuse	Lighting Transformer 1LR8
1MXY-F05B Primary Bkr Backup Fuse	Lighting Transformer 1LR11

TABLE 16.8-1A
UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
2. 600 VAC MCC (Continued)	
1MXY-F05C Primary Bkr Backup Fuse	Lighting Transformer 1LR14
1MXY-F06A Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1A5 Fan Motor A & B
1MXY-F06B Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1A11 Fan Motor A & B
1MXY-F06C Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1B12 Fan Motor A & B
1MXY-F06D Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 1A15 Fan Motor A & B
1MXY-F08A Primary Bkr Backup Fuse	Incore Drive Assembly Motor 1A
1MXY-F08B Primary Bkr Backup Fuse	Incore Drive Assembly Motor 1C
1MXY-F08C Primary Bkr Backup Fuse	Incore Drive Assembly Motor 1E
1MXY-F08D Primary Bkr Backup Fuse	Lower Containment Auxiliary Charcoal Filter Unit Fan Motor 1A
1MXZ-F02A Primary Bkr Backup Fuse	NC Pump 1A Oil Lift Pump Motor 2
1MXZ-F02B Primary Bkr Backup Fuse	NC Pump 1D Oil Lift Pump Motor 2

TABLE 16.8-1A
UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
2. 600 VAC MCC (Continued)	
1MXZ-F03A Primary Bkr Backup Fuse	Reactor Coolant Drain Tank Pump Motor 1B
1MXZ-F04B Primary Bkr Backup Fuse	Lighting Transformer 1LR1
1MXZ-F04C Primary Bkr Backup Fuse	Lighting Transformer 1LR2
1MXZ-F04D Primary Bkr Backup Fuse	Lighting Transformer 1LR3
1MXZ-F05A Primary Bkr Backup Fuse	Reactor Coolant Pump Jib Hoist No. R019 TH R022
1MXZ-F05C Primary Bkr Backup Fuse	Lower Containment Auxiliary Charcoal Filter Unit Fan Motor 1B
1MXZ-F06A Primary Bkr Backup Fuse	Incore Drive Assembly Motor 1B
1MXZ-F06B Primary Bkr Backup Fuse	Incore Drive Assembly Motor 1D
1MXZ-F06C Primary Bkr Backup Fuse	Incore Drive Assembly Motor 1F
1MXZ-F06D Primary Bkr Backup Fuse	Lower Containment Reactor Building Welding Receptacle 1RCPL0194
1MXZ-F07B Primary Bkr Backup Fuse	Lighting Transformer 1LR4
1MXZ-F07C Primary Bkr Backup Fuse	5 Ton Jib Crane in Containment Crane No. R005

TABLE 16.8-1A

UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
2. 600 VAC MCC (Continued)	
1MXZ-F07D Primary Bkr Backup Fuse	Reactor Cavity Manipulator Crane No. R007 & R027
1MXZ-F08A Primary Bkr Backup Fuse	Steam Generator Drain Pump Motor 1
1MXZ-F08C Primary Bkr Backup Fuse	15 Ton Equipment Access Hatch Hoist Crane No. R009
1MXZ-F08D Primary Bkr Backup Fuse	Control Rod Drive 2 Ton Jib Hoist Crane No. R017
1MXZ-F08E Primary Bkr Backup Fuse	Reactor Side Fuel Handling Control Console
SMXG-F01C Primary Bkr Backup Fuse	Standby Makeup Pump Drain Isol Vlv 1NV876
SMXG-F05C Primary Bkr Backup Fuse	Pressurizer Heaters 28, 55 & 56
SMXG-F06A Primary Bkr Backup Fuse	Standby Makeup Pump to Seal Water Line Isol Vlv 1NV877
3. 600 VAC Pressurizer Heater Power Panels	
PHP1A-F01A Primary Bkr Backup Fuse	Pressurizer Heaters 1, 2, & 22
PHP1A-F01B Primary Bkr Backup Fuse	Pressurizer Heaters 5, 6, & 27

TABLE 16.8-1A
UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
3. 600 VAC Pressurizer Heater Power Panels (Continued)	
PHP1A-F01C Primary Bkr Backup Fuse	Pressurizer Heaters 9, 10 & 32
PHP1A-F02C Primary Bkr Backup Fuse	Pressurizer Heaters 11, 12 & 35
PHP1A-F02D Primary Bkr Backup Fuse	Pressurizer Heaters 13, 14 & 37
PHP1A-F02E Primary Bkr Backup Fuse	Pressurizer Heaters 17, 18 & 42
PHP1B-F01A Primary Bkr Backup Fuse	Pressurizer Heaters 21, 47 & 48
PHP1B-F01B Primary Bkr Backup Fuse	Pressurizer Heaters 26, 53 & 54
PHP1B-F01C Primary Bkr Backup Fuse	Pressurizer Heaters 31, 59 & 60
PHP1B-F02C Primary Bkr Backup Fuse	Pressurizer Heaters 36, 65 & 66
PHP1B-F02D Primary Bkr Backup Fuse	Pressurizer Heaters 41, 71 & 72
PHP1B-F02E Primary Bkr Backup Fuse	Pressurizer Heaters 46, 77 & 78
PHP1C-F01A Primary Bkr Backup Fuse	Pressurizer Heaters 7, 8 & 30

TABLE 16.8-1A
UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
3. 600 VAC Pressurizer Heater Power Panels (Continued)	
PHP1C-F01B Primary Bkr Backup Fuse	Pressurizer Heaters 19, 20 & 45
PHP1C-F01C Primary Bkr Backup Fuse	Pressurizer Heaters 24, 51 & 52
PHP1C-F01D Primary Bkr Backup Fuse	Pressurizer Heaters 29, 57 & 58
PHP1C-F02C Primary Bkr Backup Fuse	Pressurizer Heaters 34, 63 & 64
PHP1C-F02D Primary Bkr Backup Fuse	Pressurizer Heaters 39, 69 & 70
PHP1C-F02E Primary Bkr Backup Fuse	Pressurizer Heaters 44, 75 & 76
PHP1D-F01A Primary Bkr Backup Fuse	Pressurizer Heaters 3, 4 & 25
PHP1D-F01B Primary Bkr Backup Fuse	Pressurizer Heaters 15, 16 & 40
PHP1D-F01C Primary Bkr Backup Fuse	Pressurizer Heaters 23, 49 & 50
PHP1D-F02C Primary Bkr Backup Fuse	Pressurizer Heaters 33, 61 & 62
PHP1D-F02D Primary Bkr Backup Fuse	Pressurizer Heaters 38, 67 & 68

