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(the southern electric system)

NED-83-302

May 20, 1983

Director of Nuclear Reactor Regulation
Attention: Mr. John F. Stolz, Chief
Operating Reactors Branch No. 4
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

NRC DOCKETS 50-321, 50-366
OPERATING LICENSES DPR-57, NPF-5
EDWIN I. HATCH NUCLEAR PLANT UNITS 1, 2
RESPONSE TO THE I&E BULLETIN 79-01B
SAFETY EVALUATION REPORT AND THE EQUIPMENT
QUALIFICATION RULE

Gentlemen:

By letter dated March 31, 1983, the NRC transmitted to Georgia Power Company (GPC) its Safety Evaluation Reports (SERs) and Technical Evaluation Reports (TERs) for environmental qualification of safety-related electrical equipment at Plant Hatch Units 1 and 2. That letter requested GPC to provide a response by May 20, 1983, addressing the final plans for replacement or qualification of all TER category I.B, II.A, II.B, and IV equipment items at Plant Hatch. In addition, that letter reaffirmed the requirement in 10 CFR 50.49(g) for a response by May 20, 1983, providing GPC's commitments for completion of the electrical equipment qualification program.

The enclosed volumes (one for each Plant Hatch unit) contain the GPC responses to these requests. Each volume contains lists of all electrical equipment important to safety categorized according to qualification status. In addition, clarifications and information for items in TER category II.C are provided, since this information was not included as part of GPC's thirty-day SER/TER response (dated May 6, 1983).

The qualification plan detailed in this response meets the 10 CFR 50.49(g) deadlines (second refueling outage after March 31, 1982, and not later than March 31, 1985) for final qualification of equipment within the I&E Bulletin 79-01B scope, barring any unforeseen implementation problems. Therefore, GPC has no plans for future submittals to the NRC regarding

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Director of Nuclear Reactor Regulation
Attention: Mr. John F. Stolz, Chief
Operating Reactors Branch No. 4
May 20, 1983
Page Two

electrical equipment qualification. However, GPC will inform the NRC of any major deviation from the present Plant Hatch program schedule which could potentially result in a failure to meet the required deadlines.

Very truly yours,

L. T. Gucwa

L. T. Gucwa

CBS/mb

xc: H. C. Nix, Jr.
J. P. O'Reilly
Senior Resident Inspector

GEORGIA POWER COMPANY
EDWIN I. HATCH NUCLEAR PLANT - UNIT 1

DOCKET: 50-321

ENVIRONMENTAL QUALIFICATION OF CLASS 1E EQUIPMENT
MAY 20, 1983 RESPONSE TO NRC SAFETY EVALUATION REPORT
AND RULE 10CFR50.49

REVISION 0, MAY 20, 1983

GEORGIA POWER COMPANY
EDWIN I. HATCH NUCLEAR PLANT - UNIT 1

DOCKET: 50-321

MAY 20, 1983 RESPONSE TO NRC SAFETY EVALUATION REPORT
AND RULE 10CFR50.49

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SECTION A

INTRODUCTION

SCOPE

This submittal is provided by Georgia Power Company as the May 20, 1983 Response to the Nuclear Regulatory Commission (NRC) Safety Evaluation Report (SER) for Environmental Qualification of Safety Related Electrical Equipment (I.E. Bulletin 79-01B) and the Rulemaking 10 CFR 50.49 for Edwin I. Hatch Nuclear Plant - Unit 1.

BACKGROUND

On October 31, 1980, Georgia Power Company submitted to the NRC an Environmental Qualification submittal in response to I. E. Bulletin 79-01B for Edwin I. Hatch Nuclear Plant - Unit 1.

On February 1, 1981, Georgia Power Company submitted revision 1 of the Environmental Qualification submittal in response to I. E. Bulletin 79-01B. This revision included a response to Supplement B of the bulletin regarding TMI Action Plan Equipment and Equipment required to achieve to I. E. Bulletin 79-01B.

On February 17, 1981, Georgia Power Company submitted revision 2 of the Environmental Qualification submittal in response to I. E. Bulletin 79-01B.

Based on review of Georgia Power Company's submittals conducted by Franklin Research Center (FRC), the NRC issued a Safety Evaluation Report (SER) on June 16, 1981.

Georgia Power Company provided a response to the SER as part of revision 3 of the Environmental Qualification submittal to I. E. Bulletin 79-01B issued on September 14, 1981.

On February 10, 1982, Georgia Power Company provided the NRC with additional qualification information. The NRC requested this information in order for FRC to complete the review of the Environmental Qualification submittal provided by Georgia Power Company.

The Safety Evaluation Report (SER) together with a Technical Evaluation Report (TER), was transmitted to Georgia Power Company by letter, dated March 31, 1983, from Mr. John F. Stolz, Chief Operating Reactors Branch No. 4, Division of Licensing to Mr. J. T. Beckham, Jr., Vice President Nuclear-Generation Georgia Power Company.

On May 6, 1983, Georgia Power Company submitted the required Thirty (30) Day Response to the NRC Safety Evaluation Report.

SUBMITTAL

This submittal is comprised of four (4) major sections; Section A - Introduction, Section B - Environmentally Qualified Equipment List, Section C - Equipment Requiring Qualification Clarifications, and Section D - Open Item Equipment List.

Section B of this submittal provides a list of safety related equipment which Georgia Power Company considers environmentally qualified.

Section C of this submittal provides clarifications and additional information required to address the NRC discrepancies listed for equipment in NRC Qualification Category II.c. Clarifications for equipment in NRC Qualification Categories I.b, II.a, and II.b were provided in the Thirty (30) Day Response to the NRC Safety Evaluation Report.

Section D of this submittal provides a list of safety related equipment which Georgia Power Company considers to have open items concerning Environmental Qualification. A Corrective Action is provided for each equipment item included in this list.

Justifications for Continued Operation for the Equipment having open items concerning qualification were submitted in the Thirty (30) Day Response to the Safety Evaluation Report or were included in previous I. E. Bulletin 79-01B submittals and reaffirmed in the Thirty (30) Day Response.

DISCUSSIONS CONCERNING RULEMAKING 10 CFR 50.49

Georgia Power Company's previous I.E. Bulletin 79-01B submittals have been reviewed against the requirements of paragraphs (a) and (b) of 10 CFR 50.49 and it is concluded that Georgia Power Company's program for Qualifying Electrical Equipment includes all harsh environment equipment (non-safety related as well as safety related equipment) that is relied upon to remain functional during and following a High Energy Line Break (HELB) or Loss of Coolant Accident (LOCA).

A systematic review of the control and power circuit for each component which is associated with equipment covered in I.E. Bulletin 79-01B was completed. Each circuit was reviewed to assure that the failure of any component within the circuit, which is located in a harsh environment, could not prevent the I.E. Bulletin 79-01B component from serving its safety related function.

Post-accident monitoring Equipment was included in Georgia Power Company's I.E. Bulletin 79-01B submittals to the extent that it was identified using the methodology described above. Georgia Power Company is currently negotiating a schedule with the NRC staff for responding to Supplement 1 to NUREG-0737 (Reference Generic Letter 82-33). A portion of the response to the supplement will compare Hatch Nuclear Plant - Unit 1 with the "requirements" of Regulatory Guide 1.97, Revision 2 and will justify any exceptions to the Regulatory Guide which are taken. In those cases where deviations cannot be justified, the Regulatory Guide "requirements" will be met. If the instrument is located in a harsh environment and installed prior to May 23, 1980, qualification of the instrument will be evaluated against the DOR Guidelines. If the instrument was installed after May 23, 1980, qualification will be evaluated against NUREG-0588, Category I or the 10CFR50.48 rule as applicable.

SECTION B

ENVIRONMENTALLY QUALIFIED EQUIPMENT LIST

INTRODUCTION

This section provides, per the requirements of 10CFR 50.49, Paragraph (g), a list of electrical equipment important to safety, which Georgia Power Company considers environmentally qualified.

The environmentally qualified equipment is identified by the TER Equipment Item Number (if applicable) and associated Plant Identification Number, followed by the Equipment Location, Equipment Description and the Equipment Service.

TABLE B-1

ENVIRONMENTALLY QUALIFIED EQUIPMENT LIST

TER EQUIPMENT ITEM NO: 1

Plant ID: T48-MOV F013A,B

Motorized Valve Actuator Located in the Reactor Building, Elev. 130' 0"

Limatorque Model SMB, AC Service, Class H Insulation

Service: Nitrogen Makeup Isolation

TER EQUIPMENT ITEM NO: 4

Plant ID: E11-MOV F015A

Motorized Valve Actuator Located in the Pipe Penetration Room

Limatorque Model SB3, AC Service, Class H Insulation

Service: LPCI Discharge Isolation

TER EQUIPMENT ITEM NO: 5

Plant ID: E11-MOV F028A,B

Motorized Valve Actuator Located in the Torus Room

Limatorque Model SMB, AC Service, Class B Insulation

Service: Torus Spray Isolation

TER EQUIPMENT ITEM NO: 7

Plant ID: E11-MOV F023

Motorized Valve Actuator Located in the Reactor Building, Elev. 185' 0"

Limatorque Model SMB, DC Service, Class B Insulation

Service: Vessel Head Spray Header Isolation

TER EQUIPMENT ITEM NO: 8

Plant ID: B21-MOV F016

Motorized Valve Actuator Located in the Containment

Limatorque Model SMB, AC Service, Class H Insulation

Service: Main Steam Line Drain Isolation

TER EQUIPMENT ITEM NO: 9

Plant ID: E51-MOV F007

Motorized Valve Actuator Located in the Containment

Limatorque Model SMB, AC Service, Class H Insulation

Service: Steam Supply Isolation

TER EQUIPMENT ITEM NO: 11

Plant ID: E21-MOV F001A,B

Motorized Valve Actuator Located in the Northeast and Southeast Corner Rooms

Limatorque Model SMB, AC Service, Class B Insulation

Service: Core Spray Pump Suction Isolation

TER EQUIPMENT ITEM NO: 12

Plant ID: E11-MOV F017A

Motorized Valve Actuator Located in the Pipe Penetration Room
Limatorque Model SMB, AC Service, Class B Insulation
Service: Containment Spray Discharge Isolation

TER EQUIPMENT ITEM NO: 12

Plant ID: E11-MOV F017B

Motorized Valve Actuator Located in the Pipe Penetration Room
Limatorque Model SMB, AC Service, Class H Insulation
Service: Containment Spray Discharge Isolation

TER EQUIPMENT ITEM NO: 14

Plant ID: E41-MOV F002

Motorized Valve Actuator Located in the Containment
Limatorque Model SMB, AC Service, Class H Insulation
Service: Steam Supply Isolation

TER EQUIPMENT ITEM NO: 17

Plant ID: E41-MOV F004

Motorized Valve Actuator Located in the High Pressure Coolant Injection Room
Limatorque Model SMB, DC Service, Class B Insulation
Service: Condensate Storage Tank to Pump Suction Isolation

TER EQUIPMENT ITEM NO: 17

Plant ID: E41-MOV F042

Motorized Valve Actuator Located in the High Pressure Coolant Injection Room
Limatorque Model SMB, DC Service, Class B Insulation
Service: HPCI Pump Suction Isolation from Torus

TER EQUIPMENT ITEM NO: 18

Plant ID: P41-MOV F050

Motorized Valve Actuator Located in the Torus Room
Limatorque Model SMB, AC Service, Class H Insulation
Service: Service Water Isolation to Drywell Coolers

TER EQUIPMENT ITEM NO: 18

Plant ID: P41-MOV F049

Motorized Valve Actuator Located in the Torus Room
Limatorque Model SMB, AC Service, Class H Insulation
Service: Service Water Isolation to Drywell Coolers

TER EQUIPMENT ITEM NO: 18

Plant ID: E11-MOV F119A,B

Motorized Valve Actuator Located in the Torus Room
Limatorque Model SMB, AC Service
Service: Residual Heat Removal Heat Exchanger Bypass

TER EQUIPMENT ITEM NO: 19

Plant ID: E11-MOV F016A,B

Motorized Valve Actuator Located in the Pipe Penetration Room
Limatorque Model SMB, AC Service, Class B Insulation
Service: Containment Spray Discharge Isolation

TER EQUIPMENT ITEM NO: 20

Plant ID: E11-MOV F049

Motorized Valve Actuator Located in the Torus Room
Limitorque Model SMB, DC Service, Class B Insulation
Service: Residual Heat Removal Discharge to Radwaste Isolation

TER EQUIPMENT ITEM NO: 20

Plant ID: E51-MOV F013

Motorized Valve Actuator Located in the Torus Room
Limitorque Model SMB, DC Service, Class B Insulation
Service: Reactor Core Isolation Cooling Pump Discharge Isolation

TER EQUIPMENT ITEM NO: 22

Plant ID: E41-MOV F059

Motorized Valve Actuator Located in the High Pressure Coolant Injection Room
Limitorque Model SMB, DC Service, Class H Insulation
Service: HPCI Pump Discharge Isolation to Barometric Condenser

TER EQUIPMENT ITEM NO: 22

Plant ID: E21-MOV F015A,B

Motorized Valve Actuator Located in the Northeast and Southeast Corner Rooms
Limitorque Model SMB, AC Service, Class B Insulation
Service: Test Bypass Isolation

TER EQUIPMENT ITEM NO: 22

Plant ID: E21-MOV F031A,B

Motorized Valve Actuator Located in the Northeast and Southeast Corner Rooms
Limitorque Model SMB, AC Service, Class B Insulation
Service: Core Spray Pump Minimum Flow Bypass Isolation

TER EQUIPMENT ITEM NO: 23

Plant ID: E11-MOV F027A,B

Motorized Valve Actuator Located in the Torus Room
Limitorque Model SMB, AC Service, Class B Insulation
Service: Torus Spray Isolation

TER EQUIPMENT ITEM NO: 23

Plant ID: E11-MOV F024A,B

Motorized Valve Actuator Located in the Torus Room
Limitorque Model SMB, AC Service, Class B Insulation
Service: Residual Heat Removal Test Line Isolation

TER EQUIPMENT ITEM NO: 23

Plant ID: E11-MOV F040

Motorized Valve Actuator Located in the Torus Room
Limitorque Model SMB, AC Service, Class B Insulation
Service: Residual Heat Removal Discharge to Radwaste Isolation

TER EQUIPMENT ITEM NO: 23

Plant ID: E11-MOV F073A,B

Motorized Valve Actuator Located in the Torus Room
Limitorque Model SMB, AC Service, Class B Insulation
Service: Residual Heat Removal Service Water Pump Discharge Isolation

TER EQUIPMENT ITEM NO: 23

Plant ID: Ell-MOV F075A,B

Motorized Valve Actuator Located in the Torus Room

Limatorque Model SMB, AC Service, Class B Insulation

Service: Residual Heat Removal Service Water Pump Discharge Isolation

TER EQUIPMENT ITEM NO: 23

Plant ID: Ell-MOV F091A,B

Motorized Valve Actuator Located in the Torus Room

Limatorque Model SMB, AC Service, Class B Insulation

Service: Residual Heat Removal Discharge to Residual Heat Removal Hx Isolation

TER EQUIPMENT ITEM NO: 23

Plant ID: Ell-MOV F0140A,B

Motorized Valve Actuator Located in the Torus Room

Limatorque Model SMB, AC Service, Class B Insulation

Service: HPCI Discharge to Residual Heat Removal Hx Isolation

TER EQUIPMENT ITEM NO: 23

Plant ID: E41-MOV F111

Motorized Valve Actuator Located in the Torus Room

Limatorque Model SMB, AC Service, Class B Insulation

Service: Vacuum Breaker Isolation

TER EQUIPMENT ITEM NO: 23

Plant ID: E41-MOV F104

Motorized Valve Actuator Located in the Torus Room

Limatorque Model SMB, AC Service, Class B Insulation

Service: Vacuum Breaker Isolation

TER EQUIPMENT ITEM NO: 23

Plant ID: E51-MOV F105

Motorized Valve Actuator Located in the Torus Room

Limatorque Model SMB, AC Service, Class B Insulation

Service: Vacuum Relief Isolation

TER EQUIPMENT ITEM NO: 23

Plant ID: E51-MOV F104

Motorized Valve Actuator Located in the Torus Room

Limatorque Model SMB, AC Service, Class B Insulation

Service: Vacuum Relief Isolation

TER EQUIPMENT ITEM NO: 24

Plant ID: Ell-MOV F007A,B

Motorized Valve Actuator Located in the Northeast and Southeast Corner Rooms

Limatorque Model SMB, AC Service, Class B Insulation

Service: RHR Pump Minimum Flow Bypass Isolation

TER EQUIPMENT ITEM NO: 24

Plant ID: Ell-MOV F006A,B,C,D

Motorized Valve Actuator Located in the Northeast and Southeast Corner Rooms

Limatorque Model SMB, AC Service, Class B Insulation

Service: Residual Heat Removal Pump Suction Isolation

TER EQUIPMENT ITEM NO: 24

Plant ID: Ell-MOV F004A,B,C,D

Motorized Valve Actuator Located in the Northeast and Southeast Corner Rooms
Limitorque Model SMB, AC Service, Class B Insulation

Service: Residual Heat Removal Pump Suction Isolation

TER EQUIPMENT ITEM NO: 24

Plant ID: Ell-MOV F003A,B

Motorized Valve Actuator Located in the Northeast and Southeast Corner Rooms
Limitorque Model SMB, AC Service, Class B Insulation

Service: Hx Discharge Isolation

TER EQUIPMENT ITEM NO: 24

Plant ID: Ell-MOV F011A,B

Motorized Valve Actuator Located in the Northeast and Southeast Corner Rooms
Limitorque Model SMB, AC Service, Class B Insulation

Service: Residual Heat Removal Hx Drain to Torus Isolation

TER EQUIPMENT ITEM NO: 24

Plant ID: Ell-MOV F015B

Motorized Valve Actuator Located in the Pipe Penetration Room
Limitorque Model SB3, AC Service, Class B Insulation

Service: Low Pressure Coolant Injection Discharge Isolation

TER EQUIPMENT ITEM NO: 24

Plant ID: Ell-MOV F026A,B

Motorized Valve Actuator Located in the Northeast and Southeast Corner Rooms
Limitorque Model SMB, AC Service, Class B Insulation

Service: Residual Heat Removal Hx to RCIC Isolation

TER EQUIPMENT ITEM NO: 24

Plant ID: Ell-MOV F048A,B

Motorized Valve Actuator Located in the Northeast and Southeast Corner Rooms
Limitorque Model SMB, AC Service, Class B Insulation

Service: Residual Heat Removal Hx to Bypass Isolation

TER EQUIPMENT ITEM NO: 24

Plant ID: Ell-MOV F047A,B

Motorized Valve Actuator Located in the Northeast and Southeast Corner Rooms
Limitorque Model SMB, AC Service, Class B Insulation

Service: Residual Heat Removal Hx Inlet Isolation

TER EQUIPMENT ITEM NO: 24

Plant ID: Ell-MOV F068A,B

Motorized Valve Actuator Located in the Northeast and Southeast Corner Rooms
Limitorque Model SMB, AC Service, Class B Insulation

Service: Residual Heat Removal Service Water Flow Control

TER EQUIPMENT ITEM NO: 24

Plant ID: E11-MOV F103A,B

Motorized Valve Actuator Located in the Northeast and Southeast Corner Rooms
Limatorque Model SMB, AC Service, Class H Insulation

Service: Residual Heat Removal Hx Inlet Isolation

TER EQUIPMENT ITEM NO: 25

Plant ID: P70-AOV F004

Solenoid Valve Located in the Reactor Building, Elev. 130' 0"

ASCO Model NP206-381-3F

Service: Drywell Pneumatic Isolation

TER EQUIPMENT ITEM NO: 25

Plant ID: P70-AOV F005

Solenoid Valve Located in the Reactor Building, Elev. 130' 0"

ASCO Model NP206-380-3F

Service: Drywell Pneumatic Isolation

TER EQUIPMENT ITEM NO: 26

Plant ID: E11-AOV F122A,B

Solenoid Valve Located in the Containment

ASCO Model NP206-832-3VF

Service: Testable Check By-pass

TER EQUIPMENT ITEM NO: 27

Plant ID: E11-AOV F051A,B

Solenoid Valve Located in the Torus Room

ASCO Model NP206-380-3F

Service: HPCI Discharge to RHR Hx Isolation

TER EQUIPMENT ITEM NO: 28

Plant ID: P33-AOV F003

Solenoid Valve Located in the Reactor Building, Elev 158' 0"

ASCO Model NP206-381-5F

Service: H₂ and O₂ Isolation

TER EQUIPMENT ITEM NO: 28

Plant ID: B31-AOV F020

Solenoid Valve Located in the Reactor Building, Elev 158' 0"

ASCO Model NP206-380-3F

Service: Reactor Water Sample Isolation

TER EQUIPMENT ITEM NO: 28

Plant ID: P33-AOV F015

Solenoid Valve Located in the Torus Room

ASCO Model NP206-380-5F

Service: H₂ and O₂ Torus Isolation

TER EQUIPMENT ITEM NO: 28

Plant ID: P33-AOV F014

Solenoid Valve Located in the Torus Room

ASCO Model NP206-380-5F

Service: H₂ and O₂ Drywell Isolation

TER EQUIPMENT ITEM NO: 28

Plant ID: P33-AOV F012

Solenoid Valve Located in the Torus Room

ASCO Model NP206-380-5F

Service: H₂ and O₂ Return to Drywell Isolation

TER EQUIPMENT ITEM NO: 28

Plant ID: P33-AOV F011

Solenoid Valve Located in the Reactor Building, Elev. 158' 0"

ASCO Model NP206-380-5F

Service: H₂ and O₂ Drywell Isolation

TER EQUIPMENT ITEM NO: 28

Plant ID: P33-AOV F007

Solenoid Valve Located in the Torus Room

ASCO Model NP206-381-5F

Service: H₂ and O₂ Torus Isolation

TER EQUIPMENT ITEM NO: 28

Plant ID: P33-AOV F006

Solenoid Valve Located in the Torus Room

ASCO Model NP206-381-5F

Service: H₂ and O₂ Drywell Isolation

TER EQUIPMENT ITEM NO: 28

Plant ID: P33-AOV F004

Solenoid Valve Located in the Torus Room

ASCO Model NP206-381-5F

Service: H₂ and O₂ Return to Drywell Isolation

TER EQUIPMENT ITEM NO: 28

Plant ID: P70-AOV F003

Solenoid Valve Located in the Reactor Building, Elev. 130' 0"

ASCO Model NP206-380-3F

Service: Drywell Pneumatic Isolation

TER EQUIPMENT ITEM NO: 28

Plant ID: P70-AOV F002

Solenoid Valve Located in the Torus Room

ASCO Model NP206-380-3F

Service: Drywell Pneumatic Isolation

TER EQUIPMENT ITEM NO: 29

Plant ID: P41-AOV F039A,B

Solenoid Valve Located in the Southeast Corner Room

ASCO Model NP206-380-3FMO

Service: Residual Heat Removal/Core Spray Pump Room Cooler Isolation

TER EQUIPMENT ITEM NO: 29

Plant ID: P41-AOV F037A,B,C,D

Solenoid Valve Located in the Northeast and Southeast Corner Rooms

ASCO Model NP206-380-3F

Service: Residual Heat Removal Pump Room Cooler Isolation

TER EQUIPMENT ITEM NO: 29

Plant ID: P41-AOV F036A,B

Solenoid Valve Located in the Northeast Corner Room

ASCO Model NP206-380-3F

Service: Residual Heat Removal/Core Spray Pump Room Cooler Isolation

TER EQUIPMENT ITEM NO: 29

Plant ID: P41-AOV F035A,B

Solenoid Valve Located in the HPCI Room

ASCO Model NP206-380-3F

Service: High Pressure Coolant Injection Room Cooler Isolation

TER EQUIPMENT ITEM NO: 30

Plant ID: T48-AOV F332A,B

Solenoid Valve Located in the Torus Room

ASCO Model NP206-380-6RF

Service: Torus Bypass Isolation

TER EQUIPMENT ITEM NO: 30

Plant ID: T48-AOV F113

Solenoid Valve Located in the Torus Room

ASCO Model NP206-380-3F

Service: Drywell Nitrogen Makeup Isolation

TER EQUIPMENT ITEM NO: 30

Plant ID: T48-AOV F114

Solenoid Valve Located in the Torus Room

ASCO Model NP206-380-3F

Service: Drywell Nitrogen Makeup Isolation

TER EQUIPMENT ITEM NO: 30

Plant ID: T48-AOV F115

Solenoid Valve Located in the Torus Room

ASCO Model NP206-380-3F

Service: Torus Nitrogen Makeup Isolation

TER EQUIPMENT ITEM NO: 30

Plant ID: T48-AOV F116

Solenoid Valve Located in the Torus Room

ASCO Model NP206-380-3F

Service: Torus Nitrogen Makeup Isolation

TER EQUIPMENT ITEM NO: 30

Plant ID: T48-AOV F321

Solenoid Valve Located in the Torus Room

ASCO Model NP206-380-3F

Service: Drywell Nitrogen Makeup Isolation

TER EQUIPMENT ITEM NO: 30

Plant ID: T48-AOV F322

Solenoid Valve Located in the Torus Room

ASCO Model NP206-380-3F

Service: Drywell Nitrogen Makeup Isolation

TER EQUIPMENT ITEM NO: 30

Plant ID: T48-AOV F325

Solenoid Valve Located in the Torus Room

ASCO Model NP206-380-3F

Service: Torus Nitrogen Makeup Isolation

TER EQUIPMENT ITEM NO: 30

Plant ID: T48-AOV F327

Solenoid Valve Located in the Torus Room

ASCO Model NP206-380-3F

Service: Torus Nitrogen Makeup Isolation

TER EQUIPMENT ITEM NO: 30

Plant ID: T48-AOV F333A,B

Solenoid Valve Located in the Torus Room

ASCO Model NP206-380-6RF

Service: Torus Bypass Isolation

TER EQUIPMENT ITEM NO: 31

Plant ID: C11-SV F009

Solenoid Valve Located in the Reactor Building, Elev. 130' 0"

ASCO Model NP8323A22E

Service: Scram Volume Drain

TER EQUIPMENT ITEM NO: 32,40

Plant ID: T41-AOV F023A,B

Solenoid Valve Located in the Reactor Building, Elev. 164' 0"

ASCO Model NP8321A2E

Service: Refueling Floor Exhaust Fan Discharge Isolation

TER EQUIPMENT ITEM NO: 32

Plant ID: T41-AOV F032A,B

Solenoid Valve Located in the Reactor Building, Elev. 164' 0"

ASCO Model NP206-380-5F

Service: Reactor Building, Vent Discharge to Standby Gas Treatment

TER EQUIPMENT ITEM NO: 33

Plant ID: P33-SV F005A,B,C,D

Solenoid Valve Located in the Reactor Building, Elev. 158' 0"

Target Rock Model 73K003

Service: Fission Products Monitoring Isolation

TER EQUIPMENT ITEM NO: 34

Plant ID: T48-SV F118A,B

Solenoid Valve Located in the Reactor Building, Elev. 130' 0"

Target Rock Model 73K003

Service: Drywell/Torus Nitrogen Makeup Isolation

TER EQUIPMENT ITEM NO: 35

Plant ID: E41-SV F053

Solenoid Valve Located in the High Pressure Coolant Injection Room

Target Rock Model 75F008

Service: Condensate Drain Pot to Barometric Condenser Isolation

TER EQUIPMENT ITEM NO: 36

Plant ID: E11-SV F074A,B

Solenoid Valve Located in the Torus Room

Target Rock Model 73K004

Service: RHR Service Water to Drywell Isolation

TER EQUIPMENT ITEM NO: 37

Plant ID: T48-SV F338

Solenoid Valve Located in the Torus Room

Target Rock Model 73K002

Service: Torus Bypass Isolation

TER EQUIPMENT ITEM NO: 37

Plant ID: T48-SV F339

Solenoid Valve Located in the Torus Room

Target Rock Model 73K002

Service: Torus Bypass Isolation

TER EQUIPMENT ITEM NO: 38

Plant ID: T48-SV F340

Solenoid Valve Located in the Reactor Building, Elev. 185' 0"

Target Rock Model 73K002

Service: Torus Bypass Isolation

TER EQUIPMENT ITEM NO: 38

Plant ID: T48-SV F341

Solenoid Valve Located in the Reactor Building, Elev. 185' 0"

Target Rock Model 73K002

Service: Torus Bypass Isolation

TER EQUIPMENT ITEM NO: 39

Plant ID: B21-AOV F013A,C,E,F,J,K,L

Solenoid Valve Located in the Containment

Target Rock Model 1/2 SMS-A-01-1

Service: ADS

TER EQUIPMENT ITEM NO: 40

Plant ID: G11-AOV F003

Solenoid Valve Located in the Torus Room

ASCO Model NP8321A2E

Service: Drywell Floor Drain Sump Discharge Isolation

TER EQUIPMENT ITEM NO: 40

Plant ID: T41-AOV F031A,B

Solenoid Valve Located in the Reactor Building, Elev. 164' 0"

ASCO Model NP8321A2E

Service: Reactor Building Exhaust Fan Discharge Isolation

TER EQUIPMENT ITEM NO: 40

Plant ID: T41-AOV F044A,B

Solenoid Valve Located in the Reactor Building, Elev. 164' 0"

ASCO Model NP8321A2E

Service: Reactor Building Exhaust Fan Discharge Isolation

TER EQUIPMENT ITEM NO: 40

Plant ID: E21-AOV F019A,B

Solenoid Valve Located in the Torus Room

ASCO Model NP8321A6E

Service: Torus to Core Spray Pump Suction Isolation

TER EQUIPMENT ITEM NO: 40

Plant ID: E51-AOV F003

Solenoid Valve Located in the Torus Room

ASCO Model NP8321A2E

Service: Torus Discharge Isolation to RCIC Pump

TER EQUIPMENT ITEM NO: 40

Plant ID: E41-AOV F051

Solenoid Valve Located in the Torus Room

ASCO Model NP8321A2E

Service: Torus Discharge Isolation to HPCI Pump

TER EQUIPMENT ITEM NO: 41

Plant ID: T46-AOV F001A,B

Solenoid Valve Located in the Reactor Building, Elev. 164' 0"

ASCO Model NP831656F

Service: Filter Suction Isolation

TER EQUIPMENT ITEM NO: 41

Plant ID: T46-AOV F002A,B

Solenoid Valve Located in the Reactor Building, Elev. 164' 0"

ASCO Model NP831656F

Service: Filter Discharge Isolation

TER EQUIPMENT ITEM NO: 42

Plant ID: G51-AOV F011

Solenoid Valve Located in the Torus Room

ASCO Model NP831654E

Service: Torus Water Cleanup Isolation

TER EQUIPMENT ITEM NO: 42

Plant ID: G51-AOV F012

Solenoid Valve Located in the Torus Room

ASCO Model NP831654E

Service: Torus Water Cleanup Isolation

TER EQUIPMENT ITEM NO: 43

Plant ID: T48-AOV F326

Solenoid Valve Located in the Torus Room

ASCO Model NP8316A74F

Service: Torus Discharge Isolation

TER EQUIPMENT ITEM NO: 43

Plant ID: T48-AOV F324

Solenoid Valve Located in the Torus Room

ASCO Model NP8316A74E

Service: Purge Isolation to Torus

TER EQUIPMENT ITEM NO: 43

Plant ID: T48-AOV F318

Solenoid Valve Located in the Torus Room

ASCO Model NP8316A74E

Service: Torus Discharge Isolation

TER EQUIPMENT ITEM NO: 43

Plant ID: T48-AOV F309

Solenoid Valve Located in the Torus Room

ASCO Model NP8316A74E

Service: Purge Isolation to Torus

TER EQUIPMENT ITEM NO: 43

Plant ID: T48-AOV F308

Solenoid Valve Located in the Torus Room

ASCO Model NP8316A74E

Service: Purge Isolation to Drywell

TER EQUIPMENT ITEM NO: 43

Plant ID: T48-AOV F307

Solenoid Valve Located in the Torus Room

ASCO Model NP8316A74E

Service: Purge Isolation to Drywell

TER EQUIPMENT ITEM NO: 43

Plant ID: E11-AOV F065A,B,C,D

Solenoid Valve Located in the Torus Room

ASCO Model NP831664E

Service: RHR Pump Suction Isolation

TER EQUIPMENT ITEM NO: 44

Plant ID: G11-AOV F020

Solenoid Valve Located in the Torus Room

ASCO Model NP8320A184E

Service: Drywell Equipment Drain Sump Discharge Isolation

TER EQUIPMENT ITEM NO: 44

Plant ID: G11-AOV F019

Solenoid Valve Located in the Torus Room

ASCO Model NP8320A184E

Service: Drywell Equipment Drain Sump Discharge Isolation

TER EQUIPMENT ITEM NO: 44

Plant ID: G11-AOV F004

Solenoid Valve Located in the Torus Room

ASCO Model NP8320A184E

Service: Drywell Floor Drain Sump Discharge Isolation

TER EQUIPMENT ITEM NO: 45

Plant ID: P41-AOV F066

Solenoid Valve Located in the Torus Room

ASCO Model NP8344A73E

Service: Plant Service Water Isolation to Reactor Building

TER EQUIPMENT ITEM NO: 45

Plant ID: P41-AOV F067

Solenoid Valve Located in the Torus Room

ASCO Model NP8344A73E

Service: Plant Service Water Isolation to Reactor Building

TER EQUIPMENT ITEM NO: 46

Plant ID: C11-SV D117

Solenoid Valve Located in the Reactor Building, Elev. 130' 0"

