SECTION 10.0 - AUXILIARY SYSTEMS

TABLE OF CONTENTS

| SECTION | TITLE | |
|--|---|--|
| 10.1 | SUMMARY DESCRIPTION | |
| 10.2 10.2.1 10.2.2 | NEW FUEL STORAGE Introduction Description | |
| 10.3.4.1.1.4.2 10.3.4.1.1.4.3 10.3.4.1.1.4.4 | SPENT FUEL STORAGE Power Generation Objective Power Generation Design Basis Safety Design Basis Description High Density Spent Fuel Storage Racks Cell Assembly Cell Enclosure Neutron Absorbing Material Wrapper Plate Neutron Absorbing Inserts Seismic and Structural Integrity Fuel Handling Accidents Criticality Analysis Abnormal or Accident Conditions Boraflex Credit for the Interim Period Base Plate Base Support Assembly Spent Fuel Pool Fuel Pool Level Alarms Safety Evaluation Inspection and Testing Boraflex Inspection and Testing Neutron Absorbing Inserts Surveillance Program Fast Start Coupon Surveillance Program Full rack Insert Surveillance Inspections | |
| 10.4 10.4.1 10.4.2 10.4.3 | TOOLS AND SERVICING EQUIPMENT Introduction Fuel Servicing Equipment Servicing Aids | |

| SECTION | TITLE |
|--|---|
| 10.4.4 10.4.5 10.4.5.1 10.4.6 10.4.7 10.4.8 10.4.9 10.4.10 10.4.11 10.4.11.1 10.4.11.1 | Reactor Vessel Servicing Equipment In-Vessel Servicing Equipment Reactor Cavity Work Platform Refueling Equipment Storage Equipment Under-Reactor-Vessel Servicing Equipment Equipment Storage Pit Reactor Building Crane Heavy Loads Compliance NUREG-0612 Phase I Requirements NUREG-0612 Phase II Requirements Safety Evaluation |
| 10.5 10.5.1 10.5.2 10.5.3 10.5.4 | FUEL POOL COOLING AND CLEANUP SYSTEM Power Generation Objective Power Generation Design Basis Description Inspection and Testing |
| 10.6 10.6.1 10.6.2 10.6.3 10.6.4 | SERVICE WATER SYSTEM Power Generation Objective Power Generation Design Basis Description Inspection and Testing |
| 10.7 10.7.1 10.7.2 10.7.3 10.7.4 10.7.5 10.7.6 | HIGH-PRESSURE SERVICE WATER SYSTEM Safety Objective Safety Design Basis Power Generation Objective Power Generation Design Basis Description Safety Evaluation Inspection and Testing |
| 10.8 10.8.1 10.8.2 10.8.3 10.8.4 | REACTOR BUILDING COOLING WATER SYSTEM Power Generation Objective Power Generation Design Basis Description Inspection and Testing |
| 10.9 10.9.1 10.9.2 10.9.3 | EMERGENCY SERVICE WATER SYSTEM Safety Objective Safety Design Basis Description |

| SECTION | TITLE |
|---|--|
| 10.9.4 10.9.5 | Safety Evaluation Inspection and Testing |
| 10.10 10.10.1 10.10.2 10.10.3 10.10.4 | TURBINE BUILDING COOLING WATER SYSTEM Power Generation Objective Power Generation Design Basis Description Inspection and Testing |
| 10.11 10.11.1 10.11.2 10.11.3 10.11.4 | CHILLED WATER SYSTEM Power Generation Objective Power Generation Design Basis Description Inspection and Testing |
| 10.12 | FIRE PROTECTION PROGRAM |
| 10.13 10.13.1 10.13.2 10.13.3 10.13.4 10.13.4.1 10.13.5 10.13.6 | MAIN CONTROL ROOM AIR CONDITIONING Power Generation Objective Power Generation Design Basis Safety Design Basis Description Control Room Habitability Safety Evaluation Inspection and Testing |
| 10.14 10.14.1 10.14.2 10.14.3 10.14.3.1 10.14.3.2 10.14.3.3 10.14.4 10.14.5 | EMERGENCY VENTILATING SYSTEMS Safety Objective Safety Design Basis Description Emergency Switchgear and Battery Rooms Standby Diesel Generator Rooms Service Water Pump Rooms Safety Evaluation Inspection and Testing |
| 10.15 | PLANT HEATING, VENTILATING, AND AIR CONDITIONING |
| 10.15.1 10.15.2 10.15.3 10.15.3.1 10.15.3.2 10.15.3.3 10.15.3.4 | SYSTEMS Power Generation Objective Power Generation Design Basis Description General Turbine Building Radwaste Building Miscellaneous Rooms and Buildings |
| CHAPTER 10 | 10-iii REV. 25, APRIL 2015 |