TABLE 16.8-1A
UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
3. 600 VAC Pressurizer Heater Power Panels (Continued)	
PHP1D-F02E Primary Bkr Backup Fuse	Pressurizer Heaters 43, 73 & 74
4. 250 VDC Reactor Building Deadlight Panelboard	
1DLD-2 Primary Bkr Backup Fuse	Lighting Panelboard No. 1LR1, 1LR2, 1LR3, 1LR4
1DLD-3 Primary Bkr Backup Fuse	Lighting Panelboard No. 1LR13, 1LR14
1DLD-4 Primary Bkr Backup Fuse	Lighting Panelboard No. 1LR5, 1LR6
1DLD-5 Primary Bkr Backup Fuse	Lighting Panelboard No. 1LR10, 1LR11
1DLD-10 Primary Bkr Backup Fuse	Lighting Panelboard No. 1LR8
5. 120 VAC Panelboards	
1ELB1-5 Primary Bkr Backup Fuse	Emergency A.C. Lighting
1ELB1-7 Primary Bkr Backup Fuse	Emergency A.C. Lighting
1ELB1-13 Primary Bkr Backup Fuse	Emergency A.C. Lighting
1ELB1-15 Primary Bkr Backup Fuse	Emergency A.C. Lighting

TABLE 16.8-1A
UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
5. 120 VAC Panelboards (Continued)	
1ELB1-17 Primary Bkr Backup Fuse	Emergency A.C. Lighting
1KPM-1 Primary Bkr Backup Fuse	NC Pump Motor 1A Space Heater
1KPM-2 Primary Bkr Backup Fuse	NC Pump Motor 1C Space Heater
1KPM-7-1 Primary Bkr Backup Fuse	Lower Containment Vent Unit 1A Fan Motor Space Heater
1KPM-8-1 Primary Bkr Backup Fuse	Lower Containment Vent Unit 1C Fan Motor Space Heater
1KPM-24 Primary Bkr Backup Fuse	Control Rod Drive Vent Fan Motor 1A, 1B, 1C, 1D Space Heaters
1KPM-24-10 Primary Fuse Backup Fuse	Control Rod Drive Vent Fan Motor 1A Space Heaters
1KPM-24-11 Primary Fuse Backup Fuse	Control Rod Drive Vent Fan Motor 1B Space Heaters
1KPM-24-12 Primary Fuse Backup Fuse	Control Rod Drive Vent Fan Motor 1C Space Heaters
1KPM-24-13 Primary Fuse Backup Fuse	Control Rod Drive Vent Fan Motor 1D Space Heaters
1KPM-33 Primary Bkr Backup Fuse	NI Temperature Transmitters 1NITT5800, 1NITT5810, 1NITT5820, 1NITT5830
1KPM-33-04 Primary Fuse	NI Temperature Transmitter 1NITT5800

TABLE 16.8-1A
UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
5. 120 VAC Panelboards (Continued)	
1KPM-33-05 Primary Fuse	NI Temperature Transmitter 1NITT5810
1KPM-33-06 Primary Fuse	NI Temperature Transmitter 1NITT5820
1KPM-33-07 Primary Fuse	NI Temperature Transmitter 1NITT5830
1KPN-1 Primary Bkr Backup Fuse	NC Pump Motor 1B Space Heater
1KPN-2 Primary Bkr Backup Fuse	NC Pump Motor 1D Space Heater
1KPN-7-1 Primary Bkr Backup Fuse	Lower Containment Vent Unit 1B Fan Motor Space Heater
1KPN-08 Primary Bkr Backup Fuse	Lower Containment Vent Unit 1D Fan Motor Space Heater, NC Pump Seal Stand Pipe Vent and Drain Valves 1NV105, 1NV106, 1NV110, 1NV111, 1NV115, 1NV116, 1NV120, 1NV121
1KPN-08-01 Primary Fuse Backup Fuse	Lower Containment Vent Unit 1D Fan Motor Space Heater
1KPN-08-02 Primary Fuse Backup Fuse	NC Pump 1A Standpipe Drain and Overflow Valves 1NV105 and 1NV106
1KPN-08-03 Primary Fuse Backup Fuse	NC Pump 1B Standpipe Drain and Overflow Valves 1NV110 and 1NV111
1KPN-08-04 Primary Fuse Backup Fuse	NC Pump 1C Standpipe Drain and Overflow Valves 1NV115 and 1NV116

TABLE 16.8-1A
UNIT 1 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
5. 120 VAC Panelboards (Continued)	
1KPN-08-05 Primary Fuse Backup Fuse	NC Pump 1D Standpipe Drain and Overflow Valves 1NV120 and 1NV121
1KPN-11 Primary Bkr Backup Fuse	Misc Control Power for 1ATC 24
6. DC Welding Circuits	
1EQCB0001 Primary Bkr-AA Backup Bkr-AB	Lower Containment DC Welding Circuit
1EQCB0002 Primary Bkr-AA Backup Bkr-AB	Upper Containment DC Welding Circuit

TABLE 16.8-1B
UNIT 2 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
1. 6900 VAC Swgr	
Primary Bkr RCP2A Backup Bkr 2TA-3	Reactor Coolant Pump 2A
Primary Bkr RCP2B Backup Bkr 2TB-3	Reactor Coolant Pump 2B
Primary BKR RCP2C Backup Bkr 2TC-3	Reactor Coolant Pump 2C
Primary BKR RCP2D Backup Bkr 2TD-3	Reactor Coolant Pump 2D
2. 600 VAC MCC	
2EMXC-F01B Primary Bkr Backup Fuse	Accumulator 2C Discharge Isol Vlv 2NI76A
2EMXC-F01C Primary Bkr Backup Fuse	Check Valve Test Header Cont Isol Vlv 2NI95A
2EMXC-F02A Primary Bkr Backup Fuse	Train A Alternate Power To ND LTDN Vlv 2ND1B
2EMXC-F02B Primary Bkr Backup Fuse	Hot Leg Inj. Check Vlv Test Isol Vlv 2NI153A
2EMXC-F02C Primary Bkr Backup Fuse	Cont Isol at 134 Deg Annulus Area Vlv 2VI312A
2EMXC-F03A Primary Bkr Backup Fuse	NC Pump 2C Thermal Barrier Outlet Isol Vlv 2KC345A
2EMXC-F03B Primary Bkr Backup Fuse	N2 to Prt Cont Isol Inside Vlv 2NC54A
2EMXC-F03C Primary Bkr Backup Fuse	Pressurizer Power-Operated Relief Isol Vlv 2NC33A