ASCO Model HVA-90-405

Service: Scram

TER EQUIPMENT ITEM NO: 46

Plant ID: C11-SV D118

Solenoid Valve Located in the Reactor Building, Elev. 130' 0"

ASCO Model HVA-90-405

Service: Scram

TER EQUIPMENT ITEM NO: 47

Plant ID: B31-AOV F019

Solenoid Valve Located in the Containment

ASCO Model NP8320A187E

Service: Reactor Water Sample Isolation

TER EQUIPMENT ITEM NO: 47

Plant ID: E11-AOV F053A,B

Solenoid Valves Located in the Northeast and Southeast Corner Rooms

ASCO Model NP206-380-3F

Service: RHR Hx Condenser Discharge Isolation

TER EQUIPMENT ITEM NO: 47

Plant ID: E41-AOV F029

Solenoid Valve Located in the HPCI Room

ASCO Model NP206-381-3F

Service: Steam Pot Drain Isolation

TER EQUIPMENT ITEM NO: 47

Plant ID: P33-AOV F002

Solenoid Valve Located in the Reactor Building, Elev. 185' 0"

ASCO Model NP206-381-3F

Service: H₂ and O₂ Drywell Isolation

TER EQUIPMENT ITEM NO: 47

Plant ID: P33-AOV F010

Solenoid Valve Located in the Reactor Building, Elev. 185' 0"

ASCO Model NP206-380-3F

Service: H₂ and O₂ Drywell Isolation

TER EQUIPMENT ITEM NO: 47

Plant ID: P41-AOV F040A,B

Solenoid Valves Located in the RCIC (SW) Corner Room

ASCO Model NP206-380-3F

Service: RCIC Room Cooler Isolation

TER EQUIPMENT ITEM NO: 47

Plant ID: T41-AOV F011B

Solenoid Valve Located in the Reactor Building, Elev. 185' 0"

ASCO Model NP8321A2E

Service: Reactor Building Supply Fan Discharge Isolation

TER EQUIPMENT ITEM NO: 47

Plant ID: T46-AOV F005

Solenoid Valve Located in the Reactor Building, Elev. 164' 0"

ASCO Model NP831656E

Service: System Discharge to Main Stack

TER EQUIPMENT ITEM NO: 47

Plant ID: T48-AOV F104

Solenoid Valve Located in the Reactor Building, Elev. 130' 0"

ASCO Model NP206-380-3F

Service: Drywell/Torus Nitrogen Makeup Isolation

TER EQUIPMENT ITEM NO: 47

Plant ID: T48-AOV F319

Solenoid Valve Located in the Reactor Building, Elev. 185' 0"

ASCO Model NP8316A74E

Service: Drywell Discharge Isolation

TER EQUIPMENT ITEM NO: 47

Plant ID: T48-AOV F320

Solenoid Valve Located in the Reactor Building, Elev. 185' 0"

ASCO Model NP8316A74E

Service: Drywell Discharge Isolation

TER EQUIPMENT ITEM NO: 47

Plant ID: T48-AOV F334A,B

Solenoid Valve Located in the Reactor Building, Elev. 185' 0"

ASCO Model NP8320A184EMS

Service: Drywell Bypass Isolation

TER EQUIPMENT ITEM NO: 47

Plant ID: T48-AOV F335A,B

Solenoid Valves Located in the Reactor Building, Elev. 185' 0"

ASCO Model NP8320A184EMS

Service: Drywell Bypass Isolation

TER EQUIPMENT ITEM NO: 47

Plant ID: E41-AOV F026

Solenoid Valve Located in the HPCI Room

ASCO Model NP206-381-3F

Service: Condenser Pump Discharge Drain Isolation

TER EQUIPMENT ITEM NO: 47

Plant ID: E41-AOV F028

Solenoid Valve Located in the HPCI Room

ASCO Model NP206-381-3F

Service: Steam Pot Drain Isolation

TER EQUIPMENT ITEM NO: 48

Plant ID: E41-SV F122

Solenoid Valve Located in the Torus Room

Valcor Model V5265295

Service: Sample Return Isolation to Torus

TER EQUIPMENT ITEM NO: 48

Plant ID: E41-SV F121

Solenoid Valve Located in the Torus Room

Valcor Model V5265295

Service: Sample Return Isolation to Torus

TER EQUIPMENT ITEM NO: 49

Plant ID: B21-AOV F028A,B,C,D
Solenoid Valves Located in the Pipe Chase
Automatic Valve Model 4988-15
Service: Main Steam Line Isolation

TER EQUIPMENT ITEM NO: 49

Plant ID: B21-AOV F022A,B,C,D
Solenoid Valves Located in the Containment
Automatic Valve Model 4988-15
Service: Main Steam Line Isolation

TER EQUIPMENT ITEM NO: 50

Plant ID: G51-AOV F021
Solenoid Valve Located in the Northeast Corner Room
ASCO Model NP206-380-3F
Service: Torus Water Makeup Isolation

TER EQUIPMENT ITEM NO: 50

Plant ID: G51-AOV F013
Solenoid Valve Located in the Northeast Corner Room
ASCO Model NP206-380-3F
Service: Torus Water Makeup Isolation

TER EQUIPMENT ITEM NO: 51

Plant ID: E21-AOV F006A,B
Solenoid Valve Located in the Containment
ASCO Model NP8344A73E
Service: Core Spray Pump Discharge Isolation

TER EQUIPMENT ITEM NO: 51

Plant ID: E21-AOV F037A,B
Solenoid Valve Located in the Containment
ASCO Model NP8344A73E
Service: Core Spray Pump Discharge Isolation

TER EQUIPMENT ITEM NO: 52

Plant ID: B21-SV F111
Solenoid Valve Located in the Reactor Building, Elev. 130' 0"
Valcor Model V5266040
Service: Sample Isolation from Jet Pump

TER EQUIPMENT ITEM NO: 52

Plant ID: B21-SV F112
Solenoid Valve Located in the Reactor Building, Elev. 130' 0"
Valcor Model V5266040
Service: Sample Isolation from Jet Pump

TER EQUIPMENT ITEM NO: 53

Plant ID: E21-AOV F037A

Limit Switches Located in the Containment

Namco Model EA180-31302

Service: E21-AOV F006A,B Bypass Valve

TER EQUIPMENT ITEM NO: 53

Plant ID: E21-AOV F037B

Limit Switches Located in the Containment

Namco Model EA180-31302

Service: E21-AOV F006A,B Bypass Valve

TER EQUIPMENT ITEM NO: 54

Plant ID: E11-AOV F122A,B

Limit Switches Located in the Containment

Namco Model EA180-31302

Service: Testable Check Bypass

TER EQUIPMENT ITEM NO: 55

Plant ID: B31-AOV F019

Limit Switches Located in the Containment

Namco Model EA180-31302

Service: Reactor Water Sample Isolation

TER EQUIPMENT ITEM NO: 56

Plant ID: E21-AOV F006A,B

Limit Switches Located in the Containment

Namco Model EA740-20001

Service: Core Spray Pump Discharge Isolation

TER EQUIPMENT ITEM NO: 57

Plant ID: B21-AOV F022A,B,C,D

Limit Switches Located in the Containment

Namco Model EA740-50100

Service: Main Steam Line Isolation

TER EQUIPMENT ITEM NO: 57

Plant ID: B21-AOV F028A,B,C,D

Limit Switches Located in the Pipe Chase

Namco Model EA740-50100

Service: Main Steam Line Isolation

TER EQUIPMENT ITEM NO: 58

Plant ID: G51-AOV F011

Limit Switches Located in the Torus Room

Namco Model EA180-31302

Service: Torus Water Cleanup Isolation

TER EQUIPMENT ITEM NO: 58

Plant ID: G51-AOV F012

Limit Switches Located in the Torus Room

Namco Model EA180-31302

Service: Torus Water Cleanup Isolation

TER EQUIPMENT ITEM NO: 59

Plant ID: P41-AOV F067

Limit Switches Located in the Torus Room

Namco Model EA180-31302 & EA180-32302

Service: Plant Service Water Isolation to Reactor Building

TER EQUIPMENT ITEM NO: 59

Plant ID: P41-AOV F066

Limit Switches Located in the Torus Room

Namco Model EA180-31302 & EA180-32302

Service: Plant Service Water Isolation to Reactor Building

TER EQUIPMENT ITEM NO: 60

Plant ID: T46-AOV F004A,B

Limit Switches Located in the Reactor Building, Elev. 164' 0"

Namco Model EA180-31302 & EA180-32302

Service: Filter Discharge Isolation

TER EQUIPMENT ITEM NO: 60

Plant ID: T46-AOV F005

Limit Switches Located in the Reactor Building, Elev. 164' 0"

Namco Model EA180-31302 & EA180-32302

Service: System Discharge to Main Stack

TER EQUIPMENT ITEM NO: 60

Plant ID: T46-AOV F003A,B

Limit Switches Located in the Reactor Building, Elev. 164' 0"

Namco Model EA180-31302 & EA180-32302

Service: Filter Discharge Isolation

TER EQUIPMENT ITEM NO: 60

Plant ID: T46-AOV F002A,B

Limit Switches Located in the Reactor Building, Elev. 164' 0"

Namco Model EA180-31302 & EA180-32302

Service: Filter Discharge Isolation

TER EQUIPMENT ITEM NO: 60

Plant ID: T46-AOV F001A,B

Limit Switches Located in the Reactor Building, Elev. 164' 0"

Namco Model EA180-31302 & EA180-32302

Service: Filter Suction Isolation

TER EQUIPMENT ITEM NO: 61

Plant ID: T41-AOV F044A,B

Limit Switches Located in the Reactor Building, Elev. 164' 0"

Namco Model EA180-31302 & EA180-32302

Service: Reactor Building, Exhaust Fan Discharge Isolation

TER EQUIPMENT ITEM NO: 61

Plant ID: T41-AOV F032A,B

Limit Switches Located in the Reactor Building, Elev. 164' 0"

Namco Model EA180-31302 & EA180-32302

Service: Reactor Building, Vent Discharge to Standby Gas Treatment

TER EQUIPMENT ITEM NO: 61

Plant ID: T41-AOV F031A,B

Limit Switches Located in the Reactor Building, Elev. 164' 0"

Namco Model EA180-31302 & EA180-32302

Service: Reactor Building, Exhaust Fan Discharge Isolation

TER EQUIPMENT ITEM NO: 61

Plant ID: T41-AOV F023A,B

Limit Switches Located in the Reactor Building, Elev. 164' 0"

Namco Model EA180-31302 & EA180-32302

Service: Refueling Floor Exhaust Fan Discharge Isolation

TER EQUIPMENT ITEM NO: 62

Plant ID: P33-AOV F002

Limit Switches Located in the Reactor Building, Elev. 185' 0"

Namco Model EA180-31302

Service: H₂ and O₂ Drywell Isolation

TER EQUIPMENT ITEM NO: 62

Plant ID: P33-AOV F010

Limit Switches Located in the Reactor Building, Elev. 185' 0"

Namco Model EA180-31302

Service: H₂ and O₂ Drywell Isolation

TER EQUIPMENT ITEM NO: 62

Plant ID: P70-AOV F002

Limit Switches Located in the Reactor Building, Elev. 130' 0"

Namco Model EA180-31302

Service: Drywell Pneumatic Isolation

TER EQUIPMENT ITEM NO: 62

Plant ID: P70-AOV F003

Limit Switches Located in the Reactor Building, Elev. 130' 0"

Namco Model EA180-31302

Service: Drywell Pneumatic Isolation

TER EQUIPMENT ITEM NO: 62

Plant ID: P70-AOV F004

Limit Switches Located in the Reactor Building, Elev. 130' 0"

Namco Model EA180-31302

Service: Drywell Pneumatic Isolation

TER EQUIPMENT ITEM NO: 62

Plant ID: P70-AOV F005

Limit Switches Located in the Reactor Building, Elev. 130' 0"

Namco Model EA180-31302

Service: Drywell Pneumatic Isolation

TER EQUIPMENT ITEM NO: 62

Plant ID: T48-AOV F104

Limit Switches Located in the Reactor Building, Elev. 130' 0"

Namco Model EA180-31302

Service: Drywell/Torus Nitrogen Makeup Isolation

TER EQUIPMENT ITEM NO: 63

Plant ID: G51-AOV F013

Limit Switches Located in the Northeast Corner Room

Namco Model EA180-31302

Service: Torus Water Makeup Isolation

TER EQUIPMENT ITEM NO: 63

Plant ID: G51-AOV F021

Limit Switches Located in the Northeast Corner Room

Namco Model EA180-31302

Service: Torus Water Makeup Isolation

TER EQUIPMENT ITEM NO: 64

Plant ID: E41-AOV F025

Limit Switches Located in the HPCI Room

Namco Model EA180-31302

Service: Condenser Pump Discharge Drain Isolation

TER EQUIPMENT ITEM NO: 64

Plant ID: E41-AOV F029

Limit Switches Located in the HPCI Room

Namco Model EA180-31302

Service: Steam Pot Drain Isolation

TER EQUIPMENT ITEM NO: 64

Plant ID: E41-AOV F028

Limit Switches Located in the HPCI Room

Namco Model EA180-31302

Service: Steam Pot Drain Isolation

TER EQUIPMENT ITEM NO: 64

Plant ID: E41-AOV F026

Limit Switches Located in the HPCI Room

Namco Model EA180-31302

Service: Condenser Pump Discharge Drain Isolation

TER EQUIPMENT ITEM NO: 65

Plant ID: B31-AOV F020

Limit Switches Located in the Reactor Building, Elev. 158' 0"

Namco Model EA180-31302

Service: Reactor Water Sample Isolation

TER EQUIPMENT ITEM NO: 65

Plant ID: P33-AOV F003

Limit Switches Located in the Reactor Building, Elev. 158' 0"

Namco Model EA180-31302

Service: H₂ and O₂ Drywell Isolation

TER EQUIPMENT ITEM NO: 65

Plant ID: P33-AOV F011

Limit Switches Located in the Reactor Building, Elev. 158' 0"

Namco Model EA180-31302

Service: H₂ and O₂ Drywell Isolation

TER EQUIPMENT ITEM NO: 66

Plant ID: G11-AOV F020

Limit Switches Located in the Torus Room

Namco Model EA180-31302

Service: Drywell Equipment Drain Sump Discharge Isolation

TER EQUIPMENT ITEM NO: 66

Plant ID: G11-AOV F019

Limit Switches Located in the Torus Room

Namco Model EA180-31302

Service: Drywell Equipment Drain Sump Discharge Isolation

TER EQUIPMENT ITEM NO: 66

Plant ID: G11-AOV F004

Limit Switches Located in the Torus Room

Namco Model EA180-31302

Service: Drywell Floor Drain Sump Discharge Isolation

TER EQUIPMENT ITEM NO: 66

Plant ID: G11-AOV F003

Limit Switches Located in the Torus Room

Namco Model EA180-31302

Service: Drywell Floor Drain Sump Discharge Isolation

TER EQUIPMENT ITEM NO: 67

Plant ID: T41-AOV F011B

Limit Switches Located in the Reactor Building, Elev. 185' 0"

Namco Model EA180-31302 & EA180-32302

Service: Reactor Building Supply Fan Discharge Isolation

TER EQUIPMENT ITEM NO: 67

Plant ID: T48-AOV F319

Limit Switches Located in the Reactor Building, Elev. 185' 0"

Namco Model EA180-31302 & EA180-32302

Service: Drywell Discharge Isolation

TER EQUIPMENT ITEM NO: 67

Plant ID: T48-AOV F320

Limit Switches Located in the Reactor Building, Elev. 185' 0"

Namco Model EA180-31302 & EA180-32302

Service: Drywell Discharge Isolation

TER EQUIPMENT ITEM NO: 67

Plant ID: T48-AOV F334A,B

Limit Switches Located in the Reactor Building, Elev. 185' 0"

Namco Model EA180-24302 & EA180-25302

Service: Drywell Bypass Isolation

TER EQUIPMENT ITEM NO: 67

Plant ID: T48-AOV F335A,B

Limit Switches Located in the Reactor Building, Elev. 185' 0"

Namco Model EA180-24302 & EA180-25302

Service: Drywell Bypass Isolation

TER EQUIPMENT ITEM NO: 68

Plant ID: T48-AOV F311

Limit Switches Located in the Torus Room

Namco Model EA180-31302 & EA180-32302

Service: Torus Pressure Equalization Isolation

TER EQUIPMENT ITEM NO: 68

Plant ID: E11-AOV F065A,B,C,D

Limit Switches Located in the Torus Room

Namco Model EA180-31302 & EA180-32302

Service: RHR Pump Suction Isolation

TER EQUIPMENT ITEM NO: 68

Plant ID: E41-AOV F051

Limit Switches Located in the Torus Room

Namco Model EA180-31302 & EA180-32302

Service: Torus Discharge Isolation to HPCI Pump

TER EQUIPMENT ITEM NO: 68

Plant ID: E51-AOV F003

Limit Switches Located in the Torus Room

Namco Model EA180-31302 & EA180-32302

Service: Torus Discharge Isolation to RCIC Pump

TER EQUIPMENT ITEM NO: 68

Plant ID: E21-AOV F019A,B

Limit Switches Located in the Torus Room

Namco Model EA180-31302 & EA180-32302

Service: Torus to Core Spray Pump Suction Isolation

TER EQUIPMENT ITEM NO: 68

Plant ID: T48-AOV F103

Limit Switches Located in the Torus Room

Namco Model EA180-31302 & EA180-32302

Service: Drywell/Torus Purge Isolation

TER EQUIPMENT ITEM NO: 68

Plant ID: T48-AOV F307

Limit Switches Located in the Torus Room

Namco Model EA180-31302 & EA180-32302

Service: Purge Isolation to Drywell

TER EQUIPMENT ITEM NO: 68

Plant ID: T48-AOV F308

Limit Switches Located in the Torus Room

Namco Model EA180-31302 & EA180-32302

Service: Purge Isolation to Drywell

TER EQUIPMENT ITEM NO: 68

Plant ID: T48-AOV F309

Limit Switches Located in the Torus Room

Namco Model EA180-31302 & EA180-32302

Service: Purge Isolation to Torus

TER EQUIPMENT ITEM NO: 68

Plant ID: T48-AOV F310

Limit Switches Located in the Torus Room

Namco Model EA180-31302 & EA180-32302

Service: Torus Pressure Equal Isolation

TER EQUIPMENT ITEM NO: 68

Plant ID: T48-AOV F318

Limit Switches Located in the Torus Room

Namco Model EA180-31302 & EA180-32302

Service: Torus Discharge Isolation

TER EQUIPMENT ITEM NO: 68

Plant ID: T48-AOV F324

Limit Switches Located in the Torus Room

Namco Model EA180-31302 & EA180-32302

Service: Purge Isolation to Torus

TER EQUIPMENT ITEM NO: 68

Plant ID: T48-AOV F326

Limit Switches Located in the Torus Room

Namco Model EA180-31302 & EA180-32302

Service: Torus Discharge Isolation

TER EQUIPMENT ITEM NO: 68

Plant ID: T48-AOV F332A,B

Limit Switches Located in the Torus Room

Namco Model EA180-24302 & EA180-25302

Service: Torus Bypass Isolation

TER EQUIPMENT ITEM NO: 68

Plant ID: T48-AOV F333A,B

Limit Switches Located in the Torus Room

Namco Model EA180-24302 & EA180-25302

Service: Torus Bypass Isolation

TER EQUIPMENT ITEM NO: 69

Plant ID: P33-AOV F007

Limit Switches Located in the Torus Room

Namco Model EA180-31302

Service: H₂ and O₂ Torus Isolation

TER EQUIPMENT ITEM NO: 69

Plant ID: P33-AOV F012

Limit Switches Located in the Torus Room

Namco Model EA180-31302

Service: H₂ and O₂ Return to Drywell Isolation

TER EQUIPMENT ITEM NO: 69

Plant ID: P33-AOV F014

Limit Switches Located in the Torus Room

Namco Model EA180-31302

Service: H₂ and O₂ Drywell Isolation

TER EQUIPMENT ITEM NO: 69

Plant ID: P33-AOV F004

Limit Switches Located in the Torus Room

Namco Model EA180-31302

Service: H₂ and O₂ Return to Drywell Isolation

TER EQUIPMENT ITEM NO: 69

Plant ID: P33-AOV F006

Limit Switches Located in the Torus Room

Namco Model EA180-31302

Service: H₂ and O₂ Drywell Isolation

TER EQUIPMENT ITEM NO: 69

Plant ID: P33-AOV F015

Limit Switches Located in the Torus Room

Namco Model EA180-31302

Service: H₂ and O₂ Torus Isolation

TER EQUIPMENT ITEM NO: 69

Plant ID: T48-AOV F113

Limit Switches Located in the Torus Room

Namco Model EA180-31302

Service: Drywell Nitrogen Makeup Isolation

TER EQUIPMENT ITEM NO: 69

Plant ID: T48-AOV F114

Limit Switches Located in the Torus Room

Namco Model EA180-31302

Service: Drywell Nitrogen Makeup Isolation

TER EQUIPMENT ITEM NO: 69

Plant ID: T48-AOV F115

Limit Switches Located in the Torus Room

Namco Model EA180-31302

Service: Torus Nitrogen Makeup Isolation

TER EQUIPMENT ITEM NO: 69

Plant ID: T48-AOV F116

Limit Switches Located in the Torus Room

Namco Model EA180-31302

Service: Torus Nitrogen Makeup Isolation

TER EQUIPMENT ITEM NO: 69

Plant ID: T48-AOV F321

Limit Switches Located in the Torus Room

Namco Model EA180-31302

Service: Drywell Nitrogen Makeup Isolation

TER EQUIPMENT ITEM NO: 69

Plant ID: T48-AOV F322

Limit Switches Located in the Torus Room

Namco Model EA180-31302

Service: Drywell Nitrogen Makeup Isolation

TER EQUIPMENT ITEM NO: 69

Plant ID: T48-AOV F325

Limit Switches Located in the Torus Room

Namco Model EA180-31302

Service: Torus Nitrogen Makeup Isolation

TER EQUIPMENT ITEM NO: 69

Plant ID: T48-AOV F327

Limit Switches Located in the Torus Room

Namco Model EA180-31302

Service: Torus Nitrogen Makeup Isolation

TER EQUIPMENT ITEM NO: 87

Plant ID: E11-PS N017A,B,C,D

Pressure Switches Located in the Northeast and Southeast Corner Rooms

Static-O-Ring Model 7924100

Service: RHR Service Water Valve F068A&B Permissive

TER EQUIPMENT ITEM NO: 88,89

Plant ID: B21-PS N301A,B,C,D,E,F,G,H,J,K,L

Pressure Switches Located in the Containment

Pressure Controls Inc, Model A17-1P

Service: SRV Monitoring

TER EQUIPMENT ITEM NOS: 91,93

Plant ID: Terminal Tape

Electrical Tape Located Inside the Drywell

Okonite Model T95

Service: Insulation of Termination & Splices

TER EQUIPMENT ITEM NOS: 92,90

Plant ID: Jacketing Tape

Electrical Tape Located Inside the Drywell

Okonite Model T35

Service: Protection of Termination & Splices

TER EQUIPMENT ITEM NO: 95

Plant ID: C82 Control Switch

Control Switch Located in the Reactor Building, Elev. 158' 0"

Electro Switch Model Series 20

Service: Control Switch

TER EQUIPMENT ITEM NO: 96

Plant ID: C82 Transfer Switch

Control Switch Located in the Reactor Building, Elev. 158' 0"

Electro Switch Model Series 40

Service: Transfer Switch

TER EQUIPMENT ITEM NO: 100

Plant ID: R11-S040

Transformer Located in the Reactor Building, Elev. 130' 0"

Sorgel Model Serial No. 101023-5

Service: MCC R24-S012

TER EQUIPMENT ITEM NO: 100

Plant ID: R11-S039

Transformer Located in the Reactor Building, Elev. 130' 0"

Sorgel Model Serial No. 101023-5

Service: MCC R24-S011

TER EQUIPMENT ITEM NO: 102

Plant ID: PWB Heat Shrink

Electrical Cable Splice Located Outside the Drywell

Raychem Model HVTIA20C

Service: #2/0 and #3/0 Awg Wire, 8KV

TER EQUIPMENT ITEM NOS: 103,104

Plant ID: PVT Heat Shrink

Electrical Cable Splice Located Inside/Outside the Drywell

Raychem Model WCSF0706N

Service: #18 to #10 Awg Wire, 600 Volt

TER EQUIPMENT ITEM NOS: 103,104

Plant ID: PWH Heat Shrink

Electrical Cable Splice Located Inside/Outside the Drywell

Raychem Model WCSF0706N

Service: #9 Awg Wire, 600 Volt

TER EQUIPMENT ITEM NO: 104

Plant ID: PWK Heat Shrink

Electrical Cable Splice Located Outside the Drywell

Raychem Model WCSF0706N

Service: 600 V

TER EQUIPMENT ITEM NO: 104

Plant ID: PWJ Heat Shrink

Electrical Cable Splice Located Outside the Drywell

Raychem Model WCSF0706N

Service: #2, #1, #1/0 #2/0 Awg Wire, 600 V

TER EQUIPMENT ITEM NO: 104

Plant ID: PWI Heat Shrink

Electrical Cable Splice Located Outside the Drywell

Raychem Model WCSF0706N

Service: #6 & #4 Awg Wire, 600 V

TER EQUIPMENT ITEM NO: 105,106

Plant ID: D11-RE N003A,B

Radiation Monitor Located in the Containment

Victoreen Model 877-1

Service: Containment High Range Radiation Monitoring

TER EQUIPMENT ITEM NO: 111,181

Plant ID: T48-LT N021A,B

Level Transmitter Located in the Torus Room

Rosemount Model 1153DB3

Service: Torus Water Level Narrow Range

TER EQUIPMENT ITEM NO: 111,113

Plant ID: T48-LT N010A,B

Level Transmitter Located in the Torus Room

Rosemount Model 1153DB5

Service: Torus Water Level Wide Range

TER EQUIPMENT ITEM NO: 117

Plant ID: T48-PT N003A,B

Pressure Transmitter Located in the Reactor Building, Elev. 158' 0"

Rosemount Model 1153GB7

Service: Containment Pressure Wide Range

TER EQUIPMENT ITEM NO: 116,117

Plant ID: T48-PT N023A,B

Pressure Transmitter Located in the Reactor Building, Elev. 158' 0"

Rosemount Model 1153GB6

Service: Containment Pressure Mid-Range

TER EQUIPMENT ITEM NO: 113,117

Plant ID: T48-PT N020A,B

Pressure Transmitter Located in the Reactor Building, Elev. 158' 0"

Rosemount Model 1153GB5

Service: Containment Pressure Narrow Range

TER EQUIPMENT ITEM NO: 130

Plant ID: T52

Electrical Penetration Located in Elev. 130' 0"

General Electric Model F01

Service: Cable Penetration Inside/Outside Drywell

TER EQUIPMENT ITEM NO: 132

Plant ID: RPT Switchgear

Switchgear Located in the Reactor Building, Elev. 185' 0"

Westinghouse Model 50DHP250

Service: Recirculation Pump Trip

TER EQUIPMENT ITEM NO: 133

Plant ID: R27-S005

Motor Starter Located in the Reactor Building, Elev. 130' 0"

Allis Chalmers Model Valueline Mark I

Service: Electrical Motor Power

TER EQUIPMENT ITEM NO: 134

Plant ID: R27-S035

Motor Starter Located in the Reactor Building, Elev. 130' 0"

General Electric Model 378X938N01

Service: Electrical Power Distribution

TER EQUIPMENT ITEM NO: 135

Plant ID: R27-S037

Motor Starter Located in the HPCI Room

General Electric Model 378X938N01

Service: Motor Power

TER EQUIPMENT ITEM NO: 135

Plant ID: R27-S036

Motor Starter Located in the HPCI Room

General Electric Model 378X938N01

Service: Motor Power

TER EQUIPMENT ITEM NO: 136

Plant ID: R27-S022

Motor Control Center Located in the Reactor Building, Elev. 130' 0"

Cutler Hammer Model Unitrol

Service: Electrical Power Distribution

TER EQUIPMENT ITEM NO: 136

Plant ID: R24-S021A

Motor Control Center Located in the Reactor Building, Elev. 130' 0"

Cutler Hammer Model Unitrol

Service: Electrical Power Distribution

TER EQUIPMENT ITEM NO: 137

Plant ID: R27-S006

Motor Starter Located in the Reactor Building, Elev. 130' 0"

Allis Chalmers Model Valueline Mark I

Service: Electrical Motor Power

TER EQUIPMENT ITEM NO: 137

Plant ID: R24-S011

Motor Starter Located in the Reactor Building, Elev. 130' 0"

Allis Chalmers Model Valueline Mark I

Service: Electrical Power Distribution

TER EQUIPMENT ITEM NO: 137

Plant ID: R24-S012

Motor Starter Located in the Reactor Building, Elev. 130' 0"

Allis Chalmers Model Valueline Mark I

Service: Electrical Power Distribution

TER EQUIPMENT ITEM NO: 137

Plant ID: R24-S013

Motor Starter Located in the Reactor Building, Elev. 130' 0"

Allis Chalmers Model Valueline Mark I

Service: Electrical Power Distribution

TER EQUIPMENT ITEM NO: 137

Plant ID: R24-S018A,B

Motor Starters Located in the Reactor Building, Elev. 130' 0"

Allis Chalmers Model Valueline Mark I

Service: Electrical Power Distribution

TER EQUIPMENT ITEM NO: 138

Plant ID: E21-C001A,B

Electrical Motor Located in the Northeast and Southeast Corner Rooms

General Electric Model 5K6339XC92A

Service: Core Spray System

TER EQUIPMENT ITEM NO: 139

Plant ID: E11-C002A,B,C,D

Electrical Motor Located in the Northeast and Southeast Corner Rooms

General Electric Model 5K6339XC89A

Service: RHR System

TER EQUIPMENT ITEM NO: 140

Plant ID: T46-C001A,B

Electric Motor Located in the Reactor Building, Elev. 164' 0"