| SECTION | TITLE |
|--|---|
| 10.15.4 10.16 10.16.1 10.16.2 10.16.3 10.16.4 | Inspection and Testing MAKEUP WATER TREATMENT SYSTEM Power Generation Objective Power Generation Design Basis Description Inspection and Testing |
| 10.17 10.17.1 10.17.2 10.17.3 10.17.4 10.17.5 10.17.6 10.17.7 | INSTRUMENT AIR, SERVICE AIR, AND INSTRUMENT NITROGEN SYSTEMS Safety Objective Safety Design Basis Power Generation Objective Power Generation Design Basis Description Safety Evaluation Inspection and Testing |
| 10.18 10.18.1 10.18.2 10.18.3 10.18.4 | DOMESTIC AND SANITARY WATER SYSTEM Power Generation Objective Power Generation Design Basis Description Inspection and Testing |
| 10.19 10.19.1 10.19.2 10.19.3 10.19.3.1 10.19.3.2 10.19.3.3 10.19.3.4 10.19.3.5 10.19.4 | PLANT EQUIPMENT AND FLOOR DRAINAGE SYSTEM Power Generation Objective Power Generation Design Basis Description Radioactive Equipment Drainage System Floor Drainage System Non-Radioactive Drainage System Miscellaneous Drainage System Torus Dewatering Facilities Inspection and Testing |
| 10.20 10.20.1 10.20.2 10.20.3 10.20.4 | PROCESS SAMPLING SYSTEM Power Generation Objective Power Generation Design Basis Description Inspection and Testing |
| 10.21 10.21.1 10.21.2 10.21.3 10.21.4 | COMMUNICATIONS SYSTEMS Power Generation Objective Power Generation Design Basis Description Inspection and Testing |
| | |

| SECTION | TITLE |
|---|---|
| | |
| 10.22 10.22.1 10.22.2 10.22.3 10.22.4 | STATION LIGHTING SYSTEM Power Generation Objective Power Generation Design Basis Description Inspection and Testing |
| 10.23 10.23.1 10.23.2 10.23.3 10.23.4 | PLANT AUXILIARY BOILERS Power Generation Objective Power Generation Design Basis Description Inspection and Testing |
| 10.24 10.24.1 10.24.2 10.24.3 10.24.4 | EMERGENCY HEAT SINK Power Generation Objective Power Generation Design Basis Description Inspection and Testing |

SECTION 10.0 - AUXILIARY SYSTEMS

LIST OF TABLES

| TABLE | TITLE |
|----------|---|
| 10.3.1 | Available Makeup Water Sources |
| 10.3.2 | Rack Module Data (per unit) |
| 10.3.6.1 | Long-Term Surveillance Coupons |
| 10.3.6.2 | Long-Term Surveillance General Coupon Characterization |
| 10.3.6.3 | Frequency for Coupon Inspection |
| 10.5.1 | Fuel Pool Cooling and Cleanup System |
| 10.5.2 | Summary of Cooling System Analysis Results |
| 10.6.1 | Service Water System Data |
| 10.7.1 | High-Pressure Service Water System Equipment Data |
| 10.8.1 | Reactor Building Cooling Water System Equipment Data |
| 10.9.1 | Emergency Service Water System Equipment Data |
| 10.10.1 | Turbine Building Cooling Water System Equipment Data |
| 10.20.1 | Process Sampling System |
| 10.24.1 | Emergency Heat Sink Equipment Data |

SECTION 10.0 - AUXILIARY SYSTEMS

LIST OF FIGURES

| FIGURE | TITLE |
|----------|---|
| 10.3.1 | Rack Assembly |
| 10.3.2 | Spent Fuel Storage Cell Nominal Dimensions |
| 10.3.3 | Consolidated Fuel Canister Arrangement |
| 10.3.4 | Spent Fuel Pool Storage Rack Arrangement (Unit 2) |
| 10.3.5 | Spent Fuel Pool Storage Rack Arrangement (Unit 3) |
| 10.3.6 | Fuel Rack Plan View |
| 10.3.7 | Fuel Storage Rack Assembly Details |
| 10.4.1 | Plant Refueling Outage Diagram |
| 10.4.2 | Thermal Sleeve |
| 10.4.3 | Thermal Sleeve Installation Tool |
| 10.5.1 | Deleted |
| 10.5.2 | Deleted |
| 10.6.1 | Deleted |
| 10.7.1 | Deleted |
| 10.8.1 | Deleted |
| 10.10.1 | Deleted |
| 10.11.1 | Deleted |
| 10.12.1a | Deleted |
| 10.12.1b | Deleted |
| 10.13.1 | Deleted |
| 10.13.2 | Deleted |

LIST OF FIGURES (cont'd)

| FIGURE | TITLE | |
|---------|------------------------------|--|
| 10.14.1 | Deleted | |
| 10.14.2 | Deleted | |
| 10.15.1 | Deleted | |
| 10.15.2 | Deleted | |
| 10.16.1 | Deleted | |
| 10.16.2 | Deleted | |
| 10.17.1 | Deleted | |
| 10.17.1 | Deleted | |
| 10.23.1 | Deleted | |
| 10.24.1 | Deleted | |
| 10.24.2 | Deleted | |
| 10.24.3 | Deleted | |
| 10.24.4 | Emergency Heat Sink Facility | |