TABLE 16.8-1B
UNIT 2 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
2. 600 VAC MCC (Continued)	
2EMXC-F05A Primary Bkr Backup Fuse	NCDT Vent Inside Cont Isol Vlv 2WL450A
2EMXC-F05B Primary Bkr Backup Fuse	Cont Sump Pumps Discharge Inside Cont Isol Vlv 2WL825A
2EMXC-F05C Primary Bkr Backup Fuse	Vent Unit Cond Drn Tank Outside Cont Isol Vlv 2WL867A
2EMXC-F06A Primary Bkr Backup Fuse	NCDT Pumps Disch Inside Cont Isol Vlv 2WL805A
2EMXC-F07B Primary Bkr Backup Fuse	Cont H2 Purge Outlet Cont Isol Vlv 2VY17A
2EMXD-F01A Primary Bkr Backup Fuse	ND Pump 2A Suction From NC Loop B Vlv 2ND1B
2EMXD-F01B Primary Bkr Backup Fuse	Accumulator 2B Discharge Isol Vlv 2NI65B
2EMXD-F01C Primary Bkr Backup Fuse	NI Pump A to Hot Leg Check Vlv Test Isol Vlv 2NI122B
2EMXD-F02A Primary Bkr Backup Fuse	ND Pump 2B Suction from NC Loop C Vlv 2ND36B
2EMXD-F02B Primary Bkr Backup Fuse	ND to Hot Legs Chk 2NI125, 2NI129 Test Isol Vlv 2NI154B

TABLE 16.8-1B
UNIT 2 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
2. 600 VAC MCC (Continued)	
2EMXD-F02C Primary Bkr Backup Fuse	Pressurizer Power-Operated Relief Isol Vlv 2NC31B
2EMXD-F05A Primary Bkr Backup Fuse	Pressurizer Power-Operated Relief Isol Vlv 2NC35B
2EMXD-F05B Primary Bkr Backup Fuse	Rx Bldg Drain Hdr Inside Cont Isol Vlv 2KC429B
2EMXD-F05C Primary Bkr Backup Fuse	NCDT Hx Clnng Water Return Inside Isol Vlv 2KC332B
2EMXD-F06A Primary Bkr Backup Fuse	NC Pump 2B Thermal Barrier Outlet Isol Vlv 2KC364B
2EMXD-F06B Primary Bkr Backup Fuse	NC Pumps Rtn Hdr Inside Cont Isol Vlv 2KC424B
2EMXK-F01C Primary Bkr Backup Fuse	Backup N2 to PORV 2NC34A From Accum Tnk 2A Vlv 2NI438A
2EMXK-F02A Primary Bkr Backup Fuse	NC Pump 2A Thermal Barrier Outlet Isol Vlv 2KC394A
2EMXK-F02B Primary Bkr Backup Fuse	Lower Cont Vent Units Return Cont Isol Vlv 2RN484A

TABLE 16.8-1B
UNIT 2 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
2. 600 VAC MCC (Continued)	
2EMXK-F02C Primary Bkr Backup Fuse	NV Supply to Pressurizer Vlv 2NV037A
2EMXK-F03A Primary Bkr Backup Fuse	S/G C Blowdown Line Sample Inside Cont Isol Vlv 2NM210A
2EMXK-F04A Primary Bkr Backup Fuse	S/G A Upper Shell Sample Inside Cont Isol Vlv 2NM187A
2EMXK-F04B Primary Bkr Backup Fuse	S/G A Blowdown Line Sample Inside Cont Isol Vlv 2NM190A
2EMXK-F04C Primary Bkr Backup Fuse	S/G C Upper Shell Sample Inside Cont Isol Vlv 2NM207A
2EMXK-F06A Primary Bkr Backup Fuse	Hydrogen Skimmer Fan 2A Inlet Vlv 2VX1A
2EMXK-F07C Primary Bkr Backup Fuse	Electric Hydrogen Recombiner Power Supply Panel 2A
2EMXK-F09A Primary Bkr Backup Fuse	Accumulator 2A Discharge Isol Vlv 2NI54A
2EMXK-F09C Primary Bkr Backup Fuse	NC Pump Oil Fill Header Cont Isol Vlv 2NC196A

TABLE 16.8-1B
UNIT 2 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
2. 600 VAC MCC (Continued)	
2EMXK-F10A Primary Bkr Backup Fuse	Containment Air Return Damper 2ARF-D-2
2EMXK-F10B Primary Bkr Backup Fuse	VQ Fans Suction From Containment Isol Vlv 2VQ2A
2EMXK-F10C Primary Bkr Backup Fuse	Cont Air Addition Containment Isol Vlv 2VQ16A
2EMXK-F11A Primary Bkr Backup Fuse	Containment Air Return Fan Motor 2A
2EMXK-F11B Primary Bkr Backup Fuse	Hydrogen Skimmer Fan Motor 2A
2EMXL-F01B Primary Bkr Backup Fuse	Trn B Alternate Power to ND Letdn Vlv 2ND37A
2EMXL-F01C Primary Bkr Backup Fuse	NI Accum D Sample Line Inside Cont Isol Vlv 2NM81B
2EMXL-F02A Primary Bkr Backup Fuse	NC Pump 2D Thermal Barrier Outlet Isol Vlv 2KC413B
2EMXL-F02B Primary Bkr Backup Fuse	Air Handling units Glycol Return Cont Isol Vlv 2NF233B
2EMXL-F02C Primary Bkr Backup Fuse	NI Accum C Sample Line Inside Cont Isol Vlv 2NM78B
2EMXL-F03A Primary Bkr Backup Fuse	S/G D Blowdown Sample Line Inside Cont Isol Vlv 2NM220B

TABLE 16.8-1B
UNIT 2 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
2. 600 VAC MCC (Continued)	
2EMXL-F03B Primary Bkr Backup Fuse	NI Accum A Sample Line Inside Cont Isol Vlv 2NM72B
2EMXL-F03C Primary Bkr Backup Fuse	NI Accum B Sample Line Inside Cont Isol Vlv 2NM75B
2EMXL-F04A Primary Bkr Backup Fuse	S/G B Upper Shell Sample Inside Cont Isol Vlv 2NM197B
2EMXL-F04B Primary Bkr Backup Fuse	S/G B Blowdown Sample Line Inside Cont Isol Vlv 2NM200B
2EMXL-F04C Primary Bkr Backup Fuse	S/G D Upper Shell Sample Inside Cont Isol Vlv 2NM217B
2EMXL-F06A Primary Bkr Backup Fuse	Hydrogen Skimmer Fan 2B Inlet Vlv 2VX2B
2EMXL-F06B Primary Bkr Backup Fuse	Backup N2 to PORV 2NC32B from Accum Tnk 2B Vlv 2NI439B
2EMXL-F07C Primary Bkr Backup Fuse	Electric Hydrogen Recombiner Power Supply Panel 2B
2EMXL-F09A Primary Bkr Backup Fuse	Accumulator 2D Discharge Isol Vlv 2NI88B
2EMXL-F10A Primary Bkr Backup Fuse	Containment Air Return Damper 2ARF-D-4