Joy Manufacturing Model 18-14-3450

Service: Standby Gas Treatment System

TER EQUIPMENT ITEM NO: 141

Plant ID: T41-B003A,B

Electric Motor Located in the Northeast Corner Room

Joy Manufacturing Series 1000 Axivance Fan Model 29½ - 17½ - 1750

Service: RHR/Core Spray Pump Room Cooler

TER EQUIPMENT ITEM NO: 141

Plant ID: T41-B004A,B

Electric Motor Located in the RCIC (SW) Corner Room

Joy Manufacturing Series 1000 Axivance Fan Model 29½ - 17½ - 1750

Service: RCIC Pump Room Cooler

TER EQUIPMENT ITEM NO: 141

Plant ID: T41-B005A,B

Electric Motor Located in the HPCI Room

Joy Manufacturing Series 1000 Axivance Fan Model 29½ - 17½ - 1750

Service: HPCI Pump Room Cooler

TER EQUIPMENT ITEM NO: 141

Plant ID: T41-B002A,B

Electric Motor Located in the Southeast Corner Room

Joy Manufacturing Series 1000 Axivance Fan Model 29½ - 17½ - 1750

Service: RHR/Core Spray Pump Room Cooler

TER EQUIPMENT ITEM NO: 143

Plant ID: #14 SIS Vulkene

Electric Cable Located Outside The Drywell

General Electric Model SI5727511

Service: General Electric Panel Wiring

TER EQUIPMENT ITEM NO: 146

Plant ID: K1-01

Electrical Cable, Thermocouple Located Outside the Drywell

Boston Insulated Wire 2/C - #16 Awg

Service: Thermocouple Cable

TER EQUIPMENT ITEM NO: 147

Plant ID: M27-16T

Electrical Cable, Control Located Outside the Drywell

Boston Insulated Wire Model 600V

Service: Control Cable

TER EQUIPMENT ITEM NO: 149

Plant ID: #14 SIS Anaconda

Electrical Cable, Control Located in the Reactor Building, Elev. 158' 0"

Continental Wire Model # 39121090114XPSIS

Service: Remote Shutdown Panel

TER EQUIPMENT ITEM NO: 150

Plant ID: C17

Electrical Cable, Control Located Outside the Drywell

Okonite Model 600 V

Service: Control

TER EQUIPMENT ITEM NO: 150

Plant ID: C4-16T

Electrical Cable, Control Located Outside the Drywell

Okonite Model 600 V

Service: Control

TER EQUIPMENT ITEM NO: 150,152

Plant ID: C4-14T

Electrical Cable, Control Located Inside/Outside the Drywell

Okonite Model 4/C-14 AWG, 600V

Service: Control

TER EQUIPMENT ITEM NO: 152

Plant ID: C2-9T

Electrical Cable, Control Located in the Torus Room

Okonite Model 600 V

Service: This Sheet Applies to Valve Ell-AOV F065A,B,C,D Only

TER EQUIPMENT ITEM NO: 153,150,151

Plant ID: C7-14T

Electrical Cable, Control Located Inside/Outside the Drywell

Okonite Model 600 V

Service: Control

TER EQUIPMENT ITEM NO: 153,152

Plant ID: C9-14T

Electrical Cable, Control Located Outside the Drywell

Okonite Model 600 V

Service: Control

TER EQUIPMENT ITEM NO: 153

Plant ID: C7-12T

Electrical Cable, Control Located Outside the Drywell

Okonite Model 600 V

Service: Control

TER EQUIPMENT ITEM NO: 153

Plant ID: C4-12T

Electrical Cable, Control Located Outside the Drywell

Okonite Model 600 V

Service: Control

TER EQUIPMENT ITEM NO: 153

Plant ID: C2-12T

Electrical Cable, Control Located Outside the Drywell

Okonite Model 600 V

Service: Control

TER EQUIPMENT ITEM NO: 153

Plant ID: C4-9T

Electrical Cable, Control Located Outside the Drywell

Okonite Model 600 V

Service: Power

TER EQUIPMENT ITEM NO: 153

Plant ID: C7-9T

Electrical Cable, Control Located Outside the Drywell

Okonite Model 600 V

Service: Power

TER EQUIPMENT ITEM NO: 153

Plant ID: C4-6T

Electrical Cable, Control Located Outside the Drywell

Okonite Model 600 V

Service: Power

TER EQUIPMENT ITEM NO: 153

Plant ID: C1-02

Electrical Cable, Control Located Inside the Drywell

Okonite Model 600 V

Service: Power

TER EQUIPMENT ITEM NO: 156

Plant ID: N2-7

Electrical Cable, Instrument Located Inside the Drywell

Okonite Model 600 V PVC

Service: Control

TER EQUIPMENT ITEM NO: 156,150

Plant ID: N2-5

Electrical Cable, Instrument Located Inside/Outside the Drywell

Okonite Model 600 V PVC

Service: Control

TER EQUIPMENT ITEM NO: 156,150

Plant ID: C2-14T

Electrical Cable, Instrument Located Inside/Outside the Drywell

Okonite Model 600 V PVC

Service: Control

TER EQUIPMENT ITEM NO: 157,158

Plant ID: H04

Electrical Cable, Instrument Located Inside/Outside the Drywell

Anaconda Wire and Cable Model 600 V

Service: Instrumentation

TER EQUIPMENT ITEM NO: 160

Plant ID: B22

Electrical Cable, Power Located Outside the Drywell

Okonite Model 2000V

Service: Power

TER EQUIPMENT ITEM NO: 161

Plant ID: A1-03S

Electrical Cable, Power Located Outside the Drywell

Okonite Model 5000V

Service: Power

TER EQUIPMENT ITEM NO: 161

Plant ID: A1-250S

Electrical Cable, Power Located Outside the Drywell

Okonite Model 5000V

Service: Power

TER EQUIPMENT ITEM NO: 162

Plant ID: B3-350A

Electrical Cable, Power Located Outside the Drywell

Okonite Model 1000V

Service: Power

TER EQUIPMENT ITEM NO: 162

Plant ID: D1-6

Electrical Cable, Power Located Outside the Drywell

Okonite Model 1000V

Service: Power

TER EQUIPMENT ITEM NO: 162

Plant ID: D1-04

Electrical Cable, Power Located Outside the Drywell

Okonite Model 1000V

Service: Power

TER EQUIPMENT ITEM NO: 162

Plant ID: D1-02

Electrical Cable, Power Located Outside the Drywell

Okonite Model 1000V

Service: Power

TER EQUIPMENT ITEM NO: 162

Plant ID: D3-500A

Electrical Cable, Power Located Outside the Drywell

Okonite Model 1000V

Service: Power

TER EQUIPMENT ITEM NO: 162

Plant ID: B1-6

Electrical Cable, Power Located Outside the Drywell

Okonite Model 1000V

Service: Power

TER EQUIPMENT ITEM NO: 162

Plant ID: B3-6A

Electrical Cable, Power Located Outside the Drywell

Okonite Model 1000V

Service: Power

TER EQUIPMENT ITEM NO: 162

Plant ID: B3-250A

Electrical Cable, Power Located Outside the Drywell

Okonite Model 1000V

Service: Power

TER EQUIPMENT ITEM NO: 162

Plant ID: B1-250

Electrical Cable, Power Located Outside the Drywell

Okonite Model 1000V

Service: Power

TER EQUIPMENT ITEM NO: 162

Plant ID: B3-2A

Electrical Cable, Power Located Outside the Drywell

Okonite Model 1000V

Service: Power

TER EQUIPMENT ITEM NO: 163,162

Plant ID: N2-09

Electrical Cable, Power Located Outside the Drywell

Okonite Model 1000V

Service: Power

TER EQUIPMENT ITEM NO: 163,162

Plant ID: B3-9A

Electrical Cable, Power Located Inside/Outside the Drywell

Okonite Model 1000V

Service: Power

TER EQUIPMENT ITEM NO: 175,131

Plant ID: States Type NT

Terminal Block Located Inside the Drywell

States Model ZWM

Service: Terminal Block

TER EQUIPMENT ITEM NO: 176

Plant ID: D11-RE N003A,B (Cable)

Electrical Cable Located in the Containment

Victoreen Model 87815

Service: Containment High Range Radiation Monitors

TER EQUIPMENT ITEM NO: 177

Plant ID: T48-AOV F310

Solenoid Valve Located in the Torus Room

ASCO Model NP8316A74E

Service: Torus Pressure Equal Isolation

TER EQUIPMENT ITEM NO: 177

Plant ID: T48-AOV F311

Solenoid Valve Located in the Torus Room

ASCO Model NP8316A74E

Service: Torus Pressure Equal Isolation

TER EQUIPMENT ITEM NO: 179

Plant ID: P42-MOV F052

Motorized Valve Actuator Located in the Torus Room

Limitorque Model SMB, AC Service, Class H Insulation

Service: RBCCW Isolation from Primary Containment

TER EQUIPMENT ITEM NO: 179

Plant ID: P42-MOV F051

Motorized Valve Actuator Located in the Torus Room

Limitorque Model SMB, AC Service, Class H Insulation

Service: RBCCW Isolation to Primary Containment

TER EQUIPMENT ITEM NO: 180

Plant ID: E11-MOV F104A,B

Motorized Valve Actuator Located in the Northeast and Southeast Corner Rooms

Limitorque Model SMB, AC Service, Class H Insulation

Service: Residual Heat Removal Hx Ventilation Isolation

The following equipment was not addressed in Franklin Research Center's Technical Evaluation Report. However, the equipment is part of Georgia Power Company's I.E. Bulletin 79-01B Qualified Equipment List.

T48-AOV F103

Solenoid Valve Located in the Torus Room

ASCO Model NP206-380-3F

Service: Drywell/Torus Purge Isolation

E41-AOV F025

Solenoid Valve Located in the HPCI Room

ASCO Model NP206-381-3F

Service: Condensate Pump Discharge Drain Isolation

E41-MOV F008

Motorized Valve Actuator Located in the HPCI Room

Limatorque Model SMB, DC Service, Class B Insulation

Service: Test Bypass Isolation to Condensate Storage Tank

E11-MOV F010

Motorized Valve Actuator Located in the Torus Room

Limatorque Model SMB, AC Service, Class B Insulation

Service: RHR Cross Tie

C12-14T

Control Cable Located Outside the Drywell

Okonite Model 12/C #14 Awg 600 V Insulation

Service: Control

T48-AOV F333B

Solenoid Valve Located in the Torus Room

ASCO Model NP206-380-6RF

Service: Torus Bypass Operation

The following equipment is part of new design changes and not presently installed. However, when installed this equipment will be added to the I. E. Bulletin 79-01B Equipment List and will be qualified.

Plant ID: P70-PS N006A,B
Pressure Switch Located in the Northwest Corner Room
ITT Barton Model 580A-2
Service: Air Receiver P70-A001

Plant ID: P70-FT N020A,B
Flow Transmitter Located in Reactor Building
Rosemount Model 1153-DB3PA
Service: Drywell Pneumatic System High Flow Isol.

Plant ID: P70-FT N022A,B
Flow Transmitter Located in Reactor Building
Rosemount Model 1153-DB3PA
Service: Drywell Pneumatic System High Flow Isol.

Plant ID: C11-SV-F040
Solenoid Valve Located in the Reactor Building, Elev. 130' 0"
ASCO Model NP8323A22E
Service: Scram Discharge Valve Isol.

Plant ID: T41-AOV-F040A,B
Solenoid Valve Located in the Reactor Building, Elev. 164' 0"
ASCO Model NP8321A2E
Service: Out to Stand By Gas Treatment System

Plant ID: T41-AOV-F040A,B
Limit Switches Located in the Reactor Building, Elev. 164' 0"
NAMCO Model EA180-31302 and EA180-32302
Service: Out to stand By Gas Treatment System

Plant ID: P70-SV-F005
Solenoid Valves Located Reactor Building
Target Rock Model 1121010
Service: Drywell Pneumatic System High Flow Isolation

Plant ID: P70-SV-F066
Solenoid Valves Located Reactor Building
Target Rock Model 1121010
Service: Drywell Pneumatic System High Flow Isolation

Plant ID: P70-SV-F067
Solenoid Valves Located Reactor Building
Target Rock Model 1121010
Service: Drywell Pneumatic System High Flow Isolation

Plant ID: P70-SV-F004
Solenoid Valves Located Reactor Building
Target Rock Model 1121010
Service: Drywell Pneumatic System High Flow Isolation

Plant ID: P70-SV-F001B
Solenoid Valve Located in the Northwest Corner Room
Valcor Model V526-5920-5
Service: Backup Nitrogen Supply Line

SECTION C

EQUIPMENT REQUIRING QUALIFICATION CLARIFICATIONS

INTRODUCTION

This section provides the information and the clarifications required to address the discrepancies identified by the Nuclear Regulatory Commission (NRC) in the Environmental Qualification Safety Evaluation Report (SER).

Equipment identified by the NRC as requiring information and/or clarifications are those in NRC Qualification Categories I.b. - Equipment Qualification Pending Modification, II.a. - Equipment Qualification Not Established, II.b - Equipment Not Qualified and II.c - Equipment satisfies all requirements except qualified life or replacement schedule justified. The NRC has not classified any Plant Hatch Unit 1 equipment as Qualification Category II.b Georgia Power Company's thirty (30) day response to the NRC Safety Evaluation Report, Revision 0, dated May 6, 1983 addresses the NRC Discrepancy(s) for equipment in Qualification Categories I.b and II.a. Therefore, this section only addresses equipment in Qualification Category II.c.

The plant identification numbers, locations, manufacturers, model numbers, and plant services are listed for each individual TER equipment item number, followed by the discrepancy(s) noted in the Technical Evaluation Report (TER). The NRC discrepancy(s) is (are) addressed in the clarification section.

TER EQUIPMENT ITEM NO. 1

Motorized Valve Actuator Located in the Reactor Building, Elev. 130'0"

Plant ID: T48-MOV F013A,B

Limatorque Model SMB, Class H Insulation

Service: Nitrogen Makeup Isolation

NRC DISCREPANCY

Aging Degradation Evaluated Adequately

Qualified Life or Replacement Schedule Established

- A. The licensee has not provided documented evidence from the manufacturer that the installed equipment and the test specimen(s) in the referenced report(s) are similar. The licensee has also not identified any motorized valve actuators that incorporate motor-brake assemblies, yet has referenced reports which tested motorized valve actuators with such devices. The licensee should obtain the information necessary to establish similarity, or submit the same if it is already in their central file (also referencing this information on the System Component Evaluation Worksheets (SCEWs)).
- B. The licensee has cited B0058 in an effort to establish similarity between the installed equipment and that which has been tested by Limatorque. It should be noted that Limatorque's generic qualification is acceptable, but that this report does not in itself establish similarity, nor does it establish a conservative qualified life for the equipment. In order to establish a qualified life estimate for this equipment, the licensee must completely identify the installed components (i.e. motor lead insulation.) and then calculate a qualified life based on available information. This available information can come from either testing performed prior to environmental testing or from published data. None of the referenced reports have calculated a qualified life based on an acceptable technique. It should also be noted that the thermal aging that has been performed has been done on individual components or simulates only a fraction of the qualified life claimed. No basis has been stated in the report for the times or temperatures chosen for the thermal aging performed.

CLARIFICATION

Documented evidence establishing similarity between the installed equipment and the test specimen is provided by the manufacturer and can be found in Georgia Power Company's Qualification Documentation Files.

TER EQUIPMENT ITEM NO. 1 (Continued)

Additionally, FRC states that a qualified life has not been established in an acceptable manner. The DOR Guidelines do not require a qualified life to be established for all equipment.

Georgia Power Company has performed further evaluation of age sensitive components and, using available test data and published data, established a qualified life in accordance with the requirements of the DOR Guidelines. Therefore, this equipment is considered qualified and Justification for Continued Operation is not required.

TER EQUIPMENT ITEM NO. 4

Motorized Valve Actuator Located in the Pipe Penetration Room

Plant ID: Ell-MOV F015A

Limitorque Model SB3, AC Service, Class H Insulation

Service: LPCI Discharge Isolation

NRC DISCREPANCY

Aging Degradation Evaluated Adequately

Qualified Life or Replacement Schedule Established

- A. The licensee has not provided documented evidence from the manufacturer that the installed equipment and the test specimen(s) in the referenced report(s) are similar. The licensee has also not identified any motorized valve actuators that incorporate motor-brake assemblies, yet has referenced reports which tested motorized valve actuators with such devices. The licensee should obtain the information necessary to establish similarity, or submit the same if it is already in their central file (also referencing this information on the System Component Evaluation Worksheets (SCEWs)).
- B. The licensee has cited B0058 in an effort to establish similarity between the installed equipment and that which has been tested by Limitorque. It should be noted that Limitorque's generic qualification is acceptable, but that this report does not in itself establish similarity, nor does it establish a conservative qualified life for the equipment. In order to establish a qualified life estimate for this equipment, the licensee must completely identify the installed components (i.e. motor lead insulation.) and then calculate a qualified life based on available information. This available information can come from either testing performed prior to environmental testing or from published data. None of the referenced reports have calculated a qualified life based on an acceptable technique. It should also be noted that the thermal aging that has been performed has been done on individual components or simulates only a fraction of the qualified life claimed. No basis has been stated in the report for the times or temperatures chosen for the thermal aging performed.

CLARIFICATION

Documented evidence establishing similarity between the installed equipment and the test specimen is provided by the manufacturer and can be found in Georgia Power Company's Qualification Documentation Files.

TER EQUIPMENT ITEM NO. 4 (Continued)

Additionally, FRC states that a qualified life has not been established in an acceptable manner. The DOR Guidelines do not require a qualified life to be established for all equipment.

Georgia Power Company has performed further evaluation of age sensitive components and, using available test data and published data, established a qualified life in accordance with the requirements of the DOR Guidelines. Therefore, this equipment is considered qualified and Justification for Continued Operation is not required.

TER EQUIPMENT ITEM NO. 7

Motorized Valve Actuator Located in the Reactor Building, Elev. 185'0"

Plant ID: Ell-MOV F023

Limatorque Model SMB, DC Service, Class B Insulation

Service: Vessel Head Spray Header Isolation

NRC DISCREPANCY

Aging Degradation Evaluated Adequately

Qualified Life or Replacement Schedule Established

- A. The licensee has not provided documented evidence from the manufacturer that the installed equipment and the test specimen(s) in the referenced report(s) are similar. The licensee has also not identified any motorized valve actuators that incorporate motor-brake assemblies, yet has referenced reports which tested motorized valve actuators with such devices. The licensee should obtain the information necessary to establish similarity, or submit the same if it is already in their central file (also referencing this information on the System Component Evaluation Worksheets (SCEWs)).
- B. The licensee has cited B0058 in an effort to establish similarity between the installed equipment and that which has been tested by Limatorque. It should be noted that Limatorque's generic qualification is acceptable, but that this report does not in itself establish similarity, nor does it establish a conservative qualified life for the equipment. In order to establish a qualified life estimate for this equipment, the licensee must completely identify the installed components (i.e. motor lead insulation.) and then calculate a qualified life based on available information. This available information can come from either testing performed prior to environmental testing or from published data. None of the referenced reports have calculated a qualified life based on an acceptable technique. It should also be noted that the thermal aging that has been performed has been done on individual components or simulates only a fraction of the qualified life claimed. No basis has been stated in the report for the times or temperatures chosen for the thermal aging performed.

However, it is noted that the accident environment is relatively "non-harsh" and that any combination of components which could be found in Limatorque motorized valve actuators should be able to withstand these conditions. due to this fact, the only deficiency that exists is that of qualified life.

CLARIFICATION

Documented evidence establishing similarity between the installed equipment and the test specimen is provided by the manufacturer and can be found in Georgia Power Company's Qualification Documentation Files.

TER EQUIPMENT ITEM NO. 7 (Continued)

Additionally, FRC states that a qualified life has not been established in an acceptable manner. The DOR Guidelines do not require a qualified life to be established for all equipment.

Georgia Power Company has performed further evaluation of age sensitive components and, using available test data and published data, established a qualified life in accordance with the requirements of the DOR Guidelines. Therefore, this equipment is considered qualified and Justification for Continued Operation is not required.

TER EQUIPMENT ITEM NO. 11

Motorized Valve Actuator Located in the Northeast and Southeast Corner Rooms

Plant ID: E21-MOV F001A,B

Limatorque Model SMB, AC Service, Class B Insulation

Service: Core Spray Pump Suction Isolation

NRC DISCREPANCY

Aging Degradation Evaluated Adequately

Qualified Life or Replacement Schedule Established

- A. The licensee has not provided documented evidence from the manufacturer that the installed equipment and the test specimen(s) in the referenced report(s) are similar. The licensee has also not identified any motorized valve actuators that incorporate motor-brake assemblies, yet has referenced reports which tested motorized valve actuators with such devices. The licensee should obtain the information necessary to establish similarity, or submit the same if it is already in their central file (also referencing this information on the System Component Evaluation Worksheets (SCEWs)).
- B. The licensee has cited B0058 in an effort to establish similarity between the installed equipment and that which has been tested by Limatorque. It should be noted that Limatorque's generic qualification is acceptable, but that this report does not in itself establish similarity, nor does it establish a conservative qualified life for the equipment. In order to establish a qualified life estimate for this equipment, the licensee must completely identify the installed components (i.e. motor lead insulation.) and then calculate a qualified life based on available information. This available information can come from either testing performed prior to environmental testing or from published data. None of the referenced reports have calculated a qualified life based on an acceptable technique. It should also be noted that the thermal aging that has been performed has been done on individual components or simulates only a fraction of the qualified life claimed. No basis has been stated in the report for the times or temperatures chosen for the thermal aging performed.

However, it is noted that the accident environment is relatively "non-harsh" and that any combination of components which could be found in Limatorque motorized valve actuators should be able to withstand these conditions. Due to this fact, the only deficiency that exists is that of qualified life.

CLARIFICATION

Documented evidence establishing similarity between the installed equipment and the test specimen is provided by the manufacturer and can be found in Georgia Power Company's Qualification Documentation Files.

TER EQUIPMENT ITEM NO. 11 (Continued)

Additionally, FRC states that a qualified life has not been established in an acceptable manner. The DOR Guidelines do not require a qualified life to be established for all equipment.

Georgia Power Company has performed further evaluation of age sensitive components and, using available test data and published data, established a qualified life in accordance with the requirements of the DOR Guidelines. Therefore, this equipment is considered qualified and Justification for Continued Operation is not required.

TER EQUIPMENT ITEM NO. 17

Motorized Valve Actuator Located in the HPCI Room

Plant ID: E41-MOV F004

Limatorque Model SMB, DC Service, Class B Insulation

Service: Condensate Storage Tank to Pump Suction Isolation

Plant ID: E41-MOV F042

Limatorque Model SMB, DC Service, Class B Insulation

Service: HPCI Pump Suction Isolation from Torus*

NRC DISCREPANCY

Aging Degradation Evaluated Adequately

Qualified Life or Replacement Schedule Established

- A. The licensee has not provided documented evidence from the manufacturer that the installed equipment and the test specimen(s) in the referenced report(s) are similar. The licensee has also not identified any motorized valve actuators that incorporate motor-brake assemblies, yet has referenced reports which tested motorized valve actuators with such devices. The licensee should obtain the information necessary to establish similarity, or submit the same if it is already in their central file (also referencing this information on the System Component Evaluation Worksheets (SCEWs)).
- B. The licensee has cited B0058 in an effort to establish similarity between the installed equipment and that which has been tested by Limatorque. It should be noted that Limatorque's generic qualification is acceptable, but that this report does not in itself establish similarity, nor does it establish a conservative qualified life for the equipment. In order to establish a qualified life estimate for this equipment, the licensee must completely identify the installed components (i.e. motor lead insulation.) and then calculate a qualified life based on available information. This available information can come from either testing performed prior to environmental testing or from published data. None of the referenced reports have calculated a qualified life based on an acceptable technique. It should also be noted that the thermal aging that has been performed has been done on individual components or simulates only a fraction of the qualified life claimed. No basis has been stated in the report for the times or temperatures chosen for the thermal aging performed.

However, it is noted that the accident environment is relatively "non-harsh" and that any combination of components which could be found in Limatorque motorized valve actuators should be able to withstand these conditions. Due to this fact, the only deficiency that exists is that of qualified life.

* The service has been expanded to provide clarity.

TER EQUIPMENT ITEM NO. 17 (Continued)

CLARIFICATION

Documented evidence establishing similarity between the installed equipment and the test specimen is provided by the manufacturer and can be found in Georgia Power Company's Qualification Documentation Files.

Additionally, FRC states that a qualified life has not been established in an acceptable manner. The DOR Guidelines do not require a qualified life to be established for all equipment.

Georgia Power Company has performed further evaluation of age sensitive components and, using available test data and published data, established a qualified life in accordance with the requirements of the DOR Guidelines. Therefore, this equipment is considered qualified and Justification for Continued Operation is not required.

TER EQUIPMENT ITEM NO. 18

Motorized Valve Actuator Located in the Torus Room

Plant ID: P41-MOV F050

Limitorque Model SMB, AC Service, Class H Insulation

Service: Service Water Isolation to Drywell Coolers*

Plant ID: P41-MOV F049

Limitorque Model SMB, AC Service, Class H Insulation

Service: Service Water Isolation to Drywell Coolers*

Plant ID: E11-MOV F119A,B

Limitorque Model SMB, AC Service, Class H Insulation

Service: Residual Heat Removal Exchanger Bypass

NRC DISCREPANCY

Aging Degradation Evaluated Adequately

Qualified Life or Replacement Schedule Established

- A. The licensee has not provided documented evidence from the manufacturer that the installed equipment and the test specimen(s) in the referenced report(s) are similar. The licensee has also not identified any motorized valve actuators that incorporate motor-brake assemblies, yet has referenced reports which tested motorized valve actuators with such devices. The licensee should obtain the information necessary to establish similarity, or submit the same if it is already in their central file (also referencing this information on the System Component Evaluation Worksheets (SCEWs)).
- B. The licensee has cited B0058 in an effort to establish similarity between the installed equipment and that which has been tested by Limitorque. It should be noted that Limitorque's generic qualification is acceptable, but that this report does not in itself establish similarity, nor does it establish a conservative qualified life for the equipment. In order to establish a qualified life estimate for this equipment, the licensee must completely identify the installed components (i.e. motor lead insulation.) and then calculate a qualified life based on available information. This available information can come from either testing performed prior to environmental testing or from published data. None of the referenced reports have calculated a qualified life based on an acceptable technique. It should also be noted that the thermal aging that has been performed has been done on individual components or simulates only a fraction of the qualified life claimed. No basis has been stated in the report for the times or temperatures chosen for the thermal aging performed.

* Service has been expanded for clarity.

TER EQUIPMENT ITEM NO. 18 (Continued)

CLARIFICATION

Documented evidence establishing similarity between the installed equipment and the test specimen is provided by the manufacturer and can be found in Georgia Power Company's Qualification Documentation Files.

Additionally, FRC states that a qualified life has not been established in an acceptable manner. The DOR Guidelines do not require a qualified life to be established for all equipment.

Georgia Power Company has performed further evaluation of age sensitive components and, using available test data and published data, established a qualified life in accordance with the requirements of the DOR Guidelines. Therefore, this equipment is considered qualified and Justification for Continued Operation is not required.

TER EQUIPMENT ITEM NO. 22

Motorized Valve Actuator Located in the HPCI Room

Plant ID: E41-MOV F059

Limitorque Model SMB, DC Service, Class H Insulation

Service: HPCI Pump Discharge Isolation to Barometric Condenser

Plant ID: E21-MOV F015A,B*

Limitorque Model SMB, DC Service, Class H Insulation

Service: Test Bypass Isolation

Plant ID: E21-MOV F031A,B*

Limitorque Model SMB, DC Service, Class H Insulation

Service: Core Spray Pump Minimum Flow Bypass Isolation

NRC DISCREPANCY

Aging Degradation Evaluated Adequately

Qualified Life or Replacement Schedule Established

- A. The licensee has not provided documented evidence from the manufacturer that the installed equipment and the test specimen(s) in the referenced report(s) are similar. The licensee has also not identified any motorized valve actuators that incorporate motor-brake assemblies, yet has referenced reports which tested motorized valve actuators with such devices. The licensee should obtain the information necessary to establish similarity, or submit the same if it is already in their central file (also referencing this information on the System Component Evaluation Worksheets (SCEWs)).
- B. The licensee has cited B0058 in an effort to establish similarity between the installed equipment and that which has been tested by Limitorque. It should be noted that Limitorque's generic qualification is acceptable, but that this report does not in itself establish similarity, nor does it establish a conservative qualified life for the equipment. In order to establish a qualified life estimate for this equipment, the licensee must completely identify the installed components (i.e. motor lead insulation.) and then calculate a qualified life based on available information. This available information can come from either testing performed prior to environmental testing or from published data. None of the referenced reports have calculated a qualified life based on an acceptable technique. It should also be noted that the thermal aging that has been performed has been done on individual components or simulates only a fraction of the qualified life claimed. No basis has been stated in the report for the times or temperatures chosen for the thermal aging performed.

* The location given for valves is incorrect. The correct location is the Northeast and Southeast Corner Rooms.

TER EQUIPMENT ITEM NO. 22 (Continued)

However, it is noted that the accident environment is relatively "non-harsh" and that any combination of components which could be found in Limitorque motorized valve actuators should be able to withstand these conditions. Due to this fact, the only deficiency that exists is that of qualified life.

CLARIFICATION

Documented evidence establishing similarity between the installed equipment and the test specimen is provided by the manufacturer and can be found in Georgia Power Company's Qualification Documentation Files.

Additionally, FRC states that a qualified life has not been established in an acceptable manner. The DOR Guidelines do not require a qualified life to be established for all equipment.

Georgia Power Company has performed further evaluation of age sensitive components and, using available test data and published data, established a qualified life in accordance with the requirements of the DOR Guidelines. Therefore, this equipment is considered qualified and Justification for Continued Operation is not required.

TER EQUIPMENT ITEM NO. 24

Motorized Valve Actuator Located in the Northeast and Southeast Corner Rooms

Plant ID: E11-MOV F007A,B

Limiterque Model SMB, AC Service, Class B Insulation

Service: RHR Pump Minimum Flow Bypass Isolation

Plant ID: E11-MOV F006A,B,C,D

Limiterque Model SMB, AC Service, Class B Insulation

Service: RHR Pump Suction Isolation

Plant ID: E11-MOV F004A,B,C,D

Limiterque Model SMB, AC Service, Class B Insulation

Service: RHR Pump Suction Isolation

Plant ID: E11-MOV F003A,B

Limiterque Model SMB, AC Service, Class B Insulation

Service: Hx Discharge Isolation

Plant ID: E11-MOV F011A,B

Limiterque Model SMB, AC Service, Class B Insulation

Service: RHR Hx Drain to Torus Isolation

Plant ID: E11-MOV F015B

Limiterque Model SMB, AC Service, Class B Insulation

Service: LPCI Discharge Isolation

Plant ID: E11-MOV F026A,B

Limiterque Model SMB, AC Service, Class B Insulation

Service: RHR Hx to Reactor Core Cooling Isolation

Plant ID: E11-MOV F048A,B

Limiterque Model SMB, AC Service, Class B Insulation

Service: RHR Hx Bypass Isolation

Plant ID: E11-MOV F047A,B

Limiterque Model SMB, AC Service, Class B Insulation

Service: RHR Hx Inlet Isolation

Plant ID: E11-MOV F068A,B

Limiterque Model SMB, AC Service, Class B Insulation

Service: RHR Service Water Flow Control

Plant ID: E11-MOV F103A,B

Limiterque Model SMB, AC Service, Class B Insulation

Service: RHR Hx Inlet Isolation

TER EQUIPMENT ITEM NO. 24 (Continued)

NRC DISCREPANCY

Aging Degradation Evaluated Adequately
Qualified Life or Replacement Schedule Established

- A. The licensee has not provided documented evidence from the manufacturer that the installed equipment and the test specimen(s) in the referenced report(s) are similar. The licensee has also not identified any motorized valve actuators that incorporate motor-brake assemblies, yet has referenced reports which tested motorized valve actuators with such devices. The licensee should obtain the information necessary to establish similarity, or submit the same if it is already in their central file (also referencing this information on the System Component Evaluation Worksheets (SCEWs)).
- B. The licensee has cited B0058 in an effort to establish similarity between the installed equipment and that which has been tested by Limitorque. It should be noted that Limitorque's generic qualification is acceptable, but that this report does not in itself establish similarity, nor does it establish a conservative qualified life for the equipment. In order to establish a qualified life estimate for this equipment, the licensee must completely identify the installed components (i.e. motor lead insulation.) and then c. available information can come from either testing performed prior to environmental testing or from published data. None of the referenced reports have calculated a qualified life based on an acceptable technique. It should also be noted that the thermal aging that has been performed has been done on individual components or simulates only a fraction of the qualified life claimed. No basis has been stated in the report for the times or temperatures chosen for the thermal aging performed.

However, it is noted that the accident environment is relatively "non-harsh" and that any combination of components which could be found in Limitorque motorized valve actuators should be able to withstand these conditions. Due to this fact, the only deficiency that exists is that of qualified life.

CLARIFICATION

Documented evidence establishing similarity between the installed equipment and the test specimen is provided by the manufacturer and can be found in Georgia Power Company's Qualification Documentation Files.

Additionally, FRC states that a qualified life has not been established in an acceptable manner. The DOR Guidelines do not require a qualified life to be established for all equipment.

Georgia Power Company has performed further evaluation of age sensitive components and, using available test data and published data, established a qualified life in accordance with the requirements of the DOR Guidelines. Therefore, this equipment is considered qualified and Justification for Continued Operation is not required.

TER EQUIPMENT ITEM NO. 39

Solenoid Valve Located Inside Containment

Plant ID: B21-AOV F013A,C,E,F,J,K,L

Target Rock Model 1/2 SMS-A-01-1

Service: Automatic Depressurization System

NRC DISCREPANCY

Qualified Life or Replacement Schedule Established
Criteria Regarding Aging Simulation Satisfied.

1. The Licensee references the aging analysis performed by Target Rock as Appendix I of TRC 2063B as evidence of qualification for a 5 year replacement interval for this equipment. It is noted, however, that the test report summary did not present any evidence that the thermal aging time and temperature exposure was performed during the test program.
2. The radiation criteria has not been met. A conservative qualified life estimate dictated by the Licensee's plant specific application aging analysis (provided the thermal aging of Appendix I mentioned above was performed) should alleviate this problem by reducing the radiation absorbed during normal life.

CLARIFICATION

The Target Rock Test Report provides a list of the non-metallic materials in the solenoid valve, of which there are two (2): Polyimide and Silicon Rubber.

The solenoid valves were aged for 480 hours @ 285° F which was based on the 10° C rule. (The calculation is shown in Appendix I of the Test Report.) Georgia Power Company has performed calculations using the above test data, plant specific temperatures, and the Arrhenius Equation to demonstrate a qualified life of 10 years for the silicon rubber O-rings and gasket and 40 years for the polyimide.

The solenoid valves were exposed to 3.26×10^7 rads during testing. However, the plant specific total integrated dose is 4.4×10^7 rads (1.8×10^7 rads for 40 years of normal operation and 2.6×10^7 rads for accident dose).

The radiation threshold of silicon rubber is less than 4.4×10^7 rads, therefore, the silicon rubber shall not be exposed to more than 3.26×10^7 rads. Georgia Power Company has performed a calculation which demonstrates that replacing the O-rings every ten (10) years will keep the total integrated dose less than 3.26×10^7 rads.

Based on the above, Georgia Power Company has established a qualified life based on methods acceptable to the NRC.

TER EQUIPMENT ITEM NO. 51

Solenoid Valve Located Inside Containment

Plant ID: E21-AOV F006A,B (E21-AOV F037A,B)

ASCO Model NP8344A73A

Service: Core Spray Pump Discharge Isolation

NRC DISCREPANCY

Qualified Life or Replacement Schedule Established

The NRC has stated that a specific qualified life has not been established for this equipment using plant specific parameters.

CLARIFICATION

The manufacturer recommends replacement of non-metallic parts every four (4) years based on the results of the Qualification Tests. Georgia Power Company has established a qualified life of greater than four (4) years based on activation energies of the non-metallic materials obtained from ASCO, the aging test time and temperature, plant specific normal temperatures, and the Arrhenius equation. However, Georgia Power Company is following the manufacturer's recommendations.

In accordance with the NRC recommendation, the replacement solenoid valves have been sealed at the conduit entrance with qualified materials which prevent moisture from entering the solenoid valve.

TER EQUIPMENT ITEM NO. 57

Limit Switches located inside Containment

Plant ID: B21-AOV F022A,B,C,D
NAMCO Model EA740-80000/EA740-80001
Service: Main Steam Line Isolation

Plant ID: B21-AOV F028A,B,C,D
NAMCO Model EA740-80000/EA740-80001
Service: Main Steam Line Isolation

NRC DISCREPANCY

Aging Degradation Evaluated Adequately
Qualified Life or Replacement Schedule Established

"Heat aging. The heat aging test consisted of holding the unit suspended over water in a tank at a temperature of 200°F for 200 hours. +

+ Heat aging conditions were taken from ANSI Draft Standard N278.2.1 (Draft 3, Rev. 0). The correlation between these conditions and the qualified life is not known.

The licensee has referred to an "estimation of qualified life of EA740 Series Nuclear Switch" dated 2/27/1980. This NAMCO Report provides an estimated qualified life of 4.0 years at 104°F, assuming an activation energy of 0.958 eV for the NBR gasket material. The SCEW sheet states that the specified ambient temp. is 135°F. No estimation of qualified life at the specified service temperature is provided.

CLARIFICATION

Georgia Power Company has replaced these limit switches with upgraded limit switches of the same model but which are qualified per NAMCO Report QTR-111. The qualification report provides a temperature versus time curve based on the test time and temperature and the Arrhenius equation. Georgia Power Company has established a qualified life for these switches using this curve.

In accordance with the NRC recommendation, the replacement limit switches have been sealed at the conduit entrance with qualified materials which prevent moisture from entering the limit switch.

TER EQUIPMENT ITEM NO. 179

Motorized Valve Actuator Located in the Torus Room

Plant ID: P42-MOV F052

Limatorque Model SMB, AC Service, Class H Insulation

Service: RBCCW Isolation from Primary Containment

Plant ID: P42-MOV F051

Limatorque Model SMB, AC Service, Class H Insulation

Service: RBCCW Isolation to Primary Containment

NRC DISCREPANCY

Aging Degradation Evaluated Adequately

Qualified Life or Replacement Schedule Established

- A. The licensee has not provided documented evidence from the manufacturer that the installed equipment and the test specimen(s) in the referenced report(s) are similar. The licensee has also not identified any motorized valve actuators that incorporate motor-brake assemblies, yet has referenced reports which tested motorized valve actuators with such devices. The licensee should obtain the information necessary to establish similarity, or submit the same if it is already in their central file (also referencing this information on the System Component Evaluation Worksheets (SCEWs)).
- B. The licensee has cited B0058 in an effort to establish similarity between the installed equipment and that which has been tested by Limatorque. It should be noted that Limatorque's generic qualification program is acceptable, but that this report does not in itself establish similarity, nor does it establish a qualified life estimate for this equipment. In order to establish a conservative qualified life for the equipment, the licensee must completely identify the installed components (i.e. motor lead insulation) and then calculate a qualified life based on available information. This available information can come from either testing performed prior to environmental testing or from published data. None of the referenced reports have calculated a qualified life based on an acceptable technique. It should also be noted that the thermal aging that has been performed has been done on individual components or simulates only a fraction of the qualified life claimed. No basis has been stated in the report for the times or temperatures chosen for the thermal aging performed.

CLARIFICATION

Documented evidence establishing similarity between the installed equipment and the test specimen is provided by the manufacturer and can be found in Georgia Power Company's Qualification Documentation Files.

TER EQUIPMENT ITEM NO. 179 (Continued)

Additionally, FRC states that a qualified life has not been established in an acceptable manner. The DOR Guidelines do not require a qualified life to be established for all equipment.

Georgia Power Company has performed further evaluation of age sensitive components and, using available test data and published data, established a qualified life in accordance with the requirements of the DOR Guidelines. Therefore, this equipment is considered qualified and Justification for Continued Operation is not required.

TER EQUIPMENT ITEM NO. 180

Motorized Valve Actuator Located in the Northeast and Southeast Corner Rooms

Plant ID: Ell-MOV F104A,B

Limatorque Model SMB, AC Service, Class H Insulation

Service: RHR Hx Ventilation Isolation

NRC DISCREPANCY

Aging Degradation Evaluated Adequately

Qualified Life or Replacement Schedule Established

- A. The licensee has not provided documented evidence from the manufacturer that the installed equipment and the test specimen(s) in the referenced report(s) are similar. The licensee has also not identified any motorized valve actuators that incorporate motor-brake assemblies, yet has referenced reports which tested motorized valve actuators with such devices. The licensee should obtain the information necessary to establish similarity, or submit the same if it is already in their central file (also referencing this information on the System Component Evaluation Worksheets (SCEWs)).
- B. The licensee has cited B0058 in an effort to establish similarity between the installed and equipment and that which has been tested by Limatorque. It should be noted that Limatorque's generic qualification is acceptable, but that this report does not in itself establish similarity, nor does it establish a qualified life estimate for this equipment. In order to establish a conservative qualified life estimate for this equipment, the licensee must completely identify the installed components (i.e. motor lead insulation) and then calculate a qualified life based on available information. This available information can come from either testing performed prior to environmental testing or from published data. None of the referenced reports have calculated a qualified life based on an acceptable technique. It should also be noted that the thermal aging that has been performed has been done on individual components or simulates only a fraction of the qualified life claimed. No basis has been stated in the report for the times or temperatures chosen for the thermal aging performed.

However, it is noted that the accident environment is relatively "non-harsh" and that any combination of components which could be found in Limatorque motorized valve actuators should be able to withstand these conditions. Due to this fact, the only deficiency that exists is that of qualified life.

TER EQUIPMENT ITEM NO. 180 (Continued)

CLARIFICATION

Documented evidence establishing similarity between the installed equipment and the test specimen is provided by the manufacturer and can be found in Georgia Power Company's Qualification Documentation Files.

Additionally, FRC states that a qualified life has not been established in an acceptable manner. The DOR Guidelines do not require a qualified life to be established for all equipment.

Georgia Power Company has performed further evaluation of age sensitive components and, using available test data and published data, established a qualified life in accordance with the requirements of the DOR Guidelines. Therefore, this equipment is considered qualified and Justification for Continued Operation is not required.

SECTION D

OPEN ITEM EQUIPMENT LIST

INTRODUCTION

This section provides, per the requirements of 10CFR50.49, Paragraph (g), a list of electrical equipment important to safety, which has not yet been environmentally qualified by Georgia Power Company.

The equipment is identified by the TER Equipment Item Number (if applicable) and associated Plant Identification Number, followed by the Equipment Location, Equipment Description, and the Equipment Service.

The Corrective Action for resolving the Open Item and a schedule for completing that action is provided for the equipment.

The schedules provided for resolving the open items meet the requirements of 10CFR50.49, Paragraph (g).

TABLE D-1

OPEN ITEM EQUIPMENT LIST

TER EQUIPMENT ITEM NO.: 2

Plant ID: E41-MOV F003

Motorized Valve Actuator Located in the Pipe Penetration Room

Limatorque Model SMB, Class B Insulation

Service: Steam Supply Isolation

CORRECTIVE ACTION: The motor for this motor operated valve will be replaced with a qualified motor prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 3

Plant ID: B21-MOV F019

Motorized Valve Actuator Located in the Pipe Chase

Limatorque Model SMB, DC Service, Class H Insulation

Service: Drain Isolation

CORRECTIVE ACTION: The motor for this motor operated valve will be replaced with a qualified motor prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 6

Plant ID: E51-MOV F031

Motorized Valve Actuator Located in the Southwest Corner Room (RCIC)

Limatorque Model SMB, DC Service, Class B Insulation

Service: RCIC Pump Suction Isolation from Torus

CORRECTIVE ACTION: The motor for this motor operated valve will be replaced with a qualified motor prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 10

Plant ID: B31-MOV F031A,B

Motorized Valve Actuator Located in the Containment

Limatorque Model SMB 3, AC Service, Class H Insulation

Service: Recirculation Pump Discharge Isolation

CORRECTIVE ACTION: The actuator and motor for this motor operated valve will be replaced with a qualified actuator and motor prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 13

Plant ID: G31-MOV F001

Motorized Valve Actuator Located in the Containment

Limatorque Model SMB, AC Service

Service: RWCU Pump Suction Isolation

CORRECTIVE ACTION: The motor for this motor operated valve will be replaced with a qualified motor prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 13

Plant ID: E11-MOV F022

Motorized Valve Actuator Located in the Containment

Limiterque Model SMB, AC Service

Service: Vessel Head Spray Heater Isolation

CORRECTIVE ACTION: The motor for this motor operated valve will be replaced with a qualified motor prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 14

Plant ID: E11-MOV F009

Motorized Valve Actuator Located in the Containment

Limiterque Model SMB, AC Service, Class H Insulation

Service: Shutdown Cooling Suction Isolation

CORRECTIVE ACTION: The actuator and motor for this motor operated valve will be replaced with a qualified actuator and motor prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 15

Plant ID: E21-MOV F005A,B

Motorized Valve Actuator Located in the Reactor Building, Elev. 158' 0"

Limiterque Model SMB, AC Service, Class B Insulation

Service: Core Spray Pump Discharge Isolation

CORRECTIVE ACTION: The actuator and motor for this motor operated valve will be replaced with a qualified actuator and motor prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 15

Plant ID: E21-MOV F004A,B

Motorized Valve Actuator Located in the Reactor Building, Elev. 158' 0"

Limiterque Model SMB, AC Service, Class B Insulation

Service: Core Spray Pump Discharge Isolation

CORRECTIVE ACTION: The actuator and motor for this motor operated valve will be replaced with a qualified actuator and motor prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 16

Plant ID: E41-MOV F041

Motorized Valve Actuator Located in the HPCI Room

Limiterque Model SMB, DC Service, Class B Insulation

Service: HPCI Pump Suction Isolation from Torus

CORRECTIVE ACTION: The motor for this motor operated valve will be replaced with a qualified motor prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 16

Plant ID: E51-MOV F008

Motorized Valve Actuator Located in the Pipe Chase
Limitorque Model SMB, DC Service, Class B Insulation
Service: Steam Supply Isolation

CORRECTIVE ACTION: The motor for this motor operated valve will be replaced with a qualified motor prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 16

Plant ID: G31-MOV F004

Motorized Valve Actuator Located in the Reactor Building, Elev 158' 0"
Limitorque Model SMB, DC Service, Class B Insulation
Service: Reactor Water Cleanup Pump Suction Isolation

CORRECTIVE ACTION: The motor for this motor operated valve will be replaced with a qualified motor prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 19

Plant ID: E11-MOV F021A,B

Motorized Valve Actuator Located in the Reactor Water Cleanup Pump Room
Limitorque Model SMB, AC Service, Class F Insulation
Service: Containment Spray Discharge Isolation

CORRECTIVE ACTION: The actuator and motor for this motor operated valve will be replaced with a qualified actuator and motor prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 21

Plant ID: E41-MOV F001

Motorized Valve Actuator Located in the High Pressure Coolant Injection Room
Limitorque Model SMB, DC Service, Class B Insulation
Service: Turbine Steam Supply Isolation

CORRECTIVE ACTION: The motor for this motor operated valve will be replaced with a qualified motor prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 21

Plant ID: E41-MOV F012

Motorized Valve Actuator Located in the High Pressure Coolant Injection Room
Limitorque Model SMB, DC Service, Class B Insulation
Service: Minimum Flow Bypass

CORRECTIVE ACTION: The motor for this motor operated valve will be replaced with a qualified motor prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 21

Plant ID: E41-MOV F011

Motorized Valve Actuator Located in the High Pressure Coolant Injection Room
Limatorque Model SMB, DC Service, Class B insulation

Service: Test Bypass Valve to Condensate Storage

CORRECTIVE ACTION: The motor for this motor operated valve will be replaced with a qualified motor prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 70

Plant ID: T41-TIS N022A,B

Temperature Switch Located in the RCIC (SW) Corner Room
Honeywell Model T654A1560

Service: RCIC Pump Room Cooler

CORRECTIVE ACTION: The temperature indicating switch will be replaced with qualified PYCO temperature elements and qualified Sigma temperature indicating switches (located in the Main Control Room) during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 71

Plant ID: T41-TIS N019A,B

Temperature Switch Located in the HPCI Room
Honeywell Model T654A1560

Service: HPCI Pump Room Cooler

CORRECTIVE ACTION: The temperature indicating switch will be replaced with qualified PYCO temperature elements and qualified Sigma temperature indicating switches (located in the Main Control Room) during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 71

Plant ID: T41-TIS N020A,B

Temperature Switch Located in the SE Corner Room
Honeywell Model T654A1560

Service: RHR/Core Spray Pump Room Cooler

CORRECTIVE ACTION: The temperature indicating switch will be replaced with qualified PYCO temperature elements and qualified Sigma temperature indicating switches (located in the Main Control Room) during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 71

Plant ID: T41-TIS N021A,B

Temperature Switch Located in the NE Corner Room
Honeywell Model T654A1560

Service: RHR/Core Spray Pump Room Cooler

CORRECTIVE ACTION: The temperature indicating switch will be replaced with qualified PYCO temperature elements and qualified Sigma temperature indicating switches (located in the Main Control Room) during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 72

Plant ID: E41-PS N010

Pressure Switch Located in the HPCI Room

Static-O-Ring Model 6NAA21X10SITT

Service: HPCI Pump Suction Low Pressure Panel H21-P014

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 72

Plant ID: E41-PS N012A,B,C,D

Pressure Switch Located in the HPCI Room

Static-O-Ring Model 6NAA2X10SITT

Service: Turbine Exhaust Ventilation

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 72

Plant ID: E41-PS N017A,B

Pressure Switch Located in the HPCI Room

Static-O-Ring Model 5NAA3X10SITT

Service: HPCI Turbine Exhaust High Pressure Panel H21-P014

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 73

Plant ID: C71-PS N002A,B,C,D

Pressure Switch Located in the Reactor Building, Elev. 158' 0"

Static-O-Ring Model 12NBB4NX

Service: Primary Containment High Pressure

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 74

Plant ID: E41-DPIS N005

Differential Pressure Indicating Switch Located in the Reactor Building, Elev. 130' 0"

Barton Model 288

Service: HPCI Steam Line High Pressure Panel H21-P036

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 74

Plant ID: E41-DPIS N004

Differential Pressure Indicating Switch Located in the Reactor Building, Elev. 130' 0"

Barton Model 288

Service: HPCI Steam Line Low Pressure Panel H21-P016

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 75

Plant ID: E11-PS N016B,D

Pressure Switch Located in the Northeast Corner Room

Static-O-Ring Model 5NAA3X10SITT

Service: Pump Discharge Pressure Panel H21-P021

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 75

Plant ID: E11-PS N020B,D

Pressure Switch Located in the Northeast Corner Room

Static-O-Ring Model 5NAA3X10SITT

Service: Pump Discharge Pressure Panel H21-P021

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 75

Plant ID: E21-PS N008A,B

Pressure Switch Located in the Northeast Corner Room

Static-O-Ring Model 5NAA3X10SITT

Service: Core Spray Pump Discharge

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 76

Plant ID: B21-DPIS N006A,B,C,D

D/P Indicating Switch Located in the Reactor Building, Elev. 130' 0"

Barton Model 288

Service: Main Steam Line High Flow

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 76

Plant ID: B21-DPIS N009A,B,C,D

D/P Indicating Switch Located in the Reactor Building, Elev. 130' 0"

Barton Model 288

Service: Main Steam Line High Flow

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 76

Plant ID: B21-DPIS N008A,B,C,D

D/P Indicating Switch Located in the Reactor Building, Elev. 130' 0"

Barton Model 288

Service: Main Steam Line High Flow

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 76

Plant ID: B21-DPIS N007A,B,C,D

D/P Indicating Switch Located in the Reactor Building, Elev. 130' 0"

Barton Model 288

Service: Main Steam Line High Flow

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 76

Plant ID: B21-PS N021C

Pressure Switch Located in the Reactor Building, Elev. 130' 0"

Barton Model 288

Service: Vessel Pressure

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 76

Plant ID: B21-PS N021B

Pressure Switch Located in the Reactor Building, Elev. 158' 0"

Barton Model 288

Service: Vessel Pressure

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 76

Plant ID: E51-DPIS N018

D/P Indicating Switch Located in the Reactor Building, Elev. 130' 0"

Barton Model 288

Service: Steam Line High Differential Pressure Panel H21-P038

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 76

Plant ID: E51-DPIS N017

D/P Indicating Switch Located in the Reactor Building, Elev. 130' 0"

Barton Model 288

Service: Steam Line High Differential Pressure Panel H21-P035

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 77

Plant ID: E11-PS N010A,B,C,D

Pressure Switch Located in the Reactor Building, Elev. 158' 0"

Static-O-Ring Model 12NAA5X9TT

Service: Automatic Initiation Drywell High Pressure

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 77

Plant ID: E11-PS N011A,B,C,D

Pressure Switch Located in the Reactor Building, Elev. 158' 0"

Static-O-Ring Model 12NAA5X9TT

Service: Automatic Initiation Drywell High Pressure

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 78

Plant ID: B21-LITS N037

Level Indicating Switch Located in the Reactor Building, Elev. 130' 0"

Yarway Model 4418CE

Service: Level in Shroud-RHR Initiation Panel H21-P009

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 78

Plant ID: B21-LIS NO42A,B

Level Indicating Switch Located in the Reactor Building, Elev. 158' 0"

Yarway Model 4418C

Service: Automatic Blowdown Permissive

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 78

Plant ID: B21-LIS NO24A,B

Level Indicating Switch Located in the Reactor Building, Elev. 158' 0"

Yarway Model 4418C

Service: Scram-Primary Containment Isolation Panel H21-P004

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 78

Plant ID: B21-LIS NO25A,B

Level Indicating Switch Located in the Reactor Building, Elev. 158' 0"

Yarway Model 4418C

Service: Scram-Primary Containment Isolation Panel H21-P005

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 78

Plant ID: B21-LITS NO26A,B

Level Indicating Switch Located in the Reactor Building, Elev. 158' 0"

Yarway Model 4418CE

Service: Reactor Water Level - RCIC

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 78

Plant ID: B21-LIS N031A,B,C,D

Level Indicating Switch Located in the Reactor Building, Elev. 158' 0"

Yarway Model 4418C

Service: Initiate KCIC, HPCI & RHR

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 78

Plant ID: B21-LITS N036

Level Indicating Switch Located in the Reactor Building, Elev. 130' 0"

Yarway Model 4418CE

Service: Level in Shroud-RHR Initiation Panel H21-P010

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 79

Plant ID: E11-DPIS N021A,B

D/P Indicating Switch Located in the Northeast and Southeast Corner Rooms

Barton Model 289

Service: RHR Pump Discharge Minimum Flow

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 79

Plant ID: E21-FIS N006A,B

Flow Indicating Switch Located in the Northeast and Southeast Corner Rooms

Barton Model 289

Service: Pump Outlet Flow

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 79

Plant ID: E41-FS N006

Flow Switch Located in the HPCI Room

Barton Model 289

Service: Pump Discharge High/Low Flow Panel H21-P104

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 80

Plant ID: B21-LIS N017A,B,C,D

Level Indicating Switch Located in the Reactor Building, Elev. 158' 0"

Barton Model 288A

Service: HPCI & RCIC Turbine

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 81

Plant ID: B21-PS N021A,E

Pressure Switch Located in the Reactor Building, Elev. 158' 0"

Barksdale Model B2TM12SS

Service: Vessel Pressure

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 81

Plant ID: B21-PS N021D,F

Pressure Switch Located in the Reactor Building, Elev. 130' 0"

Barksdale Model B2TM12SS

Service: Vessel Pressure

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 82

Plant ID: E41-PS N027

Pressure Switch Located in the HPCI Room

Barksdale Model B2TM12SS

Service: Pump Discharge Pressure Panel H21-P014

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 82

Plant ID: E11-PS N020A,C

Pressure Switch Located in the Southeast Corner Room

Barksdale Model B2TM12SS

Service: Pump Discharge Pressure

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 82

Plant ID: E11-PS N016A,C

Pressure Switch Located in the Southeast Corner Room

Barksdale Model B2TM12SS

Service: Pump Discharge Pressurizer

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 82

Plant ID: E21-PS N009A,B

Pressure Switch Located in the Northeast and Southeast Corner Rooms

Barksdale Model B2TM12SS

Service: Core Spray Pump Discharge

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 82

Plant ID: E41-PS N001A,B,C,D

Pressure Switch Located in the Reactor Building, Elev. 130' 0"

Barksdale Model B2TM12SS

Service: HPCI Low Pressure Isolation

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 82

Plant ID: E51-PS N019A,B,C,D

Pressure Switches Located in the Reactor Building, Elev. 130' 0"

Barksdale Model B2TM12SS

Service: Steam Line Low Pressure

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 83

Plant ID: E41-LS N015A,B

Level Switch Located in the Torus Room

Robertshaw Model 83842A2

Service: Suppression Pool Level

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 84

Plant ID: T41-FS N005A,B

Flow Switch Located in the HPCI Room

Dietz Model 130DIMA5

Service: HPCI Pump Room Cooler

CORRECTIVE ACTION: Georgia Power Company is performing a documentation search to obtain additional data on the diaphragm material in order to address the effects of aging and radiation. The documentation search and any required analysis will be completed by no later than the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 84

Plant ID: T41-FS N004A,B

Flow Switch Located in the RCIC (SW) Corner Room

Dietz Model 130DIMA5

Service: RCIC Pump Room Cooler

CORRECTIVE ACTION: Georgia Power Company is performing a documentation search to obtain additional data on the diaphragm material in order to address the effects of aging and radiation. The documentation search and any required analysis will be completed by no later than the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 84

Plant ID: T41-FS N003A,B

Flow Switch Located in the Northeast Corner Room

Dietz Model 130DIMA5

Service: RHR/Core Spray Pump Room Cooler

CORRECTIVE ACTION: Georgia Power Company is performing a documentation search to obtain additional data on the diaphragm material in order to address the effects of aging and radiation. The documentation search and any required analysis will be completed by no later than the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 84

Plant ID: T41-FS N002A,B

Flow Switch Located in the Southeast Corner Room

Dietz Model 130DIMA5

Service: RHR/Core Spray Pump Room Cooler

CORRECTIVE ACTION: Georgia Power Company is performing a documentation search to obtain additional data on the diaphragm material in order to address the effects of aging and radiation. The documentation search and any required analysis will be completed by no later than the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 84

Plant ID: T46-FS N011A,B

Flow Switch Located in the Reactor Building, Elev. 164' 0"

Dietz Model 130DIMA5

Service: Standby Gas Treatment Fan

CORRECTIVE ACTION: Georgia Power Company is performing a documentation search to obtain additional data on the diaphragm material in order to address the effects of aging and radiation. The documentation search and any required analysis will be completed by no later than the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 85

Plant ID: T48-DPS N210

D/P Switch Located in the Torus Room

Barksdale Model DPD2TA3

Service: Primary Containment Purge Vacuum Breakers

CORRECTIVE ACTION: The switch will be replaced with a qualified Rosemount Type 1153 transmitter (located in the Torus Room) and a Foxboro trip card (located in the Main Control Room) during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 85

Plant ID: T48-DPS N211

D/P Switch Located in the Torus Room

Barksdale Model DPD2TA3

Service: Primary Containment Purge Vacuum Breakers

CORRECTIVE ACTION: The switch will be replaced with a qualified Rosemount Type 1153 transmitter (located in the Torus Room) and a Foxboro trip card (located in the Main Control Room) during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 86

Plant ID: E51-PS N012A,B,C,D

Pressure Switch Located in the RCIC (SW)

Barksdale Model D2HA150SS

Service: Turbine Exhaust Diaphragm

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 94

Plant ID: E41-C002

Turbine Located in the HPCI Room

Terry Model CCS

Service: HPCI System

CORRECTIVE ACTION: An analysis, of the equipment associated with the HPCI turbine and required to mitigate the consequences of an accident, was performed to determine the equipment for which qualification could be established. Equipment, whose qualification cannot be established, will be replaced or relocated during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 97

Plant ID: Panel Board in MCC R24-S011/S012

Panel I&C Located in the Reactor Building, Elev. 130' 0"

Westinghouse Model WEHB CKT BKR EHB

Service: Power for P33-P001A/B only

CORRECTIVE ACTION: The power distribution for the replacement H₂ and O₂ analyzers (see TER item No. 99) will be provided by transformers and panelboards located in a mild environment. These transformers and panel boards will be replaced during the Unit 1, 1984 Refueling Outage. The transformers under TER Equipment Item No. 101 and the panel boards under TER Equipment Item No. 97 will not be required.

TER EQUIPMENT ITEM NO.: 98

Plant ID: T48-HOV F112A,B

Hydraulic Operated Valve Located in the Reactor Building, Elev. 130' 0"

Fisher Controls Model 350

Service: Nitrogen Makeup Control

CORRECTIVE ACTION: The hydraulic operated valve (HOV) will be replaced with a Dragon Needle valve during the Unit 1, 1984 Refueling Outage. The valve and the instruments used in the flow control system for the valve will be deleted from the I. E. Bulletin 79-01B equipment list after replacement of the valve because the needle valve is mechanical equipment, not Class 1E equipment.

TER EQUIPMENT ITEM NO.: 99

Plant ID: P33-P001A,B

Hydrogen-Oxygen Analyzer Located in the Reactor Building, Elev. 158' 0"

Hays Model E632II O₂ Analyzer, SH643D H₂ Analyzer

Service: Primary Containment Atmosphere H₂ and O₂ Analyzer

CORRECTIVE ACTION: The H₂ and O₂ analyzer will be replaced with a qualified Comsip Type K-IV H₂ and O₂ analyzer during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 101

Plant ID: R11-S039/R11-S040

Transformer Located in the Reactor Building, Elev. 130' 0"

Sorgel Model Serial No. 101023-5

Service: Power for P33-P001A/B Only

CORRECTIVE ACTION: The power distribution for the replacement H₂ and O₂ analyzers (see TER item No. 99) will be provided by transformers and panelboards located in a mild environment. These transformers and panelboards will be replaced during the Unit 1, 1984 Refueling Outage. The transformers under TER Equipment Item No. 101 and the panel boards under TER Equipment Item No. 97 will not be required.

TER EQUIPMENT ITEM NO.: 107

Plant ID: E11-FT N015A,B

Flow Transmitter Located in the Northeast/Southeast Corner Rooms

Barton Model 368

Service: RHR Flow

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 108

Plant ID: C32-PT N005A,B

Pressure Transmitter Located in the Reactor Building, Elev. 158' 0"

GE/MAC Model 551032GKZZ2556

Service: Reactor Pressure

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 109

Plant ID: B21-LT N027

Level Transmitter Located in the Reactor Building, Elev. 158' 0"

GE/MAC Model 555111BDAA3PDF

Service: Vessel Water Level Wide Range

CORRECTIVE ACTION: The transmitter will be replaced with a qualified Barton transmitter as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 110

Plant ID: E41-FT N008

Flow Transmitter Located in the HPCI Room

GE/MAC Model 555111BDAA4WAL

Service: Pump Discharge flow Panel H21-P014

CORRECTIVE ACTION: The transmitter will be replaced with a qualified Barton transmitter as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 110

Plant ID: E21-FT N003A,B

Flow Transmitter Located in the HPCI Room

Bailey Meter Model 555111BDAA4WAL

Service: Pumps Outlet Flow

CORRECTIVE ACTION: The transmitter will be replaced with a qualified Barton transmitter as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 112

Plant ID: T48-PT N001

Pressure Transmitter Located in the Reactor Building, Elev. 130' 0"

GE/MAC Model 551

Service: N₂ Makeup to Drywell and Torus

CORRECTIVE ACTION: The transmitter will be replaced with a qualified Rosemount Type 1153 transmitter during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 114

Plant ID: E11-DPT N002A,B

D/P Transmitter Located in the Northeast and Southeast Corner Rooms

Rosemount Model 1151DP7B22MB

Service: Heat Exchanger Shell to Tube

CORRECTIVE ACTION: The transmitter will be replaced with a qualified Barton transmitter as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 115

Plant ID: G31-FT N012

Flow Transmitter Located in the Reactor Building, Elev. 158' 0"

GE/MAC Model 555111BCAA4WAK

Service: Blowdown Flow Panel H21-P002

CORRECTIVE ACTION: The transmitter will be replaced with a qualified Barton transmitter as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 115

Plant ID: G31-FT N036

Flow Transmitter Located in the Reactor Building, Elev. 158' 0"

GE/MAC Model 555111BCAA4WAK

Service: Inlet Flow Panel H21-P002

CORRECTIVE ACTION: The transmitter will be replaced with a qualified Barton transmitter as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 115

Plant ID: G31-FT N041

Flow Transmitter Located in the Reactor Building, Elev. 158' 0"

GE/MAC Model 555111BCAA4WAK

Service: Outlet Flow Panel H21-P002

CORRECTIVE ACTION: The transmitter will be replaced with a qualified Barton transmitter as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 118

Plant ID: T48-E/S K011A,B

Power Supply Located in the Reactor Building, Elev. 130' 0"

Brooks Model 5523DX

Service: Nitrogen Makeup Control

CORRECTIVE ACTION: The hydraulic operated valve (HOV) will be replaced with a Dragon needle valve during the Unit 1, 1984 Refueling Outage. The valve and the instruments used in the flow control system for the valve will be deleted from I. E. Bulletin 79-01B equipment list after replacement of the valve because the needle valve is mechanical equipment, not Class 1E equipment.