TABLE 16.8-1B
UNIT 2 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
2. 600 VAC MCC (Continued)	
2EMXL-F10B Primary Bkr Backup Fuse	Reactor Vessel Head Vent Vlv 2NC251B
2EMXL-F10C Primary Bkr Backup Fuse	Reactor Vessel Head Vent Vlv 2NC252B
2EMXL-F11A Primary Bkr Backup Fuse	Containment Air Return Fan Motor 2B
2EMXL-F11B Primary Bkr Backup Fuse	Hydrogen Skimmer Fan Motor 2B
2EMXS-F01B Primary Bkr Backup Fuse	NC Pumps Seal Rtn Inside Cont Isol Vlv 2NV89A
2EMXS-F02A Primary Bkr Backup Fuse	ND Pump 2B Suction from NC Loop C Vlv 2ND37A
2EMXS-F02B Primary Bkr Backup Fuse	Reactor Vessel Head Vent Vlv 2NC250A
2EMXS-F03D Primary Bkr Backup Fuse	ND Pump 2A Suction from NC Loop B Vlv 2ND2A
2EMXS-F03E Primary Bkr Backup Fuse	Reactor Vessel Head Vent Vlv 2NC253A
2EMXS-F04B Primary Bkr Backup Fuse	S/G 2D Blowdown Inside Cont Isol Vlv 2BB8A
2EMXS-F04C Primary Bkr Backup Fuse	S/G 2B Blowdown Inside Cont Isol Vlv 2BB19A

TABLE 16.8-1B
UNIT 2 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
2. 600 VAC MCC (Continued)	
2EMXS-F05A Primary Bkr Backup Fuse	S/G 2A Blowdown Inside Cont Isol Vlv 2BB56A
2EMXS-F05B Primary Bkr Backup Fuse	S/G 2C Blowdown Inside Cont Isol Vlv 2BB60A
2EMXS-F05C Primary Bkr Backup Fuse	Pzr Liquid Sample Line Inside Cont Isol Vlv 2NM3A
2EMXS-F06A Primary Bkr Backup Fuse	Pzr Steam Sample Line Inside Cont Isol Vlv 2NM6A
2EMXS-F06B Primary Bkr Backup Fuse	NC Hot Leg A Sample Line Inside Cont Isol Vlv 2NM22A
2EMXS-F06C Primary Bkr Backup Fuse	NC Hot Leg C Sample Line Inside Cont Isol Vlv 2NM25A
2MXM-F01A Primary Bkr Backup Fuse	Reactor Coolant Pump Motor Drain Tank Pump Motor
2MXM-F02A Primary Bkr Backup Fuse	NC Pump 2B Oil Lift Pump Motor 1
2MXM-F02B Primary Bkr Backup Fuse	NC Pump 2C Oil Lift Pump Motor 1
2MXM-F03A Primary Bkr Backup Fuse	Ice Condenser Power Transformer ICT2A
2MXM-F03B Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2B6 Fan Motor A & B

TABLE 16.8-1B
UNIT 2 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
2. 600 VAC MCC (Continued)	
2MXM-F03C Primary Bkr Backup Fuse	Ice Condenser Equipment Access Door Hoist Motor 2A
2MXM-F04D Primary Bkr Backup Fuse	Lighting Transformer 2LR10
2MXM-F04E Primary Bkr Backup Fuse	Lighting Transformer 2LR13
2MXM-F05A Primary Bkr Backup Fuse	175 Ton Polar Crane and 25 Ton Aux Crane No. R014 and R016
2MXM-F05C Primary Bkr Backup Fuse	Upper Containment Welding Feeder
2MXM-F06A Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2A7 Fan Motor A & B
2MXM-F06B Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2B8 Fan Motor A & B
2MXM-F06C Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2A9 Fan Motor A & B
2MXM-F06D Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2B10 Fan Motor A & B
2MXM-F07B Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2A13 Fan Motor A & B
2MXM-F07C Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2B14 Fan Motor A & B

TABLE 16.8-1B
UNIT 2 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
2. 600 VAC MCC (Continued)	
2MXM-F08D Primary Bkr Backup Fuse	Ice Condenser Refrigeration Floor Cool Defrost Heater 2A
2MXM-F09A Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2A1 Fan Motor A & B
2MXM-F09B Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2B2 Fan Motor A & B
2MXM-F09C Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2A3 Fan Motor A & B
2MXM-F09D Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2B4 Fan Motor A & B
2MXM-F10A Primary Bkr Backup Fuse	Containment Floor and Equipment Sump Pump Motor 2A1
2MXM-F10B Primary Bkr Backup Fuse	Containment Floor and Equipment Sump Pump Motor 2B1
2MXN-F01F Primary Bkr Backup Fuse	Stud Tensioner Hoist 2B
2MXN-F02A Primary Bkr Backup Fuse	NC Pump 2B Oil Lift Pump Motor 2
2MXN-F02B Primary Bkr Backup Fuse	NC Pump 2C Oil Lift Pump Motor 2
2MXN-F02E Primary Bkr Backup Fuse	Stud Tensioner Hoist 2C

TABLE 16.8-1B
UNIT 2 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
2. 600 VAC MCC (Continued)	
2MXN-F03A Primary Bkr Backup Fuse	Ice Condenser Power Transformer ICT2B
2MXN-F03B Primary Bkr Backup Fuse	Ice Condenser Bridge Crane 2 Crane No. R012
2MXN-F03E Primary Bkr Backup Fuse	Stud Tensioner Hoist 2A
2MXN-F04D Primary Bkr Backup Fuse	Lighting Transformer 2LR5
2MXN-F04E Primary Bkr Backup Fuse	Lighting Transformer 2LR6
2MXN-F05A Primary Bkr Backup Fuse	Ice Condenser Refrigeration Floor Cool Defrost Heater 2B
2MXN-F05B Primary Bkr Backup Fuse	Ice Condenser Refrigeration Floor Cool Pump Motor 2B
2MXN-F05C Primary Bkr Backup Fuse	Ice Condenser Equipment Access Door Hoist Motor 2B
2MXN-F06A Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2B1 Fan Motor A & B
2MXN-F06B Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2A2 Fan Motor A & B
2MXN-F06C Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2B3 Fan Motor A & B