TER EQUIPMENT ITEM NO.: 119

Plant ID: T48-FIT N014A,B

Flow Indicating Transmitter Located in the Reactor Building, Elev. 130' 0"

Brooks Model 3611

Service: Nitrogen Makeup Control

CORRECTIVE ACTION: The hydraulic operated valve (HOV) will be replaced with a Dragon needle valve during the Unit 1, 1984 Refueling Outage. The valve and the instruments used in the flow control system for the valve will be deleted from I. E. Bulletin 79-01B equipment list after replacement of the valve because the needle valve is mechanical equipment, not Class 1E equipment.

TER EQUIPMENT ITEM NO.: 120

Plant ID: T48-E/S K001

Power Supply Located in the Reactor Building, Elev. 158' 0"

GE Model 570062FAAC1

Service: N₂ Makeup to Drywell and Torus

CORRECTIVE ACTION: The power supply will be replaced with a qualified Foxboro power distribution module during the Unit 1, 1984 Refueling Outage. The qualified power distribution module will be located in the Main Control Room which is a non-harsh environment. Therefore, this power supply will then be deleted from the I.E. Bulletin 79-01B equipment list.

TER EQUIPMENT ITEM NO.: 122

Plant ID: T48-TE N009A,B,&D

Temperature Element Located in the Torus Room

Rosemount Model 10414601

Service: Torus Water Temperature

CORRECTIVE ACTION: The temperature element will be replaced with a qualified PYCO temperature element during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 123
Plant ID: T48-TE NC09C
Temperature Element Located in the Torus Room
Rosemount Model 104AGP-4
Service: Torus Water Temperature

CORRECTIVE ACTION: The temperature element will be replaced with a qualified PYCO temperature element during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 124
Plant ID: T47-TE N008
Temperature Element Located in the Containment
Rosemount Model 10414591
Service: Ambient Containment Temperature

CORRECTIVE ACTION: The temperature element will be replaced with a qualified PYCO temperature element during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 124
Plant ID: T47-TE N005
Temperature Element Located in the Containment
Rosemount Model 10414591
Service: Ambient Containment Temperature

CORRECTIVE ACTION: The temperature element will be replaced with a qualified PYCO temperature element during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 125
Plant ID: B21-TS N010A,B,C,D
Temperature Switch Located in the Pipe Chase
Fenwall Model 17002-40
Service: Main Steam Line Leak Detector

CORRECTIVE ACTION: The temperature switch will be replaced with a qualified Weed temperature element and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 125
Plant ID: B21-TS N011A,B,C,D
Temperature Switch Located in the Pipe Chase
Fenwall Model 17002-40
Service: Main Steam Line Leak Detector

CORRECTIVE ACTION: The temperature switch will be replaced with a qualified Weed temperature element and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 125
Plant ID: B21-TS N012A,B,C,D
Temperature Switch Located in the Pipe Chase
Fenwall Model 17002-40
Service: Main Steam Line Leak Detector

CORRECTIVE ACTION: The temperature switch will be replaced with a qualified Weed temperature element and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 125
Plant ID: B21-TS N013A,B,C,D
Temperature Switch Located in the Pipe Chase
Fenwall Model 17002-40
Service: Main Steam Line Leak Detector

CORRECTIVE ACTION: The temperature switch will be replaced with a qualified Weed temperature element and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 126
Plant ID: E51-TE N026B,D
Temperature Element Located in the Northeast Corner Room
PYCO Model N145C3224P1
Service: Steam Leak Detector

CORRECTIVE ACTION: The temperature element will be replaced with a qualified Weed temperature element as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 126
Plant ID: E41-TE N030A,B
Temperature Element Located in the HPCI Room
PYCO Model N145C3224P1
Service: Steam Leak Detector

CORRECTIVE ACTION: The temperature element will be replaced with a qualified Weed temperature element as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 126
Plant ID: E41-TE N046A,B
Temperature Element Located in the Pipe Penetration Room
PYCO Model N145C3224P1
Service: Steam Leak Detector

CORRECTIVE ACTION: The temperature element will be replaced with a qualified Weed temperature element as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 127
Plant ID: E51-TE N025A,B,C,D
Temperature Element Located in the Torus Room
PYCO Model N145C3224P1
Service: Steam Leak Detector

CORRECTIVE ACTION: The temperature element will be replaced with a qualified Weed temperature element as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 128
Plant ID: E51-TE N027A,B,C,D
Temperature Element Located in the Reactor Building, Elev. 130' 0"
PYCO Model N145C3224P1
Service: Steam Leak Detector

CORRECTIVE ACTION: The temperature element will be replaced with a qualified Weed temperature element as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 128
Plant ID: G31-TE N016A,B,D,E
Temperature Element Located in the RWCU Hx Room
PYCO Model N145C3224P1
Service: RWCU System Leak Detector

CORRECTIVE ACTION: The temperature element will be replaced with a qualified Weed temperature element as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 128
Plant ID: G31-TE N022A,D
Temperature Element Located in the RWCU Hx Room
PYCO Model N145C3224P1
Service: RWCU System Leak Detector

CORRECTIVE ACTION: The temperature element will be replaced with a qualified Weed temperature element as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 128
Plant ID: G31-TE N022B,C,E,F
Temperature Element Located in the RWCU Pump Room
PYCO Model N145C3224P1
Service: RWCU System Leak Detector

CORRECTIVE ACTION: The temperature element will be replaced with a qualified Weed temperature element as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 128

Plant ID: G31-TE N023A,D

Temperature Element Located in the RWCU Hx Room

PYCO Model N145C3224P1

Service: RWCU System Leak Detector

CORRECTIVE ACTION: The temperature element will be replaced with a qualified Weed temperature element as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 128

Plant ID: G31-TE N023B,C,E,F

Temperature Element Located in the Reactor Building, Elev. 158' 0"

PYCO Model N145C3224P1

Service: RWCU System Leak Detector

CORRECTIVE ACTION: The temperature element will be replaced with a qualified Weed temperature element as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 129

Plant ID: E51-TE N026A,C

Temperature Element Located in the Southwest Corner Room

PYCO Model N145C3224P1

Service: Steam Leak Detection

CORRECTIVE ACTION: The temperature element will be replaced with a qualified Weed temperature element as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 129

Plant ID: E51-TE N021A,B

Temperature Element Located in the Southwest Corner Room

PYCO Model N145C3224P1

Service: Steam Leak Detection

CORRECTIVE ACTION: The temperature element will be replaced with a qualified Weed temperature element as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 129

Plant ID: E51-TE N022A,B

Temperature Element Located in the Southwest Corner Room

PYCO Model N145C3224P1

Service: Steam Leak Detection

CORRECTIVE ACTION: The temperature element will be replaced with a qualified Weed temperature element as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 129

Plant ID: E51-TE N023A,B

Temperature Element Located in the Southwest Corner Room

PYCO Model N145C3224P1

Service: Steam Leak Detection

CORRECTIVE ACTION: The temperature element will be replaced with a qualified Weed temperature element as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 144

Plant ID: Instrument Cables

Electrical Cables Located Outside the Drywell

Manufacturer and Model Not Known

Service: GE Panel Wiring

CORRECTIVE ACTION: The existing wire will be replaced with qualified wire during installation of the Analog Transmitter Trip System, which is scheduled for completion during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 148

Plant ID: N3-04

Electrical Cable, Instrument Located Outside the Drywell

Boston Insulated Wire 4/C #16 AWG

Service: Instrumentation

CORRECTIVE ACTION: The cable will be replaced with qualified cable prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 154

Plant ID: H1-16

Electrical Cable, Instrument Located in the Reactor Building, Elev. 130' 0"

Okonite Model 600V PVC

Service: Instrumentation P33-P001A/B Only

CORRECTIVE ACTION: The cable will be replaced with qualified cable prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 178

Plant ID: E11-MOV F008

Motorized Valve Actuator Located in the Pipe Penetration Room

Limatorque Model SMF, DC Service, Class B Insulation

Service: Shutdown Cooling Suction Isolation

CORRECTIVE ACTION: The motor for this motor operated valve will be replaced with a qualified motor prior to or during the Unit 1, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO.: 181

Plant ID: T46-DPT N005B,C

D/P Transmitter Located in the Reactor Building, Elev. 130' 0"

Rosemount Model 1151DP3B22LMMB

Service: Pressure Reactor Building to Atmosphere Pressure

CORRECTIVE ACTION: The transmitter will be replaced with qualified Rosemount Type 1153 transmitter during the Unit 1, 1984 Refueling Outage.

The following equipment was not addressed in Franklin Research Center's Technical Evaluation Report. However, the equipment is part of Georgia Power Company's I. E. Bulletin 79-01B Open Item List.

Plant ID: G31-TE N016C,F
Temperature Element Located in the RWCU Pump Room
PYCO Model N145C3224P1
Service: RWCU System Leak Detector

CORRECTIVE ACTION: The temperature element will be replaced with a qualified Weed temperature element as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage.

Plant ID: P52-PIS N021
Pressure Indicating Switch Located in the Reactor Building, Elev. 130' 0"
Ashcroft Model 1377TA
Service: Instrument Air Pressure

CORRECTIVE ACTION: The switch will be replaced with a qualified Rosemount Type 1153 transmitter and a Foxboro trip card (located in the Main Control Room) During the Unit 1, 1984 Refueling Outage.

Plant ID: E41-MOV F006
Motorized Valve Actuator Located in the Torus
Limitorque Model SMB, DC Service, Class B Insulation
Service: HPCI Pump Discharge Isolation

CORRECTIVE ACTION: The motor for this motor operated valve will be replaced with a qualified motor prior to or during the Unit 1, 1984 Refueling Outage.

Plant ID: E41-MOV F007
Motorized Valve Actuator Located in the HPCI Room
Limitorque Model SMB, DC Service, Class B Insulation with Stearns Brake
Service: HPCI Pump Discharge Isolation

CORRECTIVE ACTION: The motor for this motor operated valve will be replaced with a qualified motor prior to or during the Unit 1, 1984 Refueling Outage.

The following equipment was not addressed in Franklin Research Center's Technical Evaluation Report. However, the equipment is part of Georgia Power Company's I. E. Bulletin 79-01B Open Item Equipment List.

Plant ID: B31-PS N018A,B

Pressure Switch Located in the Reactor Building Elev. 130' 0"

Barksdale Model B2T-M12SS

Service: Recirculation Suction Pressure

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 1, 1984 Refueling Outage. Justification for continued operation was provided by Georgia Power Company in the I.E. Bulletin 79-01B status update dated January 3, 1983 and is still applicable.

GEORGIA POWER COMPANY
EDWIN I. HATCH NUCLEAR PLANT - UNIT 2

DOCKET: 50-366

ENVIRONMENTAL QUALIFICATION OF CLASS 1E EQUIPMENT
MAY 20, 1983 RESPONSE TO NRC SAFETY EVALUATION REPORT
AND RULE 10CFR50.49

REVISION 0, MAY 20, 1983

GEORGIA POWER COMPANY
EDWIN I. HATCH NUCLEAR PLANT - UNIT 2

DOCKET: 50-366

MAY 20, 1983 RESPONSE TO NRC SAFETY EVALUATION REPORT
AND RULE 10CFR50.49

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SECTION A

INTRODUCTION

SCOPE

This submittal is provided by Georgia Power Company as the May 20, 1983 Response to the Nuclear Regulatory Commission (NRC) Safety Evaluation Report (SER) for Environmental Qualification of Safety Related Electrical Equipment (I.E. Bulletin 79-01B, and the Rulemaking 10 CFR 50.49 for Edwin I. Hatch Nuclear Plant - Unit 2.

BACKGROUND

On October 31, 1980, Georgia Power Company submitted to the NRC an Environmental Qualification submittal in response to I. E. Bulletin 79-01B for Edwin I. Hatch Nuclear Plant - Unit 2.

On February 1, 1981, Georgia Power Company submitted revision 1 of the Environmental Qualification submittal in response to I. E. Bulletin 79-01B. This revision included a response to Supplement B of the bulletin regarding TMI Action Plan Equipment and Equipment required to achieve to I. E. Bulletin 79-01B.

On February 17, 1981, Georgia Power Company submitted revision 2 of the Environmental Qualification submittal in response to I. E. Bulletin 79-01B.

Based on review of Georgia Power Company's submittals conducted by Franklin Research Center (FRC), the NRC issued a Safety Evaluation Report (SER) on June 16, 1981.

Georgia Power Company provided a response to the SER as part of revision 3 of the Environmental Qualification submittal to I. E. Bulletin 79-01B issued on September 14, 1981.

On February 10, 1982, Georgia Power Company provided the NRC with additional qualification information. The NRC requested this information in order for FRC to complete the review of the Environmental Qualification submittal provided by Georgia Power Company.

The Safety Evaluation Report (SER) together with a Technical Evaluation Report (TER), was transmitted to Georgia Power Company by letter, dated March 31, 1983, from Mr. John F. Stolz, Chief Operating Reactors Branch No. 4, Division of Licensing to Mr. J. T. Brinkham, Jr., Vice President Nuclear-Generation Georgia Power Company.

On May 6, 1983, Georgia Power Company submitted the required Thirty (30) Day Response to the NRC Safety Evaluation Report.

SUBMITTAL

This submittal is comprised of four (4) major sections; Section A - Introduction, Section B - Environmentally Qualified Equipment List, Section C - Equipment Requiring Qualification Clarifications, and Section D - Open Item Equipment List.

Section B of this submittal provides a list of safety related equipment which Georgia Power Company considers environmentally qualified.

Section C of this submittal provides clarifications and additional information required to address the NRC discrepancies listed for equipment in NRC Qualification Category II.c. Clarifications for equipment in NRC Qualification Categories I.b, II.a, and II.b were provided in the Thirty (30) Day Response to the NRC Safety Evaluation Report.

Section D of this submittal provides a list of safety related equipment which Georgia Power Company considers to have open items concerning Environmental Qualification. A Corrective Action is provided for each equipment item included in this list.

Justifications for Continued Operation for the Equipment having open items concerning qualification were submitted in the Thirty (30) Day Response to the Safety Evaluation Report or were included in previous I. E. Bulletin 79-01B submittals and reaffirmed in the Thirty (30) Day Response.

DISCUSSIONS CONCERNING RULEMAKING 10 CFR 50.49

Georgia Power Company's previous I.E. Bulletin 79-01B submittals have been reviewed against the requirements of paragraphs (a) and (b) of 10 CFR 50.49 and it is concluded that Georgia Power Company's program for Qualifying Electrical Equipment includes all harsh environment equipment (non-safety related as well as safety related equipment) that is relied upon to remain functional during and following a High Energy Line Break (HELB) or Loss of Coolant Accident (LOCA).

A systematic review of the control and power circuit for each component which is associated with equipment covered in I.E. Bulletin 79-01B was completed. Each circuit was reviewed to assure that the failure of any component within the circuit, which is located in a harsh environment, could not prevent the I.E. Bulletin 79-01B component from serving its safety related function.

Post-accident monitoring Equipment was included in Georgia Power Company's I.E. Bulletin 79-01B submittals to the extent that it was identified using the methodology described above. Georgia Power Company is currently negotiating a schedule with the NRC staff for responding to Supplement 1 to NUREG-0737 (Reference Generic Letter 82-33). A portion of the response to the supplement will compare Hatch Nuclear Plant - Unit 1 with the "requirements" of Regulatory Guide 1.97, Revision 2 and will justify any exceptions to the Regulatory Guide which are taken. In those cases where deviations cannot be justified, the Regulatory Guide "requirements" will be met. If the instrument is located in a harsh environment and installed prior to May 23, 1980, qualification of the instrument will be evaluated against the DOR Guidelines. If the instrument was installed after May 23, 1980, qualification will be evaluated against NUREG-0588, Category I or the 10CFR50.48 rule as applicable.

SECTION B

ENVIRONMENTALLY QUALIFIED EQUIPMENT LIST

INTRODUCTION

This section provides, per the requirements of 10CFR 50.49, Paragraph (g), a list of electrical equipment important to safety, which Georgia Power Company considers environmentally qualified.

The environmentally qualified equipment is identified by the TER Equipment Item Number (if applicable) and associated Plant Identification Number, followed by the Equipment Location, Equipment Description and the Equipment Service.

TABLE B-1

ENVIRONMENTALLY QUALIFIED EQUIPMENT LIST

TER EQUIPMENT ITEM NO: 1

Plant ID: 2E11-MOV F049

Motorized Valve Actuator Located in the Torus Room

Limitorque SMB, DC Service, Class B Insulation

Service: Reactor Water Discharge Isolation Valve

TER EQUIPMENT ITEM NO: 2

Plant ID: 2E11-MOV F024A,B

Motorized Valve Actuator Located in the Torus Room

Limitorque Model SMB, AC Service, Class RH Insulation

Service: RHR Testline Valve

TER EQUIPMENT ITEM NO: 3

Plant ID: 2E11-MOV F023

Motorized Valve Actuator Located in the Reactor Building, Elev. 185'0"

Limitorque Model SMB, DC Service, Class H Insulation

Service: Vessel Head Spray Isolation Valve

TER EQUIPMENT ITEM NO: 4

Plant ID: 2E41-MOV F003

Motorized Valve Actuator Located in the Pipe Penetration Room

Limitorque Model SMB, DC Service, Class H Insulation

Service: Steam Supply Outboard Isolation Valve

TER EQUIPMENT ITEM NO: 9

Plant ID: 2G31-MOV F004

Motorized Valve Actuator Located in the Reactor Building, Elev. 158'0"

Limitorque Model SMB, DC Service, Class H Insulation

Service: Downstream Isolation Valve

TER EQUIPMENT ITEM NO: 12

Plant ID: 2E11-MOV F017A,B

Motorized Valve Actuator Located in the Pipe Penetration Room

Limitorque Model SMB, AC Service, Class RH Insulation

Service: LPCI Discharge Valve

TER EQUIPMENT ITEM NO: 13

Plant ID: 2E11-MOV F009

Motorized Valve Actuator Located in the Containment

Limitorque Model SMB (SB, Size 2), AC Service, Class RH Insulation

Service: Shutdown Cooling Isolation Valve

TER EQUIPMENT ITEM NO: 13

Plant ID: 2E41-MOV F002

Motorized Valve Actuator Located in the Containment

Limitorque Model SMB (SB, Size 2), AC Service, Class RH Insulation

Service: Steam Line Isolation

TER EQUIPMENT ITEM NO: 14

Plant ID: 2B21-MOV F019

Motorized Valve Actuator Located in the Pipe Chase
Limitorque Model SMB, DC Service, Class H Insulation
Service: Main Steam Line Isolation

TER EQUIPMENT ITEM NO: 14

Plant ID: 2E51-MOV F008

Motorized Valve Actuator Located in the Pipe Chase
Limitorque Model SMB, DC Service, Class H Insulation
Service: Steam Supply Outboard Isolation Valve

TER EQUIPMENT ITEM NO: 15

Plant ID: 2E41-MOV F111

Motorized Valve Actuator Located in the Torus Room
Limitorque Model SMB, AC Service, Class B Insulation
Service: Vacuum Breaker Isolation

TER EQUIPMENT ITEM NO: 15

Plant ID: 2E41-MOV F104

Motorized Valve Actuator Located in the Torus Room
Limitorque Model SMB, AC Service, Class B Insulation
Service: Vacuum Breaker Isolation

TER EQUIPMENT ITEM NO: 17

Plant ID: 2E41-MOV F001

Motorized Valve Actuator Located in the HPCI Room
Limitorque Model SMB, DC Service, Class B Insulation
Service: System Isolation Valve

TER EQUIPMENT ITEM NO: 17

Plant ID: 2E41-MOV F041

Motorized Valve Actuator Located in the HPCI Room
Limitorque Model SMB, DC Service, Class B Insulation
Service: Pump Suction from Suppression Pool

TER EQUIPMENT ITEM NO: 17

Plant ID: 2E41-MOV F059

Motorized Valve Actuator Located in the HPCI Room
Limitorque Model SMB, DC Service, Class B Insulation
Service: Booster Pump Discharge to Barometric Condenser

TER EQUIPMENT ITEM NO: 17

Plant ID: 2E41-MOV F007

Motorized Valve Actuator Located in the HPCI Room
Limitorque Model SMB, DC Service, Class B Insulation
Service: HPCI Pump Outboard Discharge Valve

TER EQUIPMENT ITEM NO: 18

Plant ID: 2E11-MOV F011A,B

Motorized Valve Actuator Located in the Northeast and Southeast Corner Rooms

Limatorque Model SMB, AC Service, Class B Insulation

Service: RHR HX A&B to Core Spray

TER EQUIPMENT ITEM NO: 18

Plant ID: 2E11-MOV F026A,B

Motorized Valve Actuator Located in the Northeast and Southeast Corner Rooms

Limatorque Model SMB, AC Service, Class B Insulation

Service: RHR HX A&B to RCIC

TER EQUIPMENT ITEM NO: 18

Plant ID: 2E11-MOV F003B

Motorized Valve Actuator Located in the Northeast and Southeast Corner Rooms

Limatorque Model SMB, AC Service, Class B Insulation

Service: HX Discharge

TER EQUIPMENT ITEM NO: 18

Plant ID: 2E11-MOV F048A,B

Motorized Valve Actuator Located in the Northeast and Southeast Corner Rooms

Limatorque Model SMB, AC Service, Class B Insulation

Service: RHR HX A&B Bypass Valve

TER EQUIPMENT ITEM NO: 18

Plant ID: 2E11-MOV F004A,B,C,D

Motorized Valve Actuator Located in the Northeast and Southeast Corner Rooms

Limatorque Model SMB, AC Service, Class B Insulation

Service: RHR Pump C002A,B,C,D Suction Valve

TER EQUIPMENT ITEM NO: 18

Plant ID: 2E11-MOV F006B

Motorized Valve Actuator Located in the Northeast and Southeast Corner Rooms

Limatorque Model SMB, AC Service, Class RH Insulation

Service: Shut Down Cooling Suction Isolation Valve

TER EQUIPMENT ITEM NO: 18

Plant ID: 2E11-MOV F007A,B

Motorized Valve Actuator Located in the Northeast and Southeast Corner Rooms

Limatorque Model SMB, AC Service, Class B Insulation

Service: Pump C002A,B,C,D Minimum Flow Bypass

TER EQUIPMENT ITEM NO: 18

Plant ID: 2E11-MOV F006A,C,D

Motorized Valve Actuator Located in the Northeast and Southeast Corner Rooms

Limatorque Model SMB, AC Service, Class B Insulation

Service: Shut Down Cool Suction Isolation Valve

TER EQUIPMENT ITEM NO: 18

Plant ID: 2E11-MOV F047A,B

Motorized Valve Actuator Located in the Northeast and Southeast Corner Rooms

Limitorque Model SMB, AC Service, Class B Insulation

Service: RHR RX A&B to Inlet Valve

TER EQUIPMENT ITEM NO: 18

Plant ID: 2E21-MOV F001A,B

Motorized Valve Actuator Located in the Northeast and Southeast Corner Rooms

Limitorque Model SMB, AC Service, Class B Insulation

Service: Pump C001A & B Valve

TER EQUIPMENT ITEM NO: 18

Plant ID: 2E21-MOV F015A,B

Motorized Valve Actuator Located in the Northeast and Southeast Corner Rooms

Limitorque Model SMB, AC Service, Class B Insulation

Service: Test Bypass Valve

TER EQUIPMENT ITEM NO: 18

Plant ID: 2E21-MOV F031A,B

Motorized Valve Actuator Located in the Northeast and Southeast Corner Rooms

Limitorque Model SMB, AC Service, Class B Insulation

Service: Minimum Flow Bypass Valve

TER EQUIPMENT ITEM NO: 18

Plant ID: 2E11-MOV F104A,B

Motorized Valve Actuator Located in the Northeast and Southeast Corner Rooms

Limitorque Model SMB, AC Service, Class B Insulation

Service: Residual Heat Removal HX A&B Ventilation

TER EQUIPMENT ITEM NO: 18

Plant ID: 2E11-MOV F103A,B

Motorized Valve Actuator Located in the Northeast and Southeast Corner Rooms

Limitorque Model SMB, AC Service, Class B Insulation

Service: Residual Heat Removal HX A&B Ventilation

TER EQUIPMENT ITEM NO: 19

Plant ID: 2E11-MOV F091A,B

Motorized Valve Actuator Located in the Torus Room

Limitorque Model SMB, AC Service, Class RH Insulation

Service: HPCI Discharge to HX A & HX B

TER EQUIPMENT ITEM NO: 23

Plant ID: 2E11-MOV F040

Motorized Valve Actuator Located in the Torus Room

Limitorque Model SMB, AC Service, Class B Insulation

Service: R. W. Discharge Isolation Valve

TER EQUIPMENT ITEM NO: 23

Plant ID: 2E11-MOV F119A,B

Motorized Valve Actuator Located in the Torus Room
Limitorque Model SMB, AC Service, Class B Insulation
Service: RHR HX Bypass

TER EQUIPMENT ITEM NO: 23

Plant ID: 2E11-MOV F010

Motorized Valve Actuator Located in the Torus Room
Limitorque Model SMB, AC Service, Class B Insulation
Service: Residual Heat Removal System Cross-Tie

TER EQUIPMENT ITEM NO: 24

Plant ID: 2E11-MOV F027B

Motorized Valve Actuator Located in the Torus Room
Limitorque Model SMB, AC Service, Class B Insulation
Service: Suppression Pool Spray Valve

TER EQUIPMENT ITEM NO: 24

Plant ID: 2E11-MOV F073A,B

Motorized Valve Actuator Located in the Torus Room
Limitorque Model SMB, AC Service, Class B Insulation
Service: RHR Service Water Pump Discharge Valves

TER EQUIPMENT ITEM NO: 24

Plant ID: 2E11-MOV F075A

Motorized Valve Actuator Located in the Torus Room
Limitorque Model SMB, AC Service, Class B Insulation
Service: RHR Water Pump Discharge Valve

TER EQUIPMENT ITEM NO: 24

Plant ID: 2E32-MOV F003,B,K,F,P

Motorized Valve Actuator Located in the Torus Room
Limitorque Model SMB, AC Service, Class B Insulation
Service: Main Steam Line Leakage Control Isolation Valves

TER EQUIPMENT ITEM NO: 26

Plant ID: 2E51-MOV F007

Motorized Valve Actuator Located in the Containment
Limitorque Model SMB, AC Service, Class RH Insulation
Service: RCIC Steam Inboard Isolation Valve

TER EQUIPMENT ITEM NO: 27

Plant ID: 2G31-MOV F001

Motorized Valve Actuator Located in the Containment
Limitorque Model SMB, AC Service, Class RH Insulation
Service: Upstream Isolation Valve

TER EQUIPMENT ITEM NO: 28

Plant ID: 2B21-MOV F016

Motorized Valve Actuator Located in the Containment
Limitorque Model SMB, AC Service, Class RH Insulation
Service: Main Steam Line Isolation

TER EQUIPMENT ITEM NO: 29

Plant ID: 2T49-MOV F002A,B

Motorized Valve Actuator Located in the Reactor Building, Elev. 185'0"
Limitorque Model SMB, AC Service, Class B Insulation
Service: Gas from DW Outboard Isolation Valve

TER EQUIPMENT ITEM NO: 29

Plant ID: 2T49-MOV F001A,B

Motorized Valve Actuator Located in the Reactor Building, Elev. 185'0"
Limitorque Model SMB, AC Service, Class B Insulation
Service: Gas from DW Inboard Isolation Valve

TER EQUIPMENT ITEM NO: 31

Plant ID: 2E11-MOV F068A,B

Motorized Valve Actuator Located in the Northeast and Southeast Corner Rooms
Limitorque Model SMB, AC Service, Class B Insulation
Service: RHR Service Water Flow Control

TER EQUIPMENT ITEM NO: 31

Plant ID: 2T49-MOV F006A,B

Motorized Valve Actuator Located in the Northeast and Southeast Corner Rooms
Limitorque Model SMB, AC Service, Class B Insulation
Service: Feedwater from RHR to Cooler Isolation Valve

TER EQUIPMENT ITEM NO: 33

Plant ID: 2E32-MOV F001B,F,K,P

Motorized Valve Actuator Located in the Pipe Chase
Limitorque Model SMB, AC Service, Class RH Insulation
Service: Main Steam Line Leakage Control Isolation Valve

TER EQUIPMENT ITEM NO: 34

Plant ID: 2P42-MOV F052

Motorized Valve Actuator Located in the Torus Room
Limitorque Model SMB, AC Service, Class B Insulation
Service: System Inlet Containment Isolation

TER EQUIPMENT ITEM NO: 34

Plant ID: 2P42-MOV F051

Motorized Valve Actuator Located in the Torus Room
Limitorque Model SMB, AC Service, Class B Insulation
Service: System Inlet Containment Isolation

TER EQUIPMENT ITEM NO: 35

Plant ID: 2T49-MOV F005A,B

Motorized Valve Actuator Located in the Torus Room

Limitorque Model SMB, AC Service, Class B Insulation

Service: Gas & Water Return to Torus Isolation Valve

TER EQUIPMENT ITEM NO: 35

Plant ID: 2T49-MOV F004A,B

Motorized Valve Actuator Located in the Torus Room

Limitorque Model SMB, AC Service, Class B Insulation

Service: Gas & Water Return to Torus Isolation Valve

TER EQUIPMENT ITEM NO: 36

Plant ID: 2P64-MOV F047

Motorized Valve Actuator Located in the Reactor Building, Elev. 130'0"

Limitorque Model SMB, AC Service, Class B Insulation

Service: Primary Containment Isolation

TER EQUIPMENT ITEM NO: 36

Plant ID: 2P64-MOV F045

Motorized Valve Actuator Located in the Reactor Building, Elev. 130'0"

Limitorque Model SMB, AC Service, Class B Insulation

Service: Primary Containment Isolation

TER EQUIPMENT ITEM NO: 37

Plant ID: 2E51-MOV F104

Motorized Valve Actuator Located in the Torus Room

Limitorque Model SMB, AC Service, Class RH Insulation

Service: Exhaust to Torus Penetration

TER EQUIPMENT ITEM NO: 38

Plant ID: 2T48-AOV F335A,B

Solenoid Valve Located in the Reactor Building, Elev. 185'0"

ASCO Model NP8320A186E

Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 38

Plant ID: 2T48-AOV F334A,B

Solenoid Valve Located in the Reactor Building, Elev. 185'0"

ASCO Model NP8320A186E

Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 38

Plant ID: 2T48-AOV F333A,B

Solenoid Valve Located in the Torus Room

ASCO Model NP8320A186E

Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 38
Plant ID: 2T48-AOV F332A,B
Solenoid Valve Located in the Torus Room
ASCO Model NP8320A186E
Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 38
Plant ID: 2T48-AOV F327
Solenoid Valve Located in the Torus Room
ASCO Model NP206-380-3F
Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 38
Plant ID: 2T48-AOV F325
Solenoid Valve Located in the Torus Room
ASCO Model NP206-380-3F
Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 38
Plant ID: 2T48-AOV F322
Solenoid Valve Located in the Torus Room
ASCO Model NP206-380-3F
Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 38
Plant ID: 2T48-AOV F321
Solenoid Valve Located in the Torus Room
ASCO Model NP206-380-3F
Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 38
Plant ID: 2T48-AOV F116
Solenoid Valve Located in the Torus Room
ASCO Model NP206-380-3F
Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 38
Plant ID: 2T48-AOV F115
Solenoid Valve Located in the Torus Room
ASCO Model NP206-380-3F
Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 38
Plant ID: 2T48-AOV F114
Solenoid Valve Located in the Torus Room
ASCO Model NP206-380-3F
Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 38

Plant ID: 2T48-AOV F113

Solenoid Valve Located in the Torus Room

ASCO Model NP206-380-3F

Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 38

Plant ID: 2P70-AOV F005

Solenoid Valve Located in the Torus Room

ASCO Model NP206-380-3F

Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 38

Plant ID: 2P70-AOV F004

Solenoid Valve Located in the Reactor Building, Elev. 158'0"

ASCO Model NP206-381-3F

Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 38

Plant ID: 2P70-AOV F001A

Solenoid Valve Located in the Reactor Building, Elev. 158'0"

ASCO Model NP206-381-3F

Service: Drywell Nitrogen Make-up

TER EQUIPMENT ITEM NO: 39

Plant ID: 2T48-AOV F340

Solenoid Valve Located in the Reactor Building, Elev. 185'0"

ASCO Model NP8320A186E

Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 39

Plant ID: 2T48-AOV F341

Solenoid Valve Located in the Torus Room

ASCO Model NP8320A186E

Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 39

Plant ID: 2T48-AOV F103

Solenoid Valve Located in the Torus Room

ASCO Model NP831654E

Service: Drywell Torus Purge

TER EQUIPMENT ITEM NO: 39

Plant ID: 2T48-AOV F338

Solenoid Valve Located in the Torus Room

ASCO Model NP8320A186E

Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 39
Plant ID: 2T48-AOV F339
Solenoid Valve Located in the Torus Room
ASCO Model NP8320A186E
Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 39
Plant ID: 2T48-AOV F118A,B
Solenoid Valve Located in the Torus Room
ASCO Model NP206-380-3F
Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 39
Plant ID: 2T48-AOV F104
Solenoid Valve Located in the Torus Room
ASCO Model NP206-380-3F
Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 39
Plant ID: 2P70-AOV F003
Solenoid Valve Located in the Reactor Building, Elev. 158'0"
ASCO Model NP206-380-3F
Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 39
Plant ID: 2P70-AOV F002
Solenoid Valve Located in the Reactor Building, Elev. 158'0"
ASCO Model NP206-380-3F
Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 39
Plant ID: 2D11-AOV F052
Solenoid Valve Located in the Reactor Building, Elev. 130'0"
ASCO Model NP206-380-3F
Service: Fission Products Sample Isolation Valve

TER EQUIPMENT ITEM NO: 39
Plant ID: 2D11-AOV F051
Solenoid Valve Located in the Pipe Penetration Room
ASCO Model NP206-381-3F
Service: Fission Products Sample Isolation Valve

TER EQUIPMENT ITEM NO: 39
Plant ID: 2D11-AOV F050
Solenoid Valve Located in the Reactor Building, Elev. 130'0"
ASCO Model NP206-381-3F
Service: Fission Products Sample Isolation Valve

TER EQUIPMENT ITEM NO: 39

Plant ID: 2D11-AOV F053

Solenoid Valve Located in the Pipe Penetration Room

ASCO Model NP206-380-3F

Service: Fission Products Sample Isolation Valve

TER EQUIPMENT ITEM NO: 40

Plant ID: 2E11-AOV F065A,B,C,D

Solenoid Valve Located in the Torus Room

ASCO Model NP831664E

Service: RHR Pump C002A,B,C,D Suction Valve

TER EQUIPMENT ITEM NO: 41

Plant ID: 2B31-AOV F019

Solenoid Valve Located in the Containment

ASCO Model NP8320A186E

Service: Sample Line

TER EQUIPMENT ITEM NO: 42

Plant ID: 2E11-AOV F051A,B

Solenoid Valve Located in the Northeast and Southeast Corner Rooms

ASCO Model NP206-380-3F

Service: Residual Heat Removal HX A&B in from HPCI

TER EQUIPMENT ITEM NO: 42

Plant ID: 2E11-AOV F053A,B

Solenoid Valve Located in the Northeast and Southeast Corner Rooms

ASCO Model NP206-380-3F

Service: Residual Heat Removal HX A&B Discharge to RCIC

TER EQUIPMENT ITEM NO: 43

Plant ID: 2P41-AOV F040A,B

Solenoid Valve Located in the RCIC (NW) Corner Room

ASCO Model NP206-380-3F

Service: RCIC Room Cooler Supply

TER EQUIPMENT ITEM NO: 44

Plant ID: 2T46-AOV F001B

Solenoid Valve Located in the Reactor Building, Elev. 185'0"

ASCO Model NP8320A188E

Service: Inlet Damper to Filter B

TER EQUIPMENT ITEM NO: 45

Plant ID: 2B21-AOV F028A,B,C,D

Solenoid Valve Located in the Pipe Chase

ASCO Model NP8320A183V

Service: Main Steam Line Isolation

TER EQUIPMENT ITEM NO: 46
Plant ID: 2B21-AOV F022A,B,C,D
Solenoid Valve Located in the Containment
ASCO Model NP8320A183V
Service: Main Steam Line Isolation

TER EQUIPMENT ITEM NO: 47
Plant ID: 2T41-AOV F003B
Solenoid Valve Located in the Reactor Building, Elev. 203'0"
ASCO Model NP8321A2E
Service: Out. Refueling Floor Fans 2A, 2B

TER EQUIPMENT ITEM NO: 47
Plant ID: 2T41-AOV F011B
Solenoid Valve Located in the Reactor Building, Elev. 185'0"
ASCO Model NP8321A2E
Service: Reactor Zone Support Fan Isolation Damper

TER EQUIPMENT ITEM NO: 47
Plant ID: 2T41-AOV F023A
Solenoid Valve Located in the Reactor Building, Elev. 203'0"
ASCO Model NP8321A2E
Service: Ref. Floor Exhaust Isolation Damper Rx Bldg. Vent System

TER EQUIPMENT ITEM NO: 48
Plant ID: 2C11-SV D117
Solenoid Valve Located in the Reactor Building, Elev. 130'0"
ASCO Model HVA-90-405
Service: SCRAM Pilot Valve

TER EQUIPMENT ITEM NO: 48
Plant ID: 2C11-SV D118
Solenoid Valve Located in the Reactor Building, Elev. 130'0"
ASCO Model HVA-90-405
Service: SCRAM Pilot Valve

TER EQUIPMENT ITEM NO: 48
Plant ID: 2C11-SV F009
Solenoid Valve Located in the Reactor Building, Elev. 130'0"
ASCO Model NP8323A22E
Service: SCRAM Volume Drain Pilot Valve

TER EQUIPMENT ITEM NO: 49
Plant ID: 2T48-AOV F307
Solenoid Valve Located in the Torus Room
ASCO Model NP8316A74E
Service: Inlet Valve to Drywell

TER EQUIPMENT ITEM NO: 49
Plant ID: 2T48-AOV F308
Solenoid Valve Located in the Torus Room
ASCO Model NP8316A74E
Service: Drywell Purge Air Inlet

TER EQUIPMENT ITEM NO: 49
Plant ID: 2T48-AOV F309
Solenoid Valve Located in the Torus Room
ASCO Model NP8316A74E
Service: Torus Purge Air Inlet

TER EQUIPMENT ITEM NO: 49
Plant ID: 2T48-AOV F310
Solenoid Valve Located in the Torus Room
ASCO Model NP8316A74E
Service: Torus Pressure Equalizer Valve

TER EQUIPMENT ITEM NO: 49
Plant ID: 2T48-AOV F311
Solenoid Valve Located in the Torus Room
ASCO Model NP8316A74E
Service: Torus Pressure Equalizer Valve

TER EQUIPMENT ITEM NO: 49
Plant ID: 2T48-AOV F318
Solenoid Valve Located in the Torus Room
ASCO Model NP8316A74E
Service: Outlet Valve from Torus

TER EQUIPMENT ITEM NO: 49
Plant ID: 2T48-AOV F319
Solenoid Valve Located in the Reactor Building, Elev. 185'0"
ASCO Model NP8316A74E
Service: Outlet Valve from Drywell

TER EQUIPMENT ITEM NO: 49
Plant ID: 2T48-AOV F320
Solenoid Valve Located in the Reactor Building, Elev. 185'0"
ASCO Model NP8316A74E
Service: Outlet Valve from Drywell

TER EQUIPMENT ITEM NO: 49
Plant ID: 2T48-AOV F324
Solenoid Valve Located in the Torus Room
ASCO Model NP8316A74E
Service: Torus Purge Air Inlet

TER EQUIPMENT ITEM NO: 49
Plant ID: 2T48-AOV F326
Solenoid Valve Located in the Torus Room
ASCO Model NP8316A74E
Service: Outlet Valve from Torus

TER EQUIPMENT ITEM NO: 50
Plant ID: 2T48-AOV F211
Solenoid Valve Located in the Torus Room
ASCO Model NP831654E
Service: Drywell Torus DP System

TER EQUIPMENT ITEM NO: 50
Plant ID: 2T48-AOV F209
Solenoid Valve Located in the Pipe Penetration Room
ASCO Model NP831654E
Service: Drywell Torus DP System

TER EQUIPMENT ITEM NO: 50
Plant ID: 2T48-AOV F210
Solenoid Valve Located in the Pipe Penetration Room
ASCO Model NP831654E
Service: Drywell Torus DP System

TER EQUIPMENT ITEM NO: 50
Plant ID: 2T48-AOV F212
Solenoid Valve Located in the Torus Room
ASCO Model NP831654E
Service: Drywell Torus DP System

TER EQUIPMENT ITEM NO: 51
Plant ID: 2E21-AOV F019A,B
Solenoid Valve Located in the Torus Room
ASCO Model NP8321A2E
Service: Suppression Chamber Isolation Valve

TER EQUIPMENT ITEM NO: 51
Plant ID: 2E41-AOV F051
Solenoid Valve Located in the Torus Room
ASCO Model NP8321A2E
Service: Suppression Pool Suction Isolation Valve

TER EQUIPMENT ITEM NO: 51
Plant ID: 2E51-AOV F003
Solenoid Valve Located in the Torus Room
ASCO Model NP8321A2E
Service: Suppression Pool Suction Isolation Valve

TER EQUIPMENT ITEM NO: 52

Plant ID: 2G51-AOV F011

Solenoid Valve Located in the Torus Room

ASCO Model NP206-380-3F

Service: Torus Water Cleanup Isolation Valve

TER EQUIPMENT ITEM NO: 52

Plant ID: 2G51-AOV F013

Solenoid Valve Located in the Northeast and Southeast Corner Rooms

ASCO Model NP206-380-3F

Service: Torus Water Cleanup Isolation Valve

TER EQUIPMENT ITEM NO: 52

Plant ID: 2G51-AOV F012

Solenoid Valve Located in the Torus Room

ASCO Model NP206-380-3F

Service: Torus Water Cleanup Isolation Valve

TER EQUIPMENT ITEM NO: 53

Plant ID: 2G11-AOV F020

Solenoid Valve Located in the Torus Room

ASCO Model NP831654E

Service: Drywell Equipment Drain Isolation Valve

TER EQUIPMENT ITEM NO: 53

Plant ID: 2G11-AOV F019

Solenoid Valve Located in the Torus Room

ASCO Model NP831654E

Service: Drywell Equipment Drain Isolation Valve

TER EQUIPMENT ITEM NO: 53

Plant ID: 2G11-AOV F004

Solenoid Valve Located in the Torus Room

ASCO Model NP831654E

Service: Drywell Floor Drain Pump Isolation Valve

TER EQUIPMENT ITEM NO: 53

Plant ID: 2G11-AOV F003

Solenoid Valve Located in the Torus Room

ASCO Model NP831654E

Service: Drywell Floor Drain Pump Isolation Valve

TER EQUIPMENT ITEM NO: 54

Plant ID: 2B21-AOV F077A,B

Solenoid Valve Located in the Pipe Chase

ASCO Model NP8323A37E

Service: Feed Water Check Valve

TER EQUIPMENT ITEM NO: 54
Plant ID: 2B21-AOV F076A,B
Solenoid Valve Located in the Pipe Chase
ASCO Model NP8323A37E
Service: Feed Water Check Valve

TER EQUIPMENT ITEM NO: 55
Plant ID: 2P41-AOV F066
Solenoid Valve Located in the Torus Room
ASCO Model NP8320A188E
Service: Plant Service Water Inlet Div. 1

TER EQUIPMENT ITEM NO: 55
Plant ID: 2P41-AOV F067
Solenoid Valve Located in the Torus Room
ASCO Model NP8320A188E
Service: Plant Service Water Inlet Div. 2

TER EQUIPMENT ITEM NO: 56
Plant ID: 2T48-SV F380
Solenoid Valve Located in the Torus Room
ASCO Model NP8320A185E
Service: Solenoid Valve for Sensing Line Isolation Valve 2T48-F364B

TER EQUIPMENT ITEM NO: 56
Plant ID: 2T48-SV F379
Solenoid Valve Located in the Torus Room
ASCO Model NP8320A185E
Service: Solenoid Valve for Sensing Line Isolation Valve 2T48-F364B

TER EQUIPMENT ITEM NO: 56
Plant ID: 2T48-SV F378
Solenoid Valve Located in the Torus Room
ASCO Model NP8320A185E
Service: Solenoid Valve for Sensing Line Isolation Valve 2T48-F364A

TER EQUIPMENT ITEM NO: 56
Plant ID: 2T48-SV F377
Solenoid Valve Located in the Torus Room
ASCO Model NP8320A185E
Service: Solenoid Valve for Sensing Line Isolation Valve 2T48-F364A

TER EQUIPMENT ITEM NO: 56

Plant ID: 2T48-SV F372

Solenoid Valve Located in the Torus Room

ASCO Model NP8320A185E

Service: Solenoid Valve for Sensing Line Isolation Valve 2T48-F362B

TER EQUIPMENT ITEM NO: 56

Plant ID: 2T48-SV F371

Solenoid Valve Located in the Torus Room

ASCO Model NP8320A185E

Service: Solenoid Valve for Sensing Line Isolation Valve 2T48-F362B

TER EQUIPMENT ITEM NO: 56

Plant ID: 2T48-SV F370

Solenoid Valve Located in the Torus Room

ASCO Model NP8320A185E

Service: Solenoid Valve for Sensing Line Isolation Valve 2T48-F362A

TER EQUIPMENT ITEM NO: 56

Plant ID: 2T48-SV F369

Solenoid Valve Located in the Torus Room

ASCO Model NP8320A185E

Service: Solenoid Valve for Sensing Line Isolation Valve 2T48-F362A

TER EQUIPMENT ITEM NO: 56

Plant ID: 2T48-SV F368

Solenoid Valve Located in the Torus Room

ASCO Model NP8320A185E

Service: Solenoid Valve for Sensing Line Isolation Valve 2T48-F361B

TER EQUIPMENT ITEM NO: 56

Plant ID: 2T48-SV F367

Solenoid Valve Located in the Torus Room

ASCO Model NP8320A185E

Service: Solenoid Valve for Sensing Line Isolation Valve 2T48-F361B

TER EQUIPMENT ITEM NO: 56

Plant ID: 2T48-SV F366

Solenoid Valve Located in the Torus Room

ASCO Model NP8320A185E

Service: Solenoid Valve for Sensing Line Isolation Valve 2T48-F361A

TER EQUIPMENT ITEM NO: 56

Plant ID: 2T48-AOV F365

Solenoid Valve Located in the Torus Room

ASCO Model NP8320A185E

Service: Solenoid Valve for Sensing Line Isolation Valve 2T48-F361A

TER EQUIPMENT ITEM NO: 57

Plant ID: 2T48-SV F373

Solenoid Valve Located in the Reactor Building, Elev. 130'0"

ASCO Model NP8320A185E

Service: Solenoid Valve for Sensing Line Isolation Valve 2T48-F363A

TER EQUIPMENT ITEM NO: 57

Plant ID: 2T48-SV F376

Solenoid Valve Located in the Reactor Building, Elev. 130'0"

ASCO Model NP8320A185E

Service: Solenoid Valve for Sensing Line Isolation Valve 2T48-F363B

TER EQUIPMENT ITEM NO: 57

Plant ID: 2T48-SV F375

Solenoid Valve Located in the Reactor Building, Elev. 130'0"

ASCO Model NP8320A185E

Service: Solenoid Valve for Sensing Line Isolation Valve 2T48-F363B

TER EQUIPMENT ITEM NO: 57

Plant ID: 2T48-SV F374

Solenoid Valve Located in the Reactor Building, Elev. 130'0"

ASCO Model NP8320A185E

Service: Solenoid Valve for Sensing Line Isolation Valve 2T48-F363A

TER EQUIPMENT ITEM NO: 58

Plant ID: 2P41-AOV F039A,B

Solenoid Valve Located in the Southeast Corner Room

ASCO Model NP206-380-3F

Service: RHR Core Spray Room Cooler 3A & 3B Inlet

TER EQUIPMENT ITEM NO: 58

Plant ID: 2P41-AOV F037B,D

Solenoid Valve Located in the Southeast Corner Room

ASCO Model NP206-380-3F

Service: RHR Pump Cooler C002B & D

TER EQUIPMENT ITEM NO: 58

Plant ID: 2P41-SV F037A,C

Solenoid Valve Located in the Southeast Corner Room

ASCO Model NP206-380-3F

Service: RHR Pump Cooler C002A & C Inlet

TER EQUIPMENT ITEM NO: 58

Plant ID: 2P41-AOV F036A,B

Solenoid Valve Located in the Southeast Corner Room

ASCO Model NP206-380-3F

Service: RHR Core Spray Room Cooler 2A & 2B

TER EQUIPMENT ITEM NO: 58

Plant ID: 2P41-AOV F035A,B

Solenoid Valve Located in the Southeast Corner Room

ASCO Model NP206-380-4F

Service: HPCI Pump Room C/R B005A & B

TER EQUIPMENT ITEM NO: 59

Plant ID: 2B31-AOV F020

Solenoid Valve Located in the Reactor Building, Elev. 185'0"

ASCO Model NP206-380-3F

Service: Reactor Water Sample Isolation Valve

TER EQUIPMENT ITEM NO: 59

Plant ID: 2G51-AOV F017

Solenoid Valve Located in the Southeast Corner Room

ASCO Model NP206-380-3F

Service: Torus Water Clean-up Isolation

TER EQUIPMENT ITEM NO: 59

Plant ID: 2P33-AOV F015

Solenoid Valve Located in the Torus Room

ASCO Model NP206-380-3F

Service: H₂ and O₂ Containment Isolation Valve

TER EQUIPMENT ITEM NO: 59

Plant ID: 2P33-AOV F014

Solenoid Valve Located in the Torus Room

ASCO Model NP206-380-3F

Service: H₂ and O₂ Containment Isolation Valve

TER EQUIPMENT ITEM NO: 59

Plant ID: 2P33-AOV F013

Solenoid Valve Located in the Torus Room

ASCO Model NP206-380-3F

Service: H₂ and O₂ Containment Isolation Valve

TER EQUIPMENT ITEM NO: 59

Plant ID: 2P33-AOV F012

Solenoid Valve Located in the Reactor Building, Elev. 130'0"

ASCO Model NP206-380-3F

Service: H₂ and O₂ Containment Isolation Valve

TER EQUIPMENT ITEM NO: 59

Plant ID: 2P33-AOV F011

Solenoid Valve Located in the Reactor Building, Elev. 130'0"

ASCO Model NP206-380-3F

Service: H₂ and O₂ Containment Isolation Valve

TER EQUIPMENT ITEM NO: 59

Plant ID: 2P33-AOV F010

Solenoid Valve Located in the Reactor Building, Elev. 185'0"

ASCO Model NP206-380-3F

Service: H₂ and O₂ Containment Isolation Valve

TER EQUIPMENT ITEM NO: 59

Plant ID: 2P33-AOV F007

Solenoid Valve Located in the Torus Room

ASCO Model NP206-381-3F

Service: H₂ and O₂ Containment Isolation Valve

TER EQUIPMENT ITEM NO: 59

Plant ID: 2P33-AOV F006

Solenoid Valve Located in the Torus Room

ASCO Model NP206-381-3F

Service: H₂ and O₂ Containment Isolation Valve

TER EQUIPMENT ITEM NO: 59

Plant ID: 2P33-AOV F005

Solenoid Valve Located in the Torus Room

ASCO Model NP206-381-3F

Service: H₂ and O₂ Containment Isolation Valve

TER EQUIPMENT ITEM NO: 59

Plant ID: 2P33-AOV F004

Solenoid Valve Located in the Reactor Building Elev. 130'0"

ASCO Model NP206-381-3F

Service: H₂ and O₂ Containment Isolation Valve

TER EQUIPMENT ITEM NO: 59

Plant ID: 2P33-AOV F003

Solenoid Valve Located in the Reactor Building Elev. 130'0"

ASCO Model NP206-381-3F

Service: H₂ and O₂ Containment Isolation Valve

TER EQUIPMENT ITEM NO: 59

Plant ID: 2P33-AOV F002

Solenoid Valve Located in the Reactor Building Elev. 185'0"

ASCO Model NP206-381-3F

Service: H₂ and O₂ Containment Isolation Valve

TER EQUIPMENT ITEM NO: 60

Plant ID: 2E41-AOV F025

Solenoid Valve Located in the HPCI Room

ASCO Model NP206-381-3F

Service: Condensate Pump Discharge Drain Isolation Valve

TER EQUIPMENT ITEM NO: 60

Plant ID: 2E41-AOV F026

Solenoid Valve Located in the HPCI Room

ASCO Model NP206-381-3F

Service: Condensate Pump Discharge Drain Isolation Valve

TER EQUIPMENT ITEM NO: 61

Plant ID: 2E41-AOV F029

Solenoid Valve Located in the HPCI Room

ASCO Model NP206-381-3F

Service: Steam Pot Drain Isolation Valve

TER EQUIPMENT ITEM NO: 61

Plant ID: 2E41-AOV F028

Solenoid Valve Located in the HPCI Room

ASCO Model NP206-381-3F

Service: Steam Pot Drain Isolation Valve

TER EQUIPMENT ITEM NO: 62

Plant ID: 2E11-AOV F122A,B

Solenoid Valve Located in the Containment

ASCO Model NP8320A186V

Service: Testable Check Bypass

TER EQUIPMENT ITEM NO: 62

Plant ID: 2E21-AOV F037A,B

Solenoid Valve Located in the Containment

ASCO Model NP8320A186V

Service: Testable Check Bypass

TER EQUIPMENT ITEM NO: 63

Plant ID: 2E11-SV F079A,B

Solenoid Valve Located in the Northeast and Southeast Corner Rooms

Target Rock Model 75F004

Service: RHR HX Discharge Header Sample

TER EQUIPMENT ITEM NO: 63

Plant ID: 2E11-SV F080A,B

Solenoid Valve Located in the Northeast and Southeast Corner Rooms

Target Rock Model 75F004

Service: RHR HX Discharge Header Sample

TER EQUIPMENT ITEM NO: 64

Plant ID: 2B21-AOV F013A,C,E,H,K,L,M

Solenoid Valve Located in the Containment

Target Rock Model 1/2 SMS-A-01-1

Service: ADS

TER EQUIPMENT ITEM NO: 65

Plant ID: 2E11-SV F074A,B

Solenoid Valve Located in the Torus Room

Target Rock Model 75F010

Service: Service Water in HX A & B to Drywell

TER EQUIPMENT ITEM NO: 66

Plant ID: 2E41-SV F053

Solenoid Valve Located in the HPCI Room

Target Rock Model 75F005

Service: Condensate Drain Pot to Barometric Condenser

TER EQUIPMENT ITEM NO: 67

Plant ID: 2B21-SV F112

Solenoid Valve Located in the Reactor Building, Elev. 130'0"

Valcor Model V5266040

Service: Sample Isolation from Jet Pumps

TER EQUIPMENT ITEM NO: 68

Plant ID: 2B21-SV F111

Solenoid Valve Located in the Reactor Building, Elev. 130'0"

Valcor Model V5266040

Service: Sample Isolation from Jet Pumps

TER EQUIPMENT ITEM NO: 69

Plant ID: 2E41-SV F121

Solenoid Valve Located in the HPCI Room

Valcor Model V5265295

Service: Sample Return Isolation to Torus

TER EQUIPMENT ITEM NO: 70

Plant ID: 2G51-F013

Limit Switches Located in the Southeast Corner Room

NAMCO Model EA740-20000/EA740-20100

Service: Torus Water Clean-up Isolation Valve

TER EQUIPMENT ITEM NO: 73

Plant ID: 2B21-AOV F028A,B,C,D

Limit Switches Located in the Pipe Chase

NAMCO Model EA740-80000/EA740-80001

Service: Main Steam Line Isolation

TER EQUIPMENT ITEM NO: 74

Plant ID: 2B21-AOV F022A,B,C,D

Limit Switches Located in the Containment

NAMCO Model EA740-80000/EA740-80001

Service: Main Steam Line Isolation

TER EQUIPMENT ITEM NO: 75

Plant ID: 2B21-AOV F077A,B

Limit Switches Located in the Pipe Chase

NAMCO Model EA180-31302 & EA180-32302

Service: Feedwater Check Valve

TER EQUIPMENT ITEM NO: 75

Plant ID: 2B21-AOV F076A,B

Limit Switches Located in the Pipe Chase

NAMCO Model EA180-31302 & EA180-32302

Service: Feedwater Check Valve

TER EQUIPMENT ITEM NO: 76

Plant ID: 2G51-AOV F011

Limit Switches Located in the Torus Room

NAMCO Model EA740-20000

Service: Torus Water Clean-up Isolation Valve

TER EQUIPMENT ITEM NO: 76

Plant ID: 2G51-AOV F012

Limit Switches Located in the Torus Room

NAMCO Model EA740-20000

Service: Torus Water Clean-up Isolation Valve

TER EQUIPMENT ITEM NO: 77

Plant ID: 2B31-AOV F019

Limit Switches Located in the Containment

NAMCO Model EA180-31302

Service: Sample Line

TER EQUIPMENT ITEM NO: 77

Plant ID: 2E11-AOV F122A,B

Limit Switches Located in the Containment

NAMCO Model EA180-31302

Service: Testable Check Bypass

TER EQUIPMENT ITEM NO: 77

Plant ID: 2E21-AOV F037A,B

Limit Switches Located in the Containment

NAMCO Model EA180-31302

Service: Testable Check Bypass

TER EQUIPMENT ITEM NO: 78

Plant ID: 2T48-AOV F341

Limit Switches Located in the Torus Room

NAMCO Model EA180-31302

Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 78

Plant ID: 2T48-AOV F103

Limit Switches Located in the Torus Room

NAMCO Model EA180-31302 & EA180-32302

Service: Drywell Torus Purge

TER EQUIPMENT ITEM NO: 78

Plant ID: 2T48-AOV F364A,B

Limit Switches Located in the Torus Room

NAMCO Model EA180-31302

Service: Sensing Line Isolation

TER EQUIPMENT ITEM NO: 78

Plant ID: 2T48-AOV F362A,B

Limit Switches Located in the Torus Room

NAMCO Model EA180-31302

Service: Sensing Line Isolation

TER EQUIPMENT ITEM NO: 78

Plant ID: 2T48-AOV F361A,B

Limit Switches Located in the Torus Room

NAMCO Model EA180-31302

Service: Sensing Line Isolation

TER EQUIPMENT ITEM NO: 79

Plant ID: 2E11-AOV F065A,B,C,D

Limit Switches Located in the Torus Room

NAMCO Model EA180-31302 & EA180-32302

Service: RHR Pump C002A,B,C,D Suction Valve

TER EQUIPMENT ITEM NO: 79

Plant ID: 2E21-AOV F019A,B

Limit Switches Located in the Torus Room

NAMCO Model EA180-31302 & EA180-32302

Service: Suppression Chamber Isolation Valve

TER EQUIPMENT ITEM NO: 79

Plant ID: 2E41-AOV F051

Limit Switches Located in the Torus Room

NAMCO Model EA180-31302 & EA180-32302

Service: Suppression Pool Suction Isolation Valve

TER EQUIPMENT ITEM NO: 79

Plant ID: 2E51-AOV F003

Limit Switches Located in the Torus Room

NAMCO Model EA180-31302 & EA180-32302

Service: Suppression Pool Suction Isolation Valve

TER EQUIPMENT ITEM NO: 79

Plant ID: 2T48-AOV F311

Limit Switches Located in the Torus Room

NAMCO Model EA180-31302 & EA180-32302

Service: Torus Pressure Equal. Valve

TER EQUIPMENT ITEM NO: 79

Plant ID: 2T48-AOV F310

Limit Switches Located in the Torus Room

NAMCO Model EA180-31302 & EA180-32302

Service: Torus Pressure Equal. Valve

TER EQUIPMENT ITEM NO: 79

Plant ID: 2T48-AOV F309

Limit Switches Located in the Torus Room

NAMCO Model EA180-31302 & EA180-32302

Service: Torus Purge Air Inlet

TER EQUIPMENT ITEM NO: 79

Plant ID: 2T48-AOV F308

Limit Switches Located in the Torus Room

NAMCO Model EA180-31302 & EA180-32302

Service: Drywell Purge Air Inlet

TER EQUIPMENT ITEM NO: 79

Plant ID: 2T48-AOV F307

Limit Switches Located in the Torus Room

NAMCO Model EA180-31302 & EA180-32302

Service: Inlet Valve to Drywell

TER EQUIPMENT ITEM NO: 79

Plant ID: 2T48-AOV F318

Limit Switches Located in the Torus Room

NAMCO Model EA180-31302 & EA180-32302

Service: Outlet Valve from Torus

TER EQUIPMENT ITEM NO: 79

Plant ID: 2T48-AOV F324

Limit Switches Located in the Torus Room

NAMCO Model EA180-31302 & EA180-32302

Service: Torus Purge Air Inlet

TER EQUIPMENT ITEM NO: 79

Plant ID: 2T48-AOV F326

Limit Switches Located in the Torus Room

NAMCO Model EA180-31302 & EA180-32302

Service: Outlet Valve from Torus

TER EQUIPMENT ITEM NO: 80

Plant ID: 2G11-F003

Limit Switches Located in the Torus Room

NAMCO Model EA180-34302

Service: Drywell Floor Drain Pump Isolation Valve

TER EQUIPMENT ITEM NO: 80

Plant ID: 2G11-F004

Limit Switches Located in the Torus Room

NAMCO Model EA180-34302

Service: Drywell Floor Drain Pump Isolation Valve

TER EQUIPMENT ITEM NO: 80

Plant ID: 2G11-F019

Limit Switches Located in the Torus Room

NAMCO Model EA180-34302

Service: Drywell Equipment Drain Pump Isolation Valve

TER EQUIPMENT ITEM NO: 80

Plant ID: 2G11-F020

Limit Switches Located in the Torus Room

NAMCO Model EA180-34302

Service: Drywell Equipment Drain Isolation Valve

TER EQUIPMENT ITEM NO: 80

Plant ID: 2T48-AOV F212

Limit Switches Located in the Torus Room

NAMCO Model EA180-34302

Service: Drywell Torus DP System

TER EQUIPMENT ITEM NO: 80

Plant ID: 2T48-AOV F209

Limit Switches Located in the Pipe Penetration Room

NAMCO Model EA180-34302

Service: Drywell Torus DP System

TER EQUIPMENT ITEM NO: 80

Plant ID: 2T48-AOV F210

Limit Switches Located in the Pipe Penetration Room

NAMCO Model EA180-34302

Service: Drywell Torus DP System

TER EQUIPMENT ITEM NO: 80

Plant ID: 2T48-AOV F211

Limit Switches Located in the Torus Room

NAMCO Model EA180-34302

Service: Drywell Torus DP System

TER EQUIPMENT ITEM NO: 81
Plant ID: 2T48-AOV F332A,B
Limit Switches Located in the Torus Room
NAMCO Model EA180-31302
Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 81
Plant ID: 2T48-AOV F333A,B
Limit Switches Located in the Torus Room
NAMCO Model EA180-31302
Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 81
Plant ID: 2T48-AOV F339
Limit Switches Located in the Torus Room
NAMCO Model EA180-31302
Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 81
Plant ID: 2T48-AOV F338
Limit Switches Located in the Torus Room
NAMCO Model EA180-31302
Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 82
Plant ID: 2T48-AOV F363A,B
Limit Switches Located in the Reactor Building, Elev. 130'0"
NAMCO Model EA180-31302
Service: Sensing Line Isolation