TABLE 16.8-1B
UNIT 2 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
2. 600 VAC MCC (Continued)	
2MXN-F06D Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2A4 Fan Motor A & B
2MXN-F07B Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2B5 Fan Motor A & B
2MXN-F07C Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2A6 Fan Motor A & B
2MXN-F08A Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2B7 Fan Motor A & B
2MXN-F08B Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2A8 Fan Motor A & B
2MXN-F08C Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2B9 Fan Motor A & B
2MXN-F08D Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2A10 Fan Motor A & B
2MXN-F09A Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2B11 Fan Motor A & B
2MXN-F09B Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2A12 Fan Motor A & B
2MXN-F09C Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2B13 Fan Motor A & B
2MXN-F09D Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2A14 Fan Motor A & B

TABLE 16.8-1B
UNIT 2 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
2. 600 VAC MCC (Continued)	
2MXN-F10A Primary Bkr Backup Fuse	Containment Floor and Equipment Sump Pump Motor 2A2
2MXN-F10B Primary Bkr Backup Fuse	Containment Floor and Equipment Sump Pump Motor 2B2
2MXN-F10C Primary Bkr Backup Fuse	Incore Instrumentation Sump Pump Motor 2
2MXN-F10D Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2B15 Fan Motor A & B
2MXO-F01A Primary Bkr Backup Fuse	Upper Containment Air Return Fan Motor 2C
2MXO-F02B Primary Bkr Backup Fuse	Control Rod Drive Vent Fan Motor 2A
2MXO-F03A Primary Bkr Backup Fuse	Lower Containment Ventilation Unit 2C Fan Motor
2MXO-F04C Primary Bkr Backup Fuse	Upper Containment Ventilation Unit 2C Fan Motor
2MXO-F05C Primary Bkr Backup Fuse	Containment Pipe Tunnel Booster Fan Motor 2A
2MXP-F01A Primary Bkr Backup Fuse	Upper Containment Return Air Fan 2B

TABLE 16.8-1B
UNIT 2 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
2. 600 VAC MCC (Continued)	
2MXP-F02B Primary Bkr Backup Fuse	Control Rod Drive Vent Fan Motor 2B
2MXP-F03A Primary Bkr Backup Fuse	Lower Containment Ventilation Unit 2B Fan Motor
2MXP-F04D Primary Bkr Backup Fuse	Upper Containment Ventilation Unit 2B Fan Motor
2MXP-F05C Primary Bkr Backup Fuse	Containment Pipe Tunnel Booster Fan Motor 2B
2MXQ-F01A Primary Bkr Backup Fuse	Upper Containment Return Air Fan Motor 2A
2MXQ-F01B Primary Bkr Backup Fuse	Incore Instrument Room Venti- lation Unit 2A Fan Motor
2MXQ-F02B Primary Bkr Backup Fuse	Control Rod Drive Vent Fan Motor 2C
2MXQ-F03A Primary Bkr Backup Fuse	Lower Containment Ventilation Unit 2A Fan Motor
2MXQ-F04C Primary Bkr Backup Fuse	Upper Containment Ventilation Unit 2A Fan Motor
2MXR-F01A Primary Bkr Backup Fuse	Upper Containment Return Air Fan Motor 2D

TABLE 16.8-1B
UNIT 2 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
2. 600 VAC MCC (Continued)	
2MXR-F01B Primary Bkr Backup Fuse	Incore Instrument Room Ventila- tion Unit 2B Fan Motor
2MXR-F02B Primary Bkr Backup Fuse	Control Rod Drive Vent Fan Motor 2D
2MXR-F03A Primary Bkr Backup Fuse	Lower Containment Ventilation Unit 2D Fan Motor
2MXR-F04C Primary Bkr Backup Fuse	Upper Containment Ventilation Unit 2D Fan Motor
2MXY-F02A Primary Bkr Backup Fuse	NC Pump 2A Oil Lift Pump Motor 1
2MXY-F02B Primary Bkr Backup Fuse	NC Pump 2D Oil Lift Pump Motor 1
2MXY-F02C Primary Bkr Backup Fuse	Reactor Building Lower Containment Welding Machine Receptacle 2RCPL0185
2MXY-F02D Primary Bkr Backup Fuse	Upper Containment Reactor Building Welding Receptacle 2RCPL0193
2MXY-F03A Primary Bkr Backup Fuse	Reactor Coolant Drain Tank Pump Motor 2A
2MXY-F03D Primary Bkr Backup Fuse	Ice Condenser Refrigeration Floor Cool Pump Motor 2A
2MXY-F05A Primary Bkr Backup Fuse	Lighting Transformer 2LR8
2MXY-F05B Primary Bkr Backup Fuse	Lighting Transformer 2LR11

TABLE 16.8-1B
UNIT 2 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
2. 600 VAC MCC (Continued)	
2MX-Y-F05C Primary Bkr Backup Fuse	Lighting Transformer 2LR14
2MX-Y-F06A Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2A5 Fan Motor A & B
2MX-Y-F06B Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2A11 Fan Motor A & B
2MX-Y-F06C Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2B12 Fan Motor A & B
2MX-Y-F06D Primary Bkr Backup Fuse	Ice Condenser Air Handling Unit 2A15 Fan Motor A & B
2MX-Y-F07C Primary Bkr Backup Fuse	EXH Reactor Building Equipment Hatch Jib Cranes R035 & R036
2MX-Y-F08A Primary Bkr Backup Fuse	Incore Drive Assembly Motor 2A
2MX-Y-F08B Primary Bkr Backup Fuse	Incore Drive Assembly Motor 2C
2MX-Y-F08C Primary Bkr Backup Fuse	Incore Drive Assembly Motor 2E
2MX-Y-F08D Primary Bkr Backup Fuse	Lower Containment Auxiliary Charcoal Filter Unit Fan Motor 2A
2MX-Z-F02A Primary Bkr Backup Fuse	NC Pump 2A Oil Lift Pump Motor 2

TABLE 16.8-1B
UNIT 2 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
2. 600 VAC MCC (Continued)	
2MXZ-F02B Primary Bkr Backup Fuse	NC Pump 2D Oil Lift Pump Motor 2
2MXZ-F03A Primary Bkr Backup Fuse	Reactor Coolant Drain Tank Pump Motor 2B
2MXZ-F04B Primary Bkr Backup Fuse	Lighting Transformer 2LR1
2MXZ-F04C Primary Bkr Backup Fuse	Lighting Transformer 2LR2
2MXZ-F04D Primary Bkr Backup Fuse	Lighting Transformer 2LR3
2MXZ-F05A Primary Bkr Backup Fuse	Reactor Coolant Pump Jib Hoist No. R023 TH R026
2MXZ-F05C Primary Bkr Backup Fuse	Lower Containment Auxiliary Charcoal Filter Unit Fan Motor 2B
2MXZ-F06A Primary Bkr Backup Fuse	Incore Drive Assembly Motor 2B
2MXZ-F06B Primary Bkr Backup Fuse	Incore Drive Assembly Motor 2D
2MXZ-F06C Primary Bkr Backup Fuse	Incore Drive Assembly Motor 2F
2MXZ-F06D Primary Bkr Backup Fuse	Lower Containment Reactor Building Welding Receptacle 2RCPL0194
2MXZ-F07B Primary Bkr Backup Fuse	Lighting Transformer 2LR4

TABLE 16.8-1B
UNIT 2 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
2. 600 VAC MCC (Continued)	
2MXZ-F07C Primary Bkr Backup Fuse	5 Ton Jib Crane in Containment Crane No. R006
2MXZ-F07D Primary Bkr Backup Fuse	Reactor Cavity Manipulator Crane No. R008 & R028
2MXZ-F08A Primary Bkr Backup Fuse	Steam Generator Drain Pump Motor 2
2MXZ-F08C Primary Bkr Backup Fuse	15 Ton Equipment Access Hatch Hoist Crane No. R010
2MXZ-F08D Primary Bkr Backup Fuse	Control Rod Drive 2 Ton Jib Hoist Crane No. R018
2MXZ-F08E Primary Bkr Backup Fuse	Reactor Side Fuel Handling Control Console
SMXG-F06B Primary Bkr Backup Fuse	Standby Makeup Pump Drain Isol Vlv 2NV876
SMXG-R05B Primary Bkr Backup Fuse	Pressurizer Heaters 28, 55 & 56
SMXG-F06C Primary Bkr Backup Fuse	Standby Makeup Pump to Seal Water Line Isol Vlv 2NV877
3. 600 VAC Pressurizer Heater Power Panels	
PHP2A-F01A Primary Bkr Backup Fuse	Pressurizer Heaters 1, 2, & 22
PHP2A-F01B Primary Bkr Backup Fuse	Pressurizer Heaters 5, 6, & 27

TABLE 16.8-1B
UNIT 2 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
3. 600 VAC Pressurizer Heater Power Panels (Continued)	
PHP2A-F01C Primary Bkr Backup Fuse	Pressurizer Heaters 9, 10 & 32
PHP2A-F02C Primary Bkr Backup Fuse	Pressurizer Heaters 11, 12 & 35
PHP2A-F02D Primary Bkr Backup Fuse	Pressurizer Heaters 13, 14 & 37
PHP2A-F02E Primary Bkr Backup Fuse	Pressurizer Heaters 17, 18 & 42
PHP2B-F01B Primary Bkr Backup Fuse	Pressurizer Heaters 26, 53 & 54
PHP2B-F01C Primary Bkr Backup Fuse	Pressurizer Heaters 31, 59 & 60
PHP2B-F02C Primary Bkr Backup Fuse	Pressurizer Heaters 36, 65 & 66
PHP2B-F02D Primary Bkr Backup Fuse	Pressurizer Heaters 41, 71 & 21
PHP2B-F02E Primary Bkr Backup Fuse	Pressurizer Heaters 46, 77 & 78
PHP2C-F01A Primary Bkr Backup Fuse	Pressurizer Heaters 7, 8 & 30

TABLE 16.8-1B
UNIT 2 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
3. 600 VAC Pressurizer Heater Power Panels (Continued)	
PHP2C-F01B Primary Bkr Backup Fuse	Pressurizer Heaters 19, 20 & 45
PHP2C-F01C Primary Bkr Backup Fuse	Pressurizer Heaters 24, 51 & 52
PHP2C-F01D Primary Bkr Backup Fuse	Pressurizer Heaters 29, 57 & 58
PHP2C-F02C Primary Bkr Backup Fuse	Pressurizer Heaters 34, 63 & 64
PHP2C-F02D Primary Bkr Backup Fuse	Pressurizer Heaters 39, 69 & 70
PHP2C-F02E Primary Bkr Backup Fuse	Pressurizer Heaters 44, 75 & 76
PHP2D-F01A Primary Bkr Backup Fuse	Pressurizer Heaters 3, 4 & 25
PHP2D-F01B Primary Bkr Backup Fuse	Pressurizer Heaters 15, 16 & 40
PHP2D-F01C Primary Bkr Backup Fuse	Pressurizer Heaters 23, 49 & 50
PHP2D-F02C Primary Bkr Backup Fuse	Pressurizer Heaters 33, 61 & 62
PHP2D-F02D Primary Bkr Backup Fuse	Pressurizer Heaters 38, 67 & 68

TABLE 16.8-1B
UNIT 2 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
3. 600 VAC Pressurizer Heater Power Panels (Continued)	
PHP2D-F02E Primary Bkr Backup Fuse	Pressurizer Heaters 43, 73 & 74
4. 250 VDC Reactor Building Deadlight Panelboard	
2DLD-2 Primary Bkr Backup Fuse	Lighting Panelboard No. 2LR1, 2LR2, 2LR3, 2LR4
2DLD-3 Primary Bkr Backup Fuse	Lighting Panelboard No. 2LR13, 2LR14
2DLD-4 Primary Bkr Backup Fuse	Lighting Panelboard No. 2LR5, 2LR6
2DLD-5 Primary Bkr Backup Fuse	Lighting Panelboard No. 2LR10, 2LR11
2DLD-10 Primary Bkr Backup Fuse	Lighting Panelboard No. 2LR8
5. 120 VAC Panelboards	
2ELB1-5 Primary Bkr Backup Fuse	Emergency A.C. Lighting
2ELB1-7 Primary Bkr Backup Fuse	Emergency A.C. Lighting
2ELB1-13 Primary Bkr Backup Fuse	Emergency A.C. Lighting
2ELB1-15 Primary Bkr Backup Fuse	Emergency A.C. Lighting