TER EQUIPMENT ITEM NO: 83
Plant ID: 2E41-AOV F028
Limit Switches Located in the HPCI Room
NAMCO Model EA180-31302
Service: Steam Pot Drain Isolation Valve

TER EQUIPMENT ITEM NO: 83
Plant ID: 2E41-AOV F029
Limit Switches Located in the HPCI Room
NAMCO Model EA180-31302
Service: Steam Pot Drain Isolation Valve

TER EQUIPMENT ITEM NO: 83
Plant ID: 2E41-AOV F026
Limit Switches Located in the HPCI Room
NAMCO Model EA180-31302
Service: Condensate Pump Discharge Drain Isolation Valve

TER EQUIPMENT ITEM NO: 83

Plant ID: 2E41-AOV F025

Limit Switches Located in the HPCI Room

NAMCO Model EA180-31302

Service: Condensate Pump Discharge Drain Isolation Valve

TER EQUIPMENT ITEM NO: 84

Plant ID: 2B31-AOV F020

Limit Switches Located in the Reactor Building, Elev. 185'0"

NAMCO Model EA180-31302

Service: Reactor Water Sample Isolation Valve

TER EQUIPMENT ITEM NO: 84

Plant ID: 2P33-AOV F002

Limit Switches Located in the Reactor Building, Elev. 185'0"

NAMCO Model EA180-31302

Service: H₂ and O₂ Containment Isolation Valve

TER EQUIPMENT ITEM NO: 84

Plant ID: 2P33-AOV F010

Limit Switches Located in the Reactor Building, Elev. 185'0"

NAMCO Model EA180-31302

Service: H₂ and O₂ Containment Isolation Valve

TER EQUIPMENT ITEM NO: 84

Plant ID: 2P70-AOV F001A

Limit Switches Located in the Reactor Building, Elev. 158'0"

NAMCO Model EA180-31302

Service: Drywell Nitrogen Make-up

TER EQUIPMENT ITEM NO: 84

Plant ID: 2P70-AOV F002

Limit Switches Located in the Reactor Building, Elev. 158'0"

NAMCO Model EA180-31302

Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 84

Plant ID: 2P70-AOV F003

Limit Switches Located in the Reactor Building, Elev. 158'0"

NAMCO Model EA180-31302

Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 84

Plant ID: 2P70-AOV F004

Limit Switches Located in the Reactor Building, Elev. 158'0"

NAMCO Model EA180-31302

Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 84

Plant ID: 2P70-AOV F005

Limit Switches Located in the Reactor Building, Elev. 158'0"

NAMCO Model EA180-31302

Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 84

Plant ID: 2T41-AOV F003B

Limit Switches Located in the Reactor Building, Elev. 203'0"

NAMCO Model EA180-31302 & EA180-32302

Service: Out. Refueling Floor Fans 2A & 2B

TER EQUIPMENT ITEM NO: 84

Plant ID: 2T41-AOV F011B

Limit Switches Located in the Reactor Building, Elev. 185'0"

NAMCO Model EA180-31302 & EA180-32302

Service: Reactor Zone Sup. Fan Isolation Damper

TER EQUIPMENT ITEM NO: 84

Plant ID: 2T41-AOV F023A

Limit Switches Located in the Reactor Building, Elev. 203'0"

NAMCO Model EA180-31302 & EA180-32302

Service: Refueling Floor Exhaust Isolation Damper Rea. Bldg. Vent System

TER EQUIPMENT ITEM NO: 84

Plant ID: 2T48-AOV F319

Limit Switches Located in the Reactor Building, Elev. 185'0"

NAMCO Model EA180-31302 & EA180-32302

Service: Outlet Valve from Drywell

TER EQUIPMENT ITEM NO: 84

Plant ID: 2T48-AOV F320

Limit Switches Located in the Reactor Building, Elev. 185'0"

NAMCO Model EA180-31302 & EA180-32302

Service: Outlet Valve from Drywell

TER EQUIPMENT ITEM NO: 85

Plant ID: 2D11-AOV F050

Limit Switches Located in the Reactor Building, Elev. 130'0"

NAMCO Model EA180-31302

Service: Fission Products Sample Isolation Valve

TER EQUIPMENT ITEM NO: 85

Plant ID: 2D11-AOV F052

Limit Switches Located in the Reactor Building, Elev. 130'0"

NAMCO Model EA180-31302

Service: Fission Products Sample Isolation Valve

TER EQUIPMENT ITEM NO: 85

Plant ID: 2G51-AOV F017

Limit Switches Located in the Southeast Corner Room

NAMCO Model EA180-31302

Service: Torus Water Clean-up Isolation

TER EQUIPMENT ITEM NO: 86

Plant ID: 2T48-AOV F334A,B

Limit Switches Located in the Reactor Building, Elev. 185'0"

NAMCO Model EA180-31302

Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 86

Plant ID: 2T48-AOV F335A,B

Limit Switches Located in the Reactor Building, Elev. 185'0"

NAMCO Model EA180-31302

Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 86

Plant ID: 2T48-AOV F340

Limit Switches Located in the Reactor Building, Elev. 185'0"

NAMCO Model EA180-31302

Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 87

Plant ID: 2P33-AOV F007

Limit Switches Located in the Torus Room

NAMCO Model EA180-31302

Service: H₂ and O₂ Containment Isolation Valve

TER EQUIPMENT ITEM NO: 87

Plant ID: 2P33-AOV F013

Limit Switches Located in the Torus Room

NAMCO Model EA180-31302

Service: H₂ and O₂ Containment Isolation Valve

TER EQUIPMENT ITEM NO: 87

Plant ID: 2P33-AOV F014

Limit Switches Located in the Torus Room

NAMCO Model EA180-31302

Service: H₂ and O₂ Containment Isolation Valve

TER EQUIPMENT ITEM NO: 87

Plant ID: 2P33-AOV F015

Limit Switches Located in the Torus Room

NAMCO Model EA180-31302

Service: H₂ and O₂ Containment Isolation Valve

TER EQUIPMENT ITEM NO: 87
Plant ID: 2T48-AOV F104
Limit Switches Located in the Torus Room
NAMCO Model EA180-31302
Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 87
Plant ID: 2T48-AOV F113
Limit Switches Located in the Torus Room
NAMCO Model EA180-31302
Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 87
Plant ID: 2T48-AOV F114
Limit Switches Located in the Torus Room
NAMCO Model EA180-31302
Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 87
Plant ID: 2T48-AOV F115
Limit Switches Located in the Torus Room
NAMCO Model EA180-31302
Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 87
Plant ID: 2T48-AOV F116
Limit Switches Located in the Torus Room
NAMCO Model EA180-31302
Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 87
Plant ID: 2T48-AOV F118A,B
Limit Switches Located in the Torus Room
NAMCO Model EA180-31302
Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 87
Plant ID: 2T48-AOV F321
Limit Switches Located in the Torus Room
NAMCO Model EA180-31302
Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 87
Plant ID: 2T48-AOV F322
Limit Switches Located in the Torus Room
NAMCO Model EA180-31302
Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 87

Plant ID: 2T48-AOV F325

Limit Switches Located in the Torus Room

NAMCO Model EA180-31302

Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 87

Plant ID: 2T48-AOV F327

Limit Switches Located in the Torus Room

NAMCO Model EA180-31302

Service: Containment Isolation Valve

TER EQUIPMENT ITEM NO: 88

Plant ID: 2P33-AOV F003

Limit Switches Located in the Reactor Building, Elev. 130'0"

NAMCO Model EA180-31302

Service: H₂ and O₂ Containment Isolation Valve

TER EQUIPMENT ITEM NO: 88

Plant ID: 2P33-AOV F004

Limit Switches Located in the Reactor Building, Elev. 130'0"

NAMCO Model EA180-31302

Service: H₂ and O₂ Containment Isolation Valve

TER EQUIPMENT ITEM NO: 88

Plant ID: 2P33-AOV F011

Limit Switches Located in the Reactor Building, Elev. 130'0"

NAMCO Model EA180-31302

Service: H₂ and O₂ Containment Isolation Valve

TER EQUIPMENT ITEM NO: 88

Plant ID: 2P33-AOV F012

Limit Switches Located in the Reactor Building, Elev. 130'0"

NAMCO Model EA180-31302

Service: H₂ and O₂ Containment Isolation Valve

TER EQUIPMENT ITEM NO: 89

Plant ID: 2P41-AOV F066

Limit Switches Located in the Torus Room

NAMCO Model EA180-31302 & EA180-32302

Service: Plant Service Water Inlet Div. 1

TER EQUIPMENT ITEM NO: 89

Plant ID: 2P41-AOV F067

Limit Switches Located in the Torus Room

NAMCO Model EA180-31302 & EA180-32302

Service: Plant Service Water Inlet Div. 2

TER EQUIPMENT ITEM NO: 89

Plant ID: 2T46-AOV F001B

Limit Switches Located in the Reactor Building, Elev. 185'0"

NAMCO Model EA180-31302 & EA180-323302

Service: Inlet Damper to Filter B

TER EQUIPMENT ITEM NO: 90

Plant ID: C82 Transfer Switch

Control Switch Located in the Reactor Building, Elev. 130'0"

General Electric Model SBI

Service: Transfer Switch

TER EQUIPMENT ITEM NO: 100

Plant ID: 2B21-PS N301A,B,C,D,E,F,G,H,K,L,M

Pressure Switch Located in the Containment

Pressure Controls Inc. Model A17-1P

Service: SRV Monitoring

TER EQUIPMENT ITEM NO: 107

Plant ID: 2E11-PS N017A,B,C,D

Pressure Switch Located in the Northeast & Southeast Corner Room

Model: Static-Ring-O-Ring Model 7924-100

Service: RHR Service Water Valve F068A & B Permissive

TER EQUIPMENT ITEM NO: 133,191

Plant ID: 2T48-PT N003A,B

Pressure Transmitter Located in the Reactor Building, Elev. 158'0"

Rosemount Model 1153GB7

Service: Drywell Pressure Wide Range

TER EQUIPMENT ITEM NO: 133

Plant ID: 2T48-PT N023A,B

Pressure Transmitter Located in the Reactor Building, Elev. 158'0"

Rosemount Model 1153GB6

Service: Drywell Pressure Mid Range

TER EQUIPMENT ITEM NO: 133

Plant ID: 2T48-LT N021A

Pressure Transmitter Located in the RCIC (NW) Corner Room

Rosemount Model 1153DB6

Service: Torus Water Level Narrow Range

TER EQUIPMENT ITEM NO: 133,191

Plant ID: 2T48-PT N020A,B

Pressure Transmitter Located in the Reactor Building, Elev. 158'0"

Rosemount Model 1153GB5

Service: Containment Pressure Narrow Range

TER EQUIPMENT ITEM NO: 133

Plant ID: 2T48-LT N010A

Pressure Transmitter Located in the RCIC(NW) Corner Room

Rosemount Model 1153DB5

Service: Torus Water Level Wide Range

TER EQUIPMENT ITEM NO: 135

Plant ID: 2E21-C001A,B

Electric Motor Located in the Northeast and Southeast Corner Rooms

General Electric Model 5K6339XC117A

Service: Core Spray Pump

TER EQUIPMENT ITEM NO: 135

Plant ID: 2E11-C002A,B,C,D

Electric Motor Located in the Northeast and Southeast Corner Rooms

General Electric Model 5K6339XC115A

Service: RHR Pump

TER EQUIPMENT ITEM NO: 138

Plant ID: 2T41-B002A,B

Electrical Motor Located in the Southeast Corner Room

Joy Manufacturing Reliance Model 36211750

Service: Core Spray and RHR Pump Room Cooling

TER EQUIPMENT ITEM NO: 138

Plant ID: 2T41-B003A,B

Electrical Motor Located in the Northeast Corner Room

Joy Manufacturing Reliance Model 36211750

Service: Core Spray and RHR Pump Room Cooling

TER EQUIPMENT ITEM NO: 138

Plant ID: 2T41-B004A,B

Electrical Motor Located in the RCIC Room

Joy Manufacturing Reliance Model 23141750

Service: RCIC Pump Room Coolers

TER EQUIPMENT ITEM NO: 138

Plant ID: 2T41-B005A,B

Electrical Motor Located in the HPCI Room

Joy Manufacturing Reliance Model 23141750

Service: HPCI Pump Room Coolers

TER EQUIPMENT ITEM NO: 140

Plant ID: 2T52

Electrical Penetration Located Inside/Outside the Drywell, Elev. 151'6"

General Electric Model F01

Service: Cable Penetration

TER EQUIPMENT ITEM NO: 141

Plant ID: 2E32-B001B,F,K,P

Electric Heater Located in the Torus Room

General Electric Model 47D513673

Service: Heater for MSIV Leakage Control System

TER EQUIPMENT ITEM NO: 144

Plant ID: 2D11-RE N003A,B

Radiation Monitor Located in the Containment

Victoreen Model 8771

Service: Containment High Range Radiation Monitoring

TER EQUIPMENT ITEM NO: 145

Plant ID: 2R11-S033

Transformer Located in the Reactor Building Elevation 130'0"

General Electric Model 9T23B3893

Service: MCC 2R24-S012

TER EQUIPMENT ITEM NO: 145

Plant ID: 2R11-S031

Transformer Located in the Reactor Building Elevation 130'0"

General Electric Model 9T23B3893

Service: MCC 2R24-S011

TER EQUIPMENT ITEM NO: 147

Plant ID: 2R24-S018B

Motor Control Center Located in the Reactor Building Elevation 130'0"

Allis Chalmers Model Valueline Mark I

Service: Electrical Power Distribution

TER EQUIPMENT ITEM NO: 147

Plant ID: 2R24-S018A

Motor Control Center Located in the Reactor Building Elevation 130'0"

Allis Chalmers Model Valueline Mark I

Service: Electrical Power Distribution

TER EQUIPMENT ITEM NO: 147

Plant ID: 2R24-S012

Motor Control Center Located in the Reactor Building Elevation 130'0"

Allis Chalmers Model Valueline Mark I

Service: Electrical Power Distribution

TER EQUIPMENT ITEM NO: 147

Plant ID: 2R24-S011

Motor Control Center Located in the Reactor Building Elevation 130'0"

Allis Chalmers Model Valueline Mark I

Service: Electrical Power Distribution

TER EQUIPMENT ITEM NO: 148

Plant ID: 2R27-S093

Motor Starter, DC Located in the Reactor Building Elevation 130'0"

General Electric Model 7700

Service: Electrical Power Distribution

TER EQUIPMENT ITEM NO: 148

Plant ID: 2R27-S096

Motor Starter, DC Located in the Reactor Building Elevation 130'0"

General Electric Model 7700

Service: Electrical Power Distribution

TER EQUIPMENT ITEM NO: 148

Plant ID: 2R24-S022

Motor Starter, DC Located in the Reactor Building Elevation 130'0"

General Electric Model 7700

Service: Electrical Power Distribution

TER EQUIPMENT ITEM NO: 148

Plant ID: 2R24-S021

Motor Starter, DC Located in the Reactor Building Elevation 130'0"

General Electric Model 7700

Service: Electrical Power Distribution

TER EQUIPMENT ITEM NO: 149

Plant ID: 2R27-S095

Motor Starter, DC Located in the HPCI Room

General Electric Model 7700

Service: Motor Power

TER EQUIPMENT ITEM NO: 149

Plant ID: 2R27-S094

Motor Starter, DC Located in the HPCI Room

General Electric Model 7700

Service: Motor Power

TER EQUIPMENT ITEM NO: 150

Plant ID: RPT Switchgear

Switchgear Located in the Reactor Building, Elev. 185'0"

Westinghouse Model 50DHP250

Service: Recirculation Pump Trip

TER EQUIPMENT ITEM NO: 152,154,155

Plant ID: States Type NT

Terminal Block Located Inside/Outside the Drywell

States Model ZWM

Service: Terminal Block

TER EQUIPMENT ITEM NO: 156

Plant ID: PVC Heat Shrink

Electrical Cable Splice Located Outside the Drywell

Raychem Model HVMC5303000

Service: # 2-1/C # 250 MCM

TER EQUIPMENT ITEM NO: 157

Plant ID: PWC Heat Shrink

Electrical Cable Splice Located Outside the Drywell

Raychem Model HVT I A 1 20C

Service: # 2/C & # 3/0 AWG, 8KV, #250 MCM, #350 MCM, #500 MCM

TER EQUIPMENT ITEM NO: 158,159

Plant ID: PWH Heat Shrink

Electrical Cable Splice Located Inside/Outside the Drywell

Raychem Model WCSF1156N

Service: # 9 AWG, 600V

TER EQUIPMENT ITEM NO: 159

Plant ID: PVT Heat Shrink

Electrical Cable Splice Located Inside/Outside the Drywell

Raychem Model WCSF0706N

Service: # 18 to # 10 Gauge Wire

TER EQUIPMENT ITEM NO: 159

Plant ID: PWJ Heat Shrink

Electrical Cable Splice Located Outside the Drywell

Raychem Model WCSF0706N

Service: # 2, # 1, # 10 & # 2/0 AWG 600V

TER EQUIPMENT ITEM NO: 159

Plant ID: PWI Heat Shrink

Electrical Cable Splice Located Outside the Drywell

Raychem Model WCSF0706N

Service: # 6 & # 4 AWG, 600V

TER EQUIPMENT ITEM NO: 159

Plant ID: PWL Heat Shrink

Electrical Cable Splice Located Outside the Drywell

Raychem Model WCSF0706N

Service: # 350 & # 500 MCM, 600V

TER EQUIPMENT ITEM NO: 159

Plant ID: PWK Heat Shrink

Electrical Cable Splice Located Outside the Drywell

Raychem Model WCSF0706N

Service: # 4/0 & 250 MCM, 600V

TER EQUIPMENT ITEM NO: 167

Plant ID: H04

Electrical Cable Instrument Located Inside/Outside the Drywell

Anaconda Wire and Cable Model 600V

Service: Instrumentation

TER EQUIPMENT ITEM NO: 168

Plant ID: N07

Electrical Cable, Instrument Located Outside the Drywell

Brand - Rex Model 600V

Service: Instrumentation

TER EQUIPMENT ITEM NO: 168

Plant ID: N01

Electrical Cable Instrument Located Outside the Drywell

Brand - Rex Model 600V

Service: Instrumentation

TER EQUIPMENT ITEM NO: 168

Plant ID: M19

Electrical Cable Instrument Located Outside the Drywell

Brand - Rex Model 600V

Service: Instrumentation

TER EQUIPMENT ITEM NO: 168

Plant ID: H02

Electrical Cable Instrument Located Outside the Drywell

Brand - Rex Model 600V

Service: Instrumentation

TER EQUIPMENT ITEM NO: 168

Plant ID: H01

Electrical Cable Instrument Located Outside the Drywell

Brand - Rex Model 600V

Service: Instrumentation

TER EQUIPMENT ITEM NO: 169,170,171,172,174

Plant ID: # 14 SIS Vulkene

Electrical Cable Located Outside the Drywell

General Electric Model J15727511

Service: G. E. Panel Wiring

TER EQUIPMENT ITEM NO: 175

Plant ID: B09

Electrical Cable, Power Located Outside the Drywell

Okonite Model 1000V

Service: Power

TER EQUIPMENT ITEM NO: 175

Plant ID: B08

Electrical Cable, Power Located Outside the Drywell

Okonite Model 1000V

Service: Power

TER EQUIPMENT ITEM NO: 175

Plant ID: B07

Electrical Cable, Power Located Outside the Drywell

Okonite Model 1000V

Service: Power

TER EQUIPMENT ITEM NO: 175

Plant ID: B06

Electrical Cable, Power Located Outside the Drywell

Okonite Model 1000V

Service: Power

TER EQUIPMENT ITEM NO: 175

Plant ID: B04

Electrical Cable, Power Located Outside the Drywell

Okonite Model 1000V

Service: Power

TER EQUIPMENT ITEM NO: 175

Plant ID: B03

Electrical Cable, Power Located Outside the Drywell

Okonite Model 1000V

Service: Power

TER EQUIPMENT ITEM NO: 175

Plant ID: B01

Electrical Cable, Power Located Outside the Drywell

Okonite Model 1000V

Service: Power

TFR EQUIPMENT ITEM NO: 175

Plant ID: B17

Electrical Cable, Power Located Outside the Drywell

Okonite Model 1000V

Service: Power

TER EQUIPMENT ITEM NO: 175

Plant ID: B13

Electrical Cable, Power Located Outside the Drywell

Okonite Model 1000V

Service: Power

TER EQUIPMENT ITEM NO: 175

Plant ID: B12

Electrical Cable, Power Located Inside/Outside the Drywell

Okonite Model 1000V

Service: Power

TER EQUIPMENT ITEM NO: 175

Plant ID: B11

Electrical Cable, Power Located Outside the Drywell

Okonite Model 1000V

Service: Power

TER EQUIPMENT ITEM NO: 176

Plant ID: A05

Electrical Cable, Power Located Outside the Drywell

Okonite Model 5000V

Service: Power

TER EQUIPMENT ITEM NO: 176

Plant ID: A06

Electrical Cable, Power Located Outside the Drywell

Okonite Model 5000V

Service: Power

TER EQUIPMENT ITEM NO: 177,178

Plant ID: C20

Electrical Cable, Control Located Inside/Outside the Drywell

Okonite Model 600V

Service: Control

TER EQUIPMENT ITEM NO: 177,178

Plant ID: C19

Electrical Cable, Control Located Inside/Outside the Drywell

Okonite Model 600V

Service: Control

TER EQUIPMENT ITEM NO: 178

Plant ID: C18

Electrical Cable, Control Located Outside the Drywell

Okonite Model 600V

Service: This sheet applies to valves 2E11-AOV F065A,B,C,D Only

TER EQUIPMENT ITEM NO: 178

Plant ID: C17

Electrical Cable, Control Located Inside the Drywell

Okonite Model 600V

Service: Control

TER EQUIPMENT ITEM NO: 178

Plant ID: C21

Electrical Cable, Control Located Outside the Drywell

Okonite Model 600V

Service: Control

TER EQUIPMENT ITEM NO: 178

Plant ID: C25

Electrical Cable, Control Located Outside the Drywell

Okonite Model 600V

Service: Control

TER EQUIPMENT ITEM NO: 178

Plant ID: C24

Electrical Cable, Control Located Outside the Drywell

Okonite Model 600V

Service: Control

TER EQUIPMENT ITEM NO: 178

Plant ID: C22

Electrical Cable, Control Located Outside the Drywell

Okonite Model 600V

Service: Control

TER EQUIPMENT ITEM NO: 178

Plant ID: C23

Electrical Cable, Control Located Outside the Drywell

Okonite Model 600V

Service: Control

TER EQUIPMENT ITEM NO: 178

Plant ID: C33

Electrical Cable, Control Located Outside the Drywell

Okonite Model 600V

Service: Power

TER EQUIPMENT ITEM NO: 178

Plant ID: C30

Electrical Cable, Control Located Outside the Drywell

Okonite Model 600V

Service: Power

TER EQUIPMENT ITEM NO: 178

Plant ID: C29

Electrical Cable, Control Located Outside the Drywell

Okonite Model 600V

Service: Power

TER EQUIPMENT ITEM NO: 178

Plant ID: C27

Electrical Cable, Control Located Outside the Drywell

Okonite Model 600V

Service: Control

TER EQUIPMENT ITEM NO: 178

Plant ID: C26

Electrical Cable, Control Located Outside the Drywell

Okonite Model 600V

Service: Control

TER EQUIPMENT ITEM NO: 178

Plant ID: D09

Electrical Cable, Control Located Outside the Drywell

Okonite Model 600V

Service: Power

TER EQUIPMENT ITEM NO: 178

Plant ID: D08

Electrical Cable, Control Located Outside the Drywell

Okonite Model 600V

Service: Power

TER EQUIPMENT ITEM NO: 178

Plant ID: C42

Electrical Cable, Control Located Outside the Drywell

Okonite Model 600V

Service: Power

TER EQUIPMENT ITEM NO: 178

Plant ID: C40

Electrical Cable, Control Located Outside the Drywell

Okonite Model 600V

Service: Control

TER EQUIPMENT ITEM NO: 178

Plant ID: B02

Electrical Cable, Control Located Outside the Drywell

Okonite Model 600V

Service: Control

TER EQUIPMENT ITEM NO: 178

Plant ID: C36

Electrical Cable, Control Located Outside the Drywell

Okonite Model 600V

Service: Power

TER EQUIPMENT ITEM NO: 178

Plant ID: C32

Electrical Cable, Control Located Outside the Drywell

Okonite Model 600V

Service: Power

TER EQUIPMENT ITEM NO: 178

Plant ID: M13

Electrical Cable, Control Located Outside the Drywell

Okonite Model 600V

Service: Power

TER EQUIPMENT ITEM NO: 178

Plant ID: C21

Electrical Cable, Control Located Inside the Drywell

Okonite Model 600V

Service: Control

TER EQUIPMENT ITEM NO: 178

Plant ID: C11

Electrical Cable, Control Located Outside the Drywell

Okonite Model 600V

Service: Control

TER EQUIPMENT ITEM NO: 179

Plant ID: K01

Electrical Cable, Instrument Located Outside the Drywell

Samuel Moore Model 300V

Service: Instrumentation

TER EQUIPMENT ITEM NO: 180,173

Plant ID: 2D11-RE N003A,B

Electrical Cable, Located in the Containment

Victoreen Model 878-1-5

Service: Radiation Monitoring

TER EQUIPMENT ITEM NO: 187

Plant ID: 2E51-MOV F105

Motorized Valve Actuator Located in the Torus Room
Limitorque Model SMB, AC Service, Class B Insulation
Service: Exhaust to Torus Penetration

TER EQUIPMENT ITEM NO: 187

Plant ID: 2E11-MOV F140A,B

Motorized Valve Actuator Located in the Torus Room
Limitorque Model SMB, AC Service, Class B Insulation
Service: HPCI Discharge to HX A and HX B

TER EQUIPMENT ITEM NO: 188

Plant ID: 2E11-MOV F015A,B

Motorized Valve Actuator Located in the Pipe Penetration Room
Limitorque Model SMB, AC Service, Class RH Insulation
Service: LPCI Discharge Valve

TER EQUIPMENT ITEM NO: 189

Plant ID: 2T48-MOV F027

Motorized Valve Actuator Located in the Reactor Building, Elev. 130'0"
Limitorque Model SMB00
Service: Nitrogen Inerting

TER EQUIPMENT ITEM NO: 192

Plant ID: 2E11-MOV F028A,B

Motorized Valve Actuator Located in the Torus Room
Limitorque Model SMB, AC Service, Class B Insulation
Service: Inlet to Support Pool

The following equipment was not addressed in Franklin Research Center's Technical Evaluation Report. However, the equipment is part of Georgia Power Company's I. E. Bulletin 79-01B Qualified Equipment List.

Plant ID: 2D11-AOV F051
Limit Switches Located in the Pipe Penetration Room
NAMCO Model EA180-31302
Service: Fission Products Sample Isolation Vlv.

Plant ID: 2D11-AOV F053
Limit Switches Located in the Pipe Penetration Room
NAMCO Model EA180-31302
Service: Fission Products Sample Isolation Vlv.

Plant ID: 2P33-AOV F005
Limit Switches Located in the Torus Room
NAMCO Model EA180-31302
Service: H₂ and O₂ Containment Isolation Vlv.

Plant ID: C35
Power Cable Located Outside the Drywell
Okonite Model 4/C - # 4 AWG 600-V Insulation
Service: Power

Plant ID: C41
Power Cable Located Outside the Drywell
Okonite Model 5/C - # 9 AWG 600-V Insulation
Service: Power

Plant ID: PWD Heat Shrink
Electrical Cable Splice Located Outside the Drywell
Raychem Corp. Model HVT-I-A-1-20E
Service: # 350 MCM, 8KV

Plant ID: PWE Heat Shrink
Electrical Cable Splice Sleeve Located Outside the Drywell
Raychem Corp. Model HVT-I-A-2-20F
Service: # 500 MCM, 8KV

Plant ID: Terminal Tape
Insulating Tape Located Outside the Drywell
Okonite Model T95 Insulating Tape
Service: Insulation of Termination and Splices

Plant ID: Jacketing Tape
Protective Tape Located Outside the Drywell
Okonite Model T35 Jacketing Tape
Service: Protection of Termination and Splices

Plant ID: PWD Heat Shrink
Wire and Cable Located Outside the Drywell
Raychem Corp. Model HVT-I-A-1-20E
Service: # 350 MCM, 8KV

Plant ID: PWE Heat Shrink
Wire and Cable Sleeve Located Outside the Drywell
Raychem Corp. Model HVT-I-A-2-20F
Service: # 500 MCM, 8KV

Plant ID: Terminal Tape
Insulating Tape Located Outside the Drywell
Okonite Model T95 Insulating Tape
Service: Insulation of Termination and Splices

Plant ID: Jacketing Tape
Protective Tape Located Outside the Drywell
Okonite Model T35 Jacketing Tape
Service: Protection of Termination and Splices

Plant ID: PWB Heat Shrink
Electrical Cable Splice Located Outside the Drywell
Raychem Corp. Model HVT-I-A-1-20C
Service: Insulation of Termination and Splices

The following equipment is part of new design changes and not presently installed. However, when installed this equipment will be added to the I. E. Bulletin 79-01B Equipment List and will be qualified.

Plant ID: 2P70-PS N006A,B
Pressure Switch Located in Reactor Building, Elev. 158' 0"
ITT Barton Model 580A-2
Service: Air Receiver 2P70-A001

Plant ID: 2P70-FT N020A,B
Flow Transmitter Located in Reactor Building, Elev. 158' 0"
Rosemount Model 1153-DB3PA
Service: Drywell Pneumatic System High Flow Isolation

Plant ID: 2P70-FT N022A,B
Flow Transmitter Located in Reactor Building, Elev. 130' 0"
Rosemount Model 1153-DB3PA
Service: Drywell Pneumatic System High Flow Isolation

Plant ID: 2C11-SV F040
Solenoid Valve Located in Reactor Building, Elev. 130' 0"
ASCO Model NP8323A22E
Service: Scram Discharge Valve Isolation

Plant ID: 2P70-SV F004
Solenoid Valve Located in Reactor Building, Elev. 130' 0"
Target Rock Model 1121010
Service: Drywell Pneumatic System High Flow Isolation

Plant ID: 2P70-SV F005
Solenoid Valve Located in Reactor Building, Elev. 130' 0"
Target Rock Model 1121010
Service: Drywell Pneumatic System High Flow Isolation

Plant ID: 2P70-SV F066
Solenoid Valve Located in Reactor Building, Elev. 158' 0"
Target Rock Model 1121010
Service: Drywell Pneumatic System High Flow Isolation

Plant ID: 2P70-SV F067
Solenoid Valve Located in Reactor Building, Elev. 158' 0"
Target Rock Model 1121010
Service: Drywell Pneumatic System High Flow Isolation

Plant ID: 2P70-SV F001B
Solenoid Valve Located in Reactor Building, Elev. 158' 0"
Valcor Model V526-5920-5
Service: Backup Nitrogen Supply Line

Plant ID: 2E11-SV F213
Solenoid Valve Located in Reactor Building, Elev. 130' 0"
ASCO Model NP8320A185E
Service: Pilot Valve for Q2E11-AOV F041A

Plant ID: 2E11-SV F214
Solenoid Valve Located in Reactor Building, Elev. 130' 0"
ASCO Model NP8320A185E
Service: Pilot Valve for Q2E11-AOV F041A

Plant ID: 2E11-SV F215
Solenoid Valve Located in Reactor Building, Elev. 130' 0"
ASCO Model NP8320A185E
Service: Pilot Valve for Q2E11-AOV F041B

Plant ID: 2E11-SV F216
Solenoid Valve Located in Reactor Building, Elev. 130' 0"
ASCO Model NP8320A185E
Service: Pilot Valve for Q2E11-AOV F041B

Plant ID: 2E11-SV F217
Solenoid Valve Located in Reactor Building, Elev. 130' 0"
ASCO Model NP8320A185E
Service: Pilot Valve for Q2E11-AOV F041C

Plant ID: 2E11-SV F218
Solenoid Valve Located in Reactor Building, Elev. 130' 0"
ASCO Model NP8320A185E
Service: Pilot Valve for Q2E11-AOV F041C

Plant ID: 2E11-SV F219
Solenoid Valve Located in Reactor Building, Elev. 130' 0"
ASCO Model NP8320A185E
Service: Pilot Valve for Q2E11-AOV F041D

Plant ID: 2E11-SV F220
Solenoid Valve Located in Reactor Building, Elev. 130' 0"
ASCO Model NP8320A185E
Service: Pilot Valve for Q2E11-AOV F041D

Plant ID: 2E11-AOV F041A,B,C,D
Limit Switches Located in Reactor Building, Elev. 130' 0"
NAMCO Model EA180-31302
Service: Sensing Line Isolation

SECTION C

EQUIPMENT REQUIRING QUALIFICATION CLARIFICATIONS

INTRODUCTION

This section provides the information and the clarifications required to address the discrepancies identified by the Nuclear Regulatory Commission (NRC) in the Environmental Qualification Safety Evaluation Report (SER).