TABLE 16.8-1B
UNIT 2 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
5. 120 VAC Panelboards (Continued)	
2ELB1-17 Primary Bkr Backup Fuse	Emergency A.C. Lighting
2KPM-1 Primary Bkr Backup Fuse	NC Pump Motor 2A Space Heater
2KPM-2 Primary Bkr Backup Fuse	NC Pump Motor 2C Space Heater
2KPM-7-1 Primary Bkr Backup Fuse	Lower Containment Vent Unit 2A Fan Motor Space Heater
2KPM-8-1 Primary Bkr Backup Fuse	Lower Containment Vent Unit 2C Fan Motor Space Heater
2KPM-24 Primary Bkr Backup Fuse	Control Rod Drive Vent Fan Motor 2A, 2B, 2C, 2D Space Heaters
2KPM-24-10 Primary Fuse Backup Fuse	Control Rod Drive Vent Fan Motor 2A Space Heaters
2KPM-24-11 Primary Fuse Backup Fuse	Control Rod Drive Vent Fan Motor 2B Space Heaters
2KPM-24-12 Primary Fuse Backup Fuse	Control Rod Drive Vent Fan Motor 2C Space Heaters
2KPM-24-13 Primary Fuse Backup Fuse	Control Rod Drive Vent Fan Motor 2D Space Heaters
2KPM-33 Primary Bkr Backup Fuse	NI Temperature Transmitters 2NITT5800, 2NITT5810 2NITT5820, 2NITT5830
2KPM-33-06 Primary Fuse	NI Temperature Transmitter 2NITT5800

TABLE 16.8-1B

UNIT 2 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
5. 120 VAC Panelboards (Continued)	
2KPM-33-07 Primary Fuse	NI Temperature Transmitter 2NITT5810
2KPM-33-08 Primary Fuse	NI Temperature Transmitter 2NITT5820
2KPM-33-09 Primary Fuse	NI Temperature Transmitter 2NITT5830
2KPN-1 Primary Bkr Backup Fuse	NC Pump Motor 2B Space Heater
2KPN-2 Primary Bkr Backup Fuse	NC Pump Motor 2D Space Heater
2KPN-7-1 Primary Bkr Backup Fuse	Lower Containment Vent Unit 2B Fan Motor Space Heater
2KPN-08 Primary Bkr Backup Fuse	Lower Containment Vent Unit 2D Fan Motor Space Heater, NC Pump Seal Stand Pipe Vent and Drain Valves 2NV105, 2NV106, 2NV110, 2NV111, 2NV115, 2NV116, 2NV120, 2NV121
2KPN-08-01 Primary Fuse Backup Fuse	Lower Containment Vent Unit 2D Fan Motor Space Heater
2KPN-08-02 Primary Fuse Backup Fuse	NC Pump 2A Standpipe Drain and Overflow Valves 2NV105 and 2NV106
2KPN-08-03 Primary Fuse Backup Fuse	NC Pump 2B Standpipe Drain and Overflow Valves 2NV110 and 2NV111
2KPN-08-04 Primary Fuse Backup Fuse	NC Pump 2C Standpipe Drain and Overflow Valves 2NV115 and 2NV116

TABLE 16.8-1B
UNIT 2 CONTAINMENT PENETRATION CONDUCTOR OVERCURRENT PROTECTIVE DEVICES

<u>DEVICE NUMBER & LOCATION</u>	<u>SYSTEM POWERED</u>
5. 120 VAC Panelboards (Continued)	
2KPN-08-05 Primary Fuse Backup Fuse	NC Pump 2D Standpipe Drain and Overflow Valves 2NV120 and 2NV121
2KPN-11 Primary Bkr Backup Fuse	Misc Control Power for 2ATC 24
6. DC Welding Circuits	
2EQCB0001 Primary Bkr - AA Backup Bkr - AB	Lower Containment DC Welding Circuit
2EQCB0002 Primary Bkr - AA Backup Bkr - AB	Upper Containment DC Welding Circuit

TESTING REQUIREMENTS (con't)

- iii. At least once per 6 months by performance of a system flush of the outside distribution loop to verify no flow blockage by fully opening the hydraulically most remote hydrant,
- iv. At least once per 12 months by cycling each testable valve in the flow path through at least one complete cycle of full travel,

Exception: Valves that are cycled as part of the ASME Section XI, Subsection IWV (Inservice Testing of Valves in Nuclear Power Plants) program (RF389B, RF447B, RF457B) are exempt from this requirement.

- v. At least once per 18 months by verifying that each valve (manual, power-operated, or automatic) in the flow path which is inaccessible during plant operations is in its correct position,
- vi. At least once per 18 months by performing a system functional test which includes simulated automatic actuation of the system throughout its operating sequence, and:
 - 1) Verifying that each pump develops at least 2500 gpm at a net pressure of 144 psig by testing at three points on the pump performance curve,
 - 2) Cycling each valve in the flow path which is not testable during plant operation through at least one complete cycle of full travel, and
 - 3) Verifying that each fire suppression pump starts within 10 psig of its intended starting pressure (A pump, primary switch-95 psig; B pump, primary switch -90 psig; and C pump, primary switch-85 psig).
- vii. At least once per 3 years by performing a flow test of the system in accordance with Chapter 8, Section 16 of the Fire Protection Handbook, 15th Edition, published by the National Fire Protection Association.

REFERENCES:

- 1) Catawba FSAR, Section 9.5.1
- 2) Catawba SER, Section 9.5.1
- 3) Catawba SER, Supplement 2, Section 9.5.1

REFERENCES (cont'd)

- 4) Catawba SER, Supplement 3, Section 9.5.1
- 5) Catawba Fire Protection Review, as revised
- 6) Catawba Fire Protection Commitment Index
- 7) Startup and Normal Operation of Fire Protection System - OP/1/A/6400/02A

BASES:

The OPERABILITY of the Fire Suppression Systems ensures that adequate fire suppression capability is available to confine and extinguish fires occurring in any portion of the facility where safety-related equipment is located. The Fire Suppression System consists of the water system, spray, and/or sprinklers, CO₂, and fire hose stations. The collective capability of the Fire Suppression Systems is adequate to minimize potential damage to safety-related equipment and is a major element in the facility Fire Protection Program.

The ability to demonstrate that the valves in the RF/RV flow path can be cycled is critical to maintaining the system properly. The containment isolation valves (RF389B and RF447B) and the annulus sprinkler system isolation valve (RF457B) are required to be cycled or stroked at least once every quarter as part of the Catawba IWV program. Therefore, credit can be taken for cycling these valves under the IWV program, and they do not need to be cycled annually to meet the SLC criteria.

The proper positioning of RF/RV valves is critical to delivering fire suppression water at the fire source as quickly as possible. The option of increasing or decreasing the frequency of valve position verification allows the ability to optimize plant operational resources. Should an adverse trend develop with RF/RV valve positions, the frequency of verification shall be increased. Similarly if the RF/RV valve position trends are positive, the frequency of verification could be decreased. Through programmed trending of RF/RV as found valve positions, the RF/RV System will be maintained at predetermined reliability standards. The RF/RV System Engineer is responsible for trending and determining verification frequencies based on the following:

Initially the frequency will be monthly.

Annually review the results of the completed valve position verification procedures.

- If the results demonstrate that the valves are found in the correct position at least 99% of the time, the frequency of conducting the valve position verification may be decreased from - monthly to quarterly or - quarterly to semiannually or -

semiannually to annually - as applicable. The frequency shall not be extended beyond annually (plus grace period).

- If the results demonstrate that the valves are not found in the correct position at least 99% of the time, the frequency of conducting the valve position verification shall be increased from - annually to semiannually or - semiannually to quarterly or - quarterly to monthly - as applicable. The valve position verification need not be conducted more often than monthly.

In the event that portions of the Fire Suppression Systems are inoperable, alternate backup fire-fighting equipment is required to be made available in the affected areas until the inoperable equipment is restored to service. When the inoperable fire-fighting equipment is intended for use as a backup means of fire suppression, a longer period of time is allowed to provide an alternate means of fire fighting than if the inoperable equipment is the primary means of fire suppression.

In the event the Fire Suppression Water System becomes inoperable, immediate corrective measures must be taken since this system provides the major fire suppression capability of the plant.

This Selected Licensee Commitment is part of the Catawba Fire Protection Program and therefore subject to the provisions of the Catawba Facility Operating License Conditions #6 for NPF-52 and #8 for NPF-35.

16.9 AUXILIARY SYSTEMS - FIRE PROTECTION SYSTEMS

16.9-2 SPRINKLER SYSTEMS

COMMITMENT:

Sprinkler systems in Table 16.9-1 shall be OPERABLE:

APPLICABILITY:

Whenever equipment protected by the Sprinkler System is required to be OPERABLE.

REMEDIAL ACTION:

- a. With one or more of the above required Sprinkler Systems inoperable, within 1 hour, in accordance with the "Fire Watch Code" given in Table 16.9-1, established a continuous fire watch or an hourly fire watch.
- b. Verify backup fire suppression (fire extinguisher, nearby fire hose station) is available, and if not, establish backup fire suppression equipment for the affected area. This must be accomplished within the 1 hour given above.

TESTING REQUIREMENTS:

- a. Each of the above required Sprinkler Systems shall be demonstrated OPERABLE:
 - i. By verifying that each valve (manual or power-operated) in the flow path, which is accessible during plant operations, is in the correct position. The frequency of the verification shall be determined by the performance based criteria stated in the Bases Section.
 - ii. At least once per 12 months by cycling each testable valve in the flow path through at least one complete cycle of full travel,

Exception: Valves that are cycled as part of the ASME Section XI, Subsection IWV (Inservice Testing of Valves in Nuclear Power Plants) program (RF389B, RF447B, RF457B) are exempt from this requirement.
 - iii. At least once per 18 months by verifying that each valve (manual or power-operated) in the flow path which is inaccessible during plant operations is in its correct position and

TESTING REQUIREMENTS: (cont'd)

- iv. At least once per 18 months:
 - 1) By performing a system functional test which includes an inspector's test connection flow test and cycling each valve in the flow path that is not testable during plant operation through at least one complete cycle of full travel.
 - 2) By a visual inspection of each Sprinkler System starting at the system isolation valve to verify the system's integrity; and
 - 3) By a visual inspection of each nozzle's spray area to verify the spray pattern is not obstructed.

REFERENCES:

- 1) Catawba FSAR, Section 9.5.1
- 2) Catawba SER, Section 9.5.1
- 3) Catawba SER, Supplement 2, Section 9.5.1
- 4) Catawba SER, Supplement 3, Section 9.5.1
- 5) Catawba Fire Projection Review, as revised
- 6) Catawba Fire Protection Commitment Index

BASES:

The OPERABILITY of the Fire Suppression Systems ensures that adequate fire suppression capability is available to confine and extinguish fires occurring in any portion of the facility where safety-related equipment is located. The Fire Suppression System consists of the water system, sprinklers, CO₂, and fire hose stations. The collective capability of the Fire Suppression Systems is adequate to minimize potential damage to safety-related equipment and is a major element in the facility Fire Protection Program.

The ability to demonstrate that the valves in the RF/RV flow path can be cycled is critical to maintaining the system properly. The containment isolation valves (RF389B and RF447B) and the annulus sprinkler system isolation valve (RF457B) are required to be cycled or stroked at least once every quarter as part of the Catawba IWV program. Therefore, credit can be taken for cycling these valves under the IWV program, and they do not need to be cycled annually to meet the SLC criteria.

The proper positioning of RF/RV valves is critical to delivering fire suppression water at the fire source as quickly as possible. The option of increasing or decreasing the frequency of valve position verification allows the ability to

BASES (cont'd)

optimize plant operational resources. Should an adverse trend develop with RF/RV valve positions, the frequency of verification shall be increased. Similarly if the RF/RV valve position trends are positive, the frequency of verification could be decreased. Through programmed trending of RF/RV as found valve positions, the RF/RV System will be maintained at predetermined reliability standards. The RF/RV System Engineer is responsible for trending and determining verification frequencies based on the following:

Initially the frequency will be monthly.

Annually review the results of the completed valve position verification procedures.

- If the results demonstrate that the valves are found in the correct position at least 99% of the time, the frequency of conducting the valve position verification may be decreased from - monthly to quarterly or - quarterly to semiannually or - semiannually to annually - as applicable. The frequency shall not be extended beyond annually (plus grace period).
- If the results demonstrate that the valves are not found in the correct position at least 99% of the time, the frequency of conducting the valve position verification shall be increased from - annually to semiannually or - semiannually to quarterly or - quarterly to monthly - as applicable. The valve position verification need not be conducted more often than monthly.

In the event that portions of the Fire Suppression Systems are inoperable, alternate backup fire-fighting equipment is required to be made available in the affected areas until the inoperable equipment is restored to service. When the inoperable fire-fighting equipment is intended for use as a backup means of fire suppression, a longer period of time is allowed to provide an alternate means of fire fighting than if the inoperable equipment is the primary means of fire suppression.

This Selected Licensee Commitment is part of the Catawba Fire Protection Program and therefore subject to the provisions of Section 2.C. of the Catawba Facility Operating Licenses.