Equipment identified by the NRC as requiring information and/or clarifications are those in NRC Qualification Categories I.b. - Equipment Qualification Pending Modification, II.a. - Equipment Qualification Not Established, II.b - Equipment Not Qualified and II.c - Equipment satisfies all requirements except qualified life or replacement schedule justified. The NRC has not classified any Plant Hatch Unit 1 equipment as Qualification Category II.b Georgia Power Company's thirty (30) day response to the NRC Safety Evaluation Report, Revision 0, dated May 6, 1983 addresses the NRC Discrepancy(s) for equipment in Qualification Categories I.b and II.a. Therefore, this section only addresses equipment in Qualification Category II.c.

The plant identification numbers, locations, manufacturers, model numbers, and plant services are listed for each individual TER equipment item number, followed by the discrepancy(s) noted in the Technical Evaluation Report (TER). The NRC discrepancy(s) is (are) addressed in the clarification section.

TER EQUIPMENT ITEM NO. 2

Motorized Valve Actuator Located in the Torus Room

Plant ID: 2E11-MOV F024A,B

Limitorque Model SMB, AC Service, Class RH Insulation

Service: RHR Testline Valves

NRC DISCREPANCY

Aging Degradation Evaluated Adequately

Qualified Life or Replacement Scheduled Established

- A. The licensee has not provided documented evidence from the manufacturer that the installed equipment and the test specimen(s) in the referenced report(s) are similar. The licensee has identified only two motorized valve actuators that incorporate a motor-brake assembly, yet has reference several reports which tested motorized valve actuators equipped with such devices. The licensee should obtain the information necessary to establish similarity, or submit the same if it is already in their central file (also referencing this information on the System Component Evaluation Worksheets (SCEWs)).
- B. The licensee has cited B0058 for many equipment items in an effort to establish similarity between the installed and tested equipment. It should be noted that Limitorque's generic qualification program is acceptable, but that this report does not in itself establish similarity, nor does it establish a qualified life estimate for this equipment. In order to establish a qualified life estimate for this equipment, the licensee must completely identify the installed components (i.e. motor lead insulation, type of torque switch) and then calculate a qualified life based on available information. This available information can come from either testing performed prior to environmental testing or from published data. None of the referenced reports have calculated a qualified life estimate based on an acceptable technique. It should also be noted that the thermal aging that has been performed has been done on individual components or simulates only a fraction of the qualified life claimed. No basis has been stated on the report(s) for the times or temperatures chosen for the thermal aging performed. Particular attention should be given to the motor-brake assembly (if any) and the motor lead insulation where Teflon has been used in some cases.

CLARIFICATION

Documented evidence establishing similarity between the installed equipment and the test specimen is provided by the manufacturer and can be found in Georgia Power Company's Qualification Documentation Files.

TER EQUIPMENT ITEM NO. 2 (Continued)

Additionally, FRC states that a qualified life has not been established in an acceptable manner. The DOR Guidelines do not require a qualified life to be established for all equipment.

Georgia Power Company has performed further evaluation of age sensitive components and, using available test data and published data, established a qualified life in accordance with the requirements of the DOR Guidelines. Therefore, this equipment is considered qualified and Justification for Continued Operation is not required.

TER EQUIPMENT ITEM NO. 3

Motorized Valve Actuator Located in the Reactor Building Elev. 185'0"

Plant ID: 2E11-MOV F023

Limitorque Model SMB, DC Service, Class H Insulation

Service: Vessel Head Spray Isolation Valve

NRC DISCREPANCY

Aging Degradation Evaluated Adequately

Qualified Life or Replacement Scheduled Established

- A. The licensee has not provided documented evidence from the manufacturer that the installed equipment and the test specimen(s) in the referenced report(s) are similar. The licensee has identified only two motorized valve actuators that incorporate a motor-brake assembly, yet has reference several reports which tested motorized valve actuators equipped with such devices. The licensee should obtain the information necessary to establish similarity, or submit the same if it is already in their central file (also referencing this information on the System Component Evaluation Worksheets (SCEWs)).
- B. The licensee has cited B0058 for many equipment items in an effort to establish similarity between the installed and tested equipment. It should be noted that Limitorque's generic qualification program is acceptable, but that this report does not in itself establish similarity, nor does it establish a qualified life estimate for this equipment. In order to establish a qualified life estimate for this equipment, the licensee must completely identify the installed components (i.e. motor lead insulation, type of torque switch) and then calculate a qualified life based on available information. This available information can come from either testing performed prior to environmental testing or from published data. None of the referenced reports have calculated a qualified life estimate based on an acceptable technique. It should also be noted that the thermal aging that has been performed has been done on individual components or simulates only a fraction of the qualified life claimed. No basis has been stated on the report(s) for the times or temperatures chosen for the thermal aging performed. Particular attention should be given to the motor-brake assembly (if any) and the motor lead insulation where Teflon has been used in some cases.

CLARIFICATION

Documented evidence establishing similarity between the installed equipment and the test specimen is provided by the manufacturer and can be found in Georgia Power Company's Qualification Documentation Files.

TER EQUIPMENT ITEM NO. 3 (Continued)

Additionally, FRC states that a qualified life has not been established in an acceptable manner. The DOR Guidelines do not require a qualified life to be established for all equipment.

Georgia Power Company has performed further evaluation of age sensitive components and, using available test data and published data, established a qualified life in accordance with the requirements of the DOR Guidelines. Therefore, this equipment is considered qualified and Justification for Continued Operation is not required.

TER EQUIPMENT ITEM NO. 4

Motorized Valve Actuator Located in the Pipe Penetration Room

Plant ID: 2E41-MOV F003

Limitorque Model SMB, DC Service, Class H Insulation

Service: Steam Supply Outboard Isolation Valve

NRC DISCREPANCY

Aging Degradation Evaluated Adequately

Qualified Life or Replacement Scheduled Established

- A. The licensee has not provided documented evidence from the manufacturer that the installed equipment and the test specimen(s) in the referenced report(s) are similar. The licensee has identified only two motorized valve actuators that incorporate a motor-brake assembly, yet has reference several reports which tested motorized valve actuators equipped with such devices. The licensee should obtain the information necessary to establish similarity, or submit the same if it is already in their central file (also referencing this information on the System Component Evaluation Worksheets (SCEWs)).
- B. The licensee has cited B0058 for many equipment items in an effort to establish similarity between the installed and tested equipment. It should be noted that Limitorque's generic qualification program is acceptable, but that this report does not in itself establish similarity, nor does it establish a qualified life estimate for this equipment. In order to establish a qualified life estimate for this equipment, the licensee must completely identify the installed components (i.e. motor lead insulation, type of torque switch) and then calculate a qualified life based on available information. This available information can come from either testing performed prior to environmental testing or from published data. None of the referenced reports have calculated a qualified life estimate based on an acceptable technique. It should also be noted that the thermal aging that has been performed has been done on individual components or simulates only a fraction of the qualified life claimed. No basis has been stated on the report(s) for the times or temperatures chosen for the thermal aging performed. Particular attention should be given to the motor-brake assembly (if any) and the motor lead insulation where Teflon has been used in some cases.

CLARIFICATION

Documented evidence establishing similarity between the installed equipment and the test specimen is provided by the manufacturer and can be found in Georgia Power Company's Qualification Documentation Files.

TER EQUIPMENT ITEM NO. 4 (Continued)

Additionally, FRC states that a qualified life has not been established in an acceptable manner. The DOR Guidelines do not require a qualified life to be established for all equipment.

Georgia Power Company has performed further evaluation of age sensitive components and, using available test data and published data, established a qualified life in accordance with the requirements of the DOR Guidelines. Therefore, this equipment is considered qualified and Justification for Continued Operation is not required.

TER EQUIPMENT ITEM NO. 9

Motorized Valve Actuator Located in the Reactor Building, Elev. 158'0"

Plant ID: 2G31-MOV F004

Limitorque Model SMB, DC Service, Class H Insulation

Service: Downstream Isolation Valve

NRC DISCREPANCY

Aging Degradation Evaluated Adequately

Qualified Life or Replacement Scheduled Established

- A. The licensee has not provided documented evidence from the manufacturer that the installed equipment and the test specimen(s) in the referenced report(s) are similar. The licensee has identified only two motorized valve actuators that incorporate a motor-brake assembly, yet has reference several reports which tested motorized valve actuators equipped with such devices. The licensee should obtain the information necessary to establish similarity, or submit the same if it is already in their central file (also referencing this information on the System Component Evaluation Worksheets (SCEWs)).
- B. The licensee has cited B0058 for many equipment items in an effort to establish similarity between the installed and tested equipment. It should be noted that Limitorque's generic qualification program is acceptable, but that this report does not in itself establish similarity, nor does it establish a qualified life estimate for this equipment. In order to establish a qualified life estimate for this equipment, the licensee must completely identify the installed components (i.e. motor lead insulation, type of torque switch) and then calculate a qualified life based on available information. This available information can come from either testing performed prior to environmental testing or from published data. None of the referenced reports have calculated a qualified life estimate based on an acceptable technique. It should also be noted that the thermal aging that has been performed has been done on individual components or simulates only a fraction of the qualified life claimed. No basis has been stated on the report(s) for the times or temperatures chosen for the thermal aging performed. Particular attention should be given to the motor-brake assembly (if any) and the motor lead insulation where Teflon has been used in some cases.

CLARIFICATION

Documented evidence establishing similarity between the installed equipment and the test specimen is provided by the manufacturer and can be found in Georgia Power Company's Qualification Documentation Files.

TER EQUIPMENT ITEM NO. 9 (Continued)

Additionally, FRC states that a qualified life has not been established in an acceptable manner. The DOR Guidelines do not require a qualified life to be established for all equipment.

Georgia Power Company has performed further evaluation of age sensitive components and, using available test data and published data, established a qualified life in accordance with the requirements of the DOR Guidelines. Therefore, this equipment is considered qualified and Justification for Continued Operation is not required.

TER EQUIPMENT ITEM NO. 11

Motorized Valve Actuator Located in the RWCU HX Room

Plant ID: 2E21-MOV F004B

Limitorque Model SMB, AC Service, Class H Insulation

Service: Core Spray Outboard Valve

Plant ID: 2E21-MOV F004A*

Limitorque Model SMB, AC Service, Class H Insulation

Service: Core Spray Outboard Valve

NRC DISCREPANCY

Aging Degradation Evaluated Adequately

Qualified Life or Replacement Scheduled Established

- A. The licensee has not provided documented evidence from the manufacturer that the installed equipment and the test specimen(s) in the referenced report(s) are similar. The licensee has identified only two motorized valve actuators that incorporate a motor-brake assembly, yet has reference several reports which tested motorized valve actuators equipped with such devices. The licensee should obtain the information necessary to establish similarity, or submit the same if it is already in their central file (also referencing this information on the System Component Evaluation Worksheets (SCEWs)).
- B. The licensee has cited B0058 for many equipment items in an effort to establish similarity between the installed and tested equipment. It should be noted that Limitorque's generic qualification program is acceptable, but that this report does not in itself establish similarity, nor does it establish a qualified life estimate for this equipment. In order to establish a qualified life estimate for this equipment, the licensee must completely identify the installed components (i.e. motor lead insulation, type of torque switch) and then calculate a qualified life based on available information. This available information can come from either testing performed prior to environmental testing or from published data. None of the referenced reports have calculated a qualified life estimate based on an acceptable technique. It should also be noted that the thermal aging that has been performed has been done on individual components or simulates only a fraction of the qualified life claimed. No basis has been stated on the report(s) for the times or temperatures chosen for the thermal aging performed. Particular attention should be given to the motor-brake assembly (if any) and the motor lead insulation where Teflon has been used in some cases.

* The location for this valve is Reactor Building Elev. 158'0"

TER EQUIPMENT ITEM NO. 11 (Continued)

- C. However, it is noted that the accident environment is relatively "non-harsh" and that any combination of components which could be found in Limitorque motorized valve actuators should be able to withstand these conditions. Due to this fact, the only deficiency that exists is that of qualified life.

CLARIFICATION

Georgia Power Company has identified the above equipment as not having sufficient documentation to establish qualification. The actuator and motor for the MOV will be replaced with a qualified actuator and motor prior to or during the Unit 2 - 1984 Refueling Outage.

Justification for Continued Operation for this item has been previously submitted to the NRC in Georgia Power Company's response to NRC I. E. Bulletin 79-01B - Environmental Qualification of Class 1E Equipment, Revision 4, dated January 8, 1982 for Edwin I. Hatch Nuclear Plant - Unit 2. The Justification can be found in Section B.3.1.1, on Page 21 and is still applicable.

TER EQUIPMENT ITEM NO. 12

Motorized Valve Actuator Located in the Pipe Penetration Room

Plant ID: 2E11-MOV FO17A,B

Limitorque Model SMB, AC Service, Class RH Insulation

Service: LPCI Discharge Valve

NRC DISCREPANCY

Aging Degradation Evaluated Adequately

Qualified Life or Replacement Scheduled Established

- A. The licensee has not provided documented evidence from the manufacturer that the installed equipment and the test specimen(s) in the referenced report(s) are similar. The licensee has identified only two motorized valve actuators that incorporate a motor-brake assembly, yet has reference several reports which tested motorized valve actuators equipped with such devices. The licensee should obtain the information necessary to establish similarity, or submit the same if it is already in their central file (also referencing this information on the System Component Evaluation Worksheets (SCEWs)).
- B. The licensee has cited B0058 for many equipment items in an effort to establish similarity between the installed and tested equipment. It should be noted that Limitorque's generic qualification program is acceptable, but that this report does not in itself establish similarity, nor does it establish a qualified life estimate for this equipment. In order to establish a qualified life estimate for this equipment, the licensee must completely identify the installed components (i.e. motor lead insulation, type of torque switch) and then calculate a qualified life based on available information. This available information can come from either testing performed prior to environmental testing or from published data. None of the referenced reports have calculated a qualified life estimate based on an acceptable technique. It should also be noted that the thermal aging that has been performed has been done on individual components or simulates only a fraction of the qualified life claimed. No basis has been stated on the report(s) for the times or temperatures chosen for the thermal aging performed. Particular attention should be given to the motor-brake assembly (if any) and the motor lead insulation where Teflon has been used in some cases.

CLARIFICATION

Documented evidence establishing similarity between the installed equipment and the test specimen is provided by the manufacturer and can be found in Georgia Power Company's Qualification Documentation Files.

TER EQUIPMENT ITEM NO. 12 (Continued)

Additionally, FRC states that a qualified life has not been established in an acceptable manner. The DOR Guidelines do not require a qualified life to be established for all equipment.

Georgia Power Company has performed further evaluation of age sensitive components and, using available test data and published data, established a qualified life in accordance with the requirements of the DOR Guidelines. Therefore, this equipment is considered qualified and Justification for Continued Operation is not required.

TER EQUIPMENT ITEM NO. 16

Motorized Valve Actuator Located in the RWCU HX Room

Plant ID: 2E21-MOV F005B

Limatorque Model SMB, AC Service, Class RH Insulation

Service: Core Spray Inboard Valve

Plant ID: 2E21-MOV F005A*

Limatorque Model SMB, AC Service, Class RH Insulation

Service: Core Spray Inboard Valve

NRC DISCREPANCY

Aging Degradation Evaluated Adequately

Qualified Life or Replacement Scheduled Established

- A. The licensee has not provided documented evidence from the manufacturer that the installed equipment and the test specimen(s) in the referenced report(s) are similar. The licensee has identified only two motorized valve actuators that incorporate a motor-brake assembly, yet has reference several reports which tested motorized valve actuators equipped with such devices. The licensee should obtain the information necessary to establish similarity, or submit the same if it is already in their central file (also referencing this information on the System Component Evaluation Worksheets (SCEWs)).
- B. The licensee has cited B0058 for many equipment items in an effort to establish similarity between the installed and tested equipment. It should be noted that Limatorque's generic qualification program is acceptable, but that this report does not in itself establish similarity, nor does it establish a qualified life estimate for this equipment. In order to establish a qualified life estimate for this equipment, the licensee must completely identify the installed components (i.e. motor lead insulation, type of torque switch) and then calculate a qualified life based on available information. This available information can come from either testing performed prior to environmental testing or from published data. None of the referenced reports have calculated a qualified life estimate based on an acceptable technique. It should also be noted that the thermal aging that has been performed has been done on individual components or simulates only a fraction of the qualified life claimed. No basis has been stated on the report(s) for the times or temperatures chosen for the thermal aging performed. Particular attention should be given to the motor-brake assembly (if any) and the motor lead insulation where Teflon has been used in some cases.

* Location of this valve is Reactor Building. Elev. 158'0"

TER EQUIPMENT ITEM NO. 16 (Continued)

CLARIFICATION

Georgia Power Company has identified the above equipment as not having sufficient documentation to establish qualification. The actuator and motor for the MOV will be replaced with a qualified actuator and motor prior to or during the Unit 2 - 1984 Refueling Outage.

Justification for Continued Operation for this item has been previously submitted to the NRC in Georgia Power Company's response to NRC I. E. Bulletin 79-01B - Environmental Qualification of Class 1E Equipment, Revision 4, dated January 8, 1982 for Edwin I. Hatch Nuclear Plant - Unit 2. The Justification can be found in Section B.3.1.1, on Page 21 and is still applicable.

TER EQUIPMENT ITEM NO. 17

Motorized Valve Actuator Located in the HPCI Room

Plant ID: 2E41-MOV F001

Limatorque Model SMB, DC Service, Class B Insulation
Service: System Isolation Valve

Plant ID: 2E41-MOV F041

Limatorque Model SMB, DC Service, Class B Insulation
Service: Pump Suction from Suppression Pool

Plant ID: 2E41-MOV F059

Limatorque Model SMB, DC Service, Class B Insulation
Service: Booster Pump Discharge to Barometric Condenser

Plant ID: 2E41-MOV F007

Limatorque Model SMB, DC Service, Class B Insulation
Service: HPCI Pump Outboard Discharge Valve

NRC DISCREPANCY

Aging Degradation Evaluated Adequately

Qualified Life or Replacement Scheduled Established

- A. The licensee has not provided documented evidence from the manufacturer that the installed equipment and the test specimen(s) in the referenced report(s) are similar. The licensee has identified only two motorized valve actuators that incorporates a motor-brake assembly, yet has reference several reports which tested motorized valve actuators equipped with such devices. The licensee should obtain the information necessary to establish similarity, or submit the same if it is already in their central file (also referencing this information on the System Component Evaluation Worksheets (SCEWs)).
- B. The licensee has cited B0058 for many equipment items in an effort to establish similarity between the installed and tested equipment. It should be noted that Limatorque's generic qualification program is acceptable, but that this report does not in itself establish similarity, nor does it establish a qualified life estimate for this equipment. In order to establish a qualified life estimate for this equipment, the licensee must completely identify the installed components (i.e. motor lead insulation, type of torque switch) and then calculate a qualified life based on available information. This available information can come from either testing performed prior to environmental testing or from published data. None of the referenced reports have calculated a qualified life estimate based on an acceptable technique. It should also be noted that the thermal aging that has been performed has been done on individual components or simulates only a fraction of the qualified life claimed. No basis has been stated on the report(s) for the times or temperatures chosen for the thermal aging performed. Particular attention should be given to the motor-brake assembly (if any) and the motor lead insulation where Teflon has been used in some cases.

TER EQUIPMENT ITEM NO. 17 (Continued)

- C. However, it is noted that the accident environment is relatively "non-harsh" and that any combination of components which could be found in Limitorque motorized valve actuators should be able to withstand these conditions. Due to this fact, the only deficiency that exists is that of qualified life.

CLARIFICATION

Documented evidence establishing similarity between the installed equipment and the test specimen is provided by the manufacturer and can be found in Georgia Power Company's Qualification Documentation Files.

Additionally, FRC states that a qualified life has not been established in an acceptable manner. The DOR Guidelines do not require a qualified life to be established for all equipment.

Georgia Power Company has performed further evaluation of age sensitive components and, using available test data and published data, established a qualified life in accordance with the requirements of the DOR Guidelines. Therefore, this equipment is considered qualified and Justification for Continued Operation is not required.

TER EQUIPMENT ITEM NO. 1C

Motorized Valve Actuator Located in the Northeast and Southeast Corner Rooms

Plant ID: 2E11-MOV F011A,B
Limitorque Model SMB, AC Service, Class B Insulation
Service: RHR HX A & B to RCIC

Plant ID: 2E11-MOV F026A,B
Limitorque Model SMB, AC Service, Class B Insulation
Service: RHR HX A & B to RCIC

Plant ID: 2E11-MOV F003B
Limitorque Model SMB, AC Service, Class B Insulation
Service: Heat Exchanger Discharge Valve

Plant ID: 2E11-MOV F048A,B
Limitorque Model SMB, AC Service, Class B Insulation
Service: RHR HX A & B Bypass Valve

Plant ID: 2E11-MOV F004A,B,C,D
Limitorque Model SMB, AC Service, Class B Insulation
Service: RHR Pump C002A,B,C,D Suction Valve

Plant ID: 2E11-MOV F006B
Limitorque Model SMB, AC Service, Class B Insulation
Service: Shutdown Cooling Suction Isolation Valve

Plant ID: 2E11-MOV F007A,B
Limitorque Model SMB, AC Service, Class B Insulation
Service: Pump C002A&C Minimum Flow Bypass

Plant ID: 2E11-MOV F006A,C,D
Limitorque Model SMB, AC Service, Class B Insulation
Service: Shutdown Cooling Suction Isolation Valve

Plant ID: 2E11-MOV F047A,B
Limitorque Model SMB, AC Service, Class B Insulation
Service: RHR HX A & B to Inlet Valve

Plant ID: 2E21-MOV F001A,B
Limitorque Model SMB, AC Service, Class B Insulation
Service: Pump C001A,B Valve

Plant ID: 2E21-MOV F015A,B
Limitorque Model SMB, AC Service, Class B Insulation
Service: Test Bypass Valve

Plant ID: 2E21-MOV F031A,B
Limitorque Model SMB, AC Service, Class B Insulation
Service: Minimum Flow Bypass Valve

TER EQUIPMENT ITEM NO. 18 (Continued)

Plant ID: 2E11-MOV F104A,B
Limitorque Model SMB, AC Service, Class B Insulation
Service: RHR HX A & B Ventilation

Plant ID: 2E11-MOV F103A,B
Limitorque Model SMB, AC Service, Class B Insulation
Service: RHR HX A & B Ventilation

NRC DISCREPANCY

Aging Degradation Evaluated Adequately
Qualified Life or Replacement Scheduled Established

- A. The licensee has not provided documented evidence from the manufacturer that the installed equipment and the test specimen(s) in the referenced report(s) are similar. The licensee has identified only two motorized valve actuators that incorporate a motor-brake assembly, yet has reference several reports which tested motorized valve actuators equipped with such devices. The licensee should obtain the information necessary to establish similarity, or submit the same if it is already in their central file (also referencing this information on the System Component Evaluation Worksheets (SCEWs)).
- B. The licensee has cited B0058 for many equipment items in an effort to establish similarity between the installed and tested equipment. It should be noted that Limitorque's generic qualification program is acceptable, but that this report does not in itself establish similarity, nor does it establish a qualified life estimate for this equipment. In order to establish a qualified life estimate for this equipment, the licensee must completely identify the installed components (i.e. motor lead insulation, type of torque switch) and then calculate a qualified life based on available information. This available information can come from either testing performed prior to environmental testing or from published data. None of the referenced reports have calculated a qualified life estimate based on an acceptable technique. It should also be noted that the thermal aging that has been performed has been done on individual components or simulates only a fraction of the qualified life claimed. No basis has been stated on the report(s) for the times or temperatures chosen for the thermal aging performed. Particular attention should be given to the motor-brake assembly (if any) and the motor lead insulation where Teflon has been used in some cases.
- C. However, it is noted that the accident environment is relatively "non-harsh" and that any combination of components which could be found in Limitorque motorized valve actuators should be able to withstand these conditions. Due to this fact, the only deficiency that exists is that of qualified life.

TER EQUIPMENT ITEM NO. 18 (Continued)

CLARIFICATION

Documented evidence establishing similarity between the installed equipment and the test specimen is provided by the manufacturer and can be found in Georgia Power Company's Qualification Documentation Files.

Additionally, FRC states that a qualified life has not been established in an acceptable manner. The DOR Guidelines do not require a qualified life to be established for all equipment.

Georgia Power Company has performed further evaluation of age sensitive components and, using available test data and published data, established a qualified life in accordance with the requirements of the DOR Guidelines. Therefore, this equipment is considered qualified and Justification for Continued Operation is not required.

TER EQUIPMENT ITEM NO. 19

Motorized Valve Actuator Located in the Torus Room

Plant ID: 2E11-MOV F091A,B

Limiterque Model SMB, AC Service, Class RH Insulation

Service: HPCI Discharge to HX A & B

NRC DISCREPANCY

Aging Degradation Evaluated Adequately

Qualified Life or Replacement Scheduled Established

- A. The licensee has not provided documented evidence from the manufacturer that the installed equipment and the test specimen(s) in the referenced report(s) are similar. The licensee has identified only two motorized valve actuators that incorporate a motor-brake assembly, yet has reference several reports which tested motorized valve actuators equipped with such devices. The licensee should obtain the information necessary to establish similarity, or submit the same if it is already in their central file (also referencing this information on the System Component Evaluation Worksheets (SCEWs)).
- B. The licensee has cited B0058 for many equipment items in an effort to establish similarity between the installed and tested equipment. It should be noted that Limitorque's generic qualification program is acceptable, but that this report does not in itself establish similarity, nor does it establish a qualified life estimate for this equipment. In order to establish a qualified life estimate for this equipment, the licensee must completely identify the installed components (i.e. motor lead insulation, type of torque switch) and then calculate a qualified life based on available information. This available information can come from either testing performed prior to environmental testing or from published data. None of the referenced reports have calculated a qualified life estimate based on an acceptable technique. It should also be noted that the thermal aging that has been performed has been done on individual components or simulates only a fraction of the qualified life claimed. No basis has been stated on the report(s) for the times or temperatures chosen for the thermal aging performed. Particular attention should be given to the motor-brake assembly (if any) and the motor lead insulation where Teflon has been used in some cases.

CLARIFICATION

Documented evidence establishing similarity between the installed equipment and the test specimen is provided by the manufacturer and can be found in Georgia Power Company's Qualification Documentation Files.

TER EQUIPMENT ITEM NO. 19 (Continued)

Additionally, FRC states that a qualified life has not been established in an acceptable manner. The DOR Guidelines do not require a qualified life to be established for all equipment.

Georgia Power Company has performed further evaluation of age sensitive components and, using available test data and published data, established a qualified life in accordance with the requirements of the DOR Guidelines. Therefore, this equipment is considered qualified and Justification for Continued Operation is not required.

TER EQUIPMENT ITEM NO. 29

Motorized Valve Actuator Located in the Reactor Building, Elev. 185'0"

Plant ID: 2T49-MOV F002A,B

Limitorque Model SMB, AC Service, Class B Insulation

Service: Gas from Drywell Outboard Isolation Valve

Plant ID: 2T49-MOV F001A,B

Limitorque Model SMB, AC Service, Class B Insulation

Service: Gas from Drywell Outboard Isolation Valve

NRC DISCREPANCY

Aging Degradation Evaluated Adequately

Qualified Life or Replacement Scheduled Established

- A. The licensee has not provided documented evidence from the manufacturer that the installed equipment and the test specimen(s) in the referenced report(s) are similar. The licensee has identified only two motorized valve actuators that incorporate a motor-brake assembly, yet has reference several reports which tested motorized valve actuators equipped with such devices. The licensee should obtain the information necessary to establish similarity, or submit the same if it is already in their central file (also referencing this information on the System Component Evaluation Worksheets (SCEWs)).
- B. The licensee has cited B0058 for many equipment items in an effort to establish similarity between the installed and tested equipment. It should be noted that Limitorque's generic qualification program is acceptable, but that this report does not in itself establish similarity, nor does it establish a qualified life estimate for this equipment. In order to establish a qualified life estimate for this equipment, the licensee must completely identify the installed components (i.e. motor lead insulation, type of torque switch) and then calculate a qualified life based on available information. This available information can come from either testing performed prior to environmental testing or from published data. None of the referenced reports have calculated a qualified life estimate based on an acceptable technique. It should also be noted that the thermal aging that has been performed has been done on individual components or simulates only a fraction of the qualified life claimed. No basis has been stated on the report(s) for the times or temperatures chosen for the thermal aging performed. Particular attention should be given to the motor-brake assembly (if any) and the motor lead insulation where Teflon has been used in some cases.

TER EQUIPMENT ITEM NO. 29 (Continued)

- C. However, it is noted that the accident environment is relatively "non-harsh" and that any combination of components which could be found in Limitorque motorized valve actuators should be able to withstand these conditions. Due to this fact, the only deficiency that exists is that of qualified life.

CLARIFICATION

Documented evidence establishing similarity between the installed equipment and the test specimen is provided by the manufacturer and can be found in Georgia Power Company's Qualification Documentation Files.

Additionally, FRC states that a qualified life has not been established in an acceptable manner. The DOR Guidelines do not require a qualified life to be established for all equipment.

Georgia Power Company has performed further evaluation of age sensitive components and, using available test data and published data, established a qualified life in accordance with the requirements of the DOR Guidelines. Therefore, this equipment is considered qualified and Justification for Continued Operation is not required.

TER EQUIPMENT ITEM NO. 31

Motorized Valve Actuator Located in the Northeast and Southeast Corner Rooms

Plant ID: 2E11-MOV F068A,B

Limitorque Model SMB, AC Service, Class B Insulation

Service: RHR Service Water Flow Control

Plant ID: 2T49-MOV F006A,B

Limitorque Model SMB, AC Service, Class B Insulation

Service: Feedwater from RHR to Cooler Isolation Valve

NRC DISCREPANCY

Aging Degradation Evaluated Adequately

Qualified Life or Replacement Scheduled Established

- A. The licensee has not provided documented evidence from the manufacturer that the installed equipment and the test specimen(s) in the referenced report(s) are similar. The licensee has identified only two motorized valve actuators that incorporate a motor-brake assembly, yet has reference several reports which tested motorized valve actuators equipped with such devices. The licensee should obtain the information necessary to establish similarity, or submit the same if it is already in their central file (also referencing this information on the System Component Evaluation Worksheets (SCEWS)).
- B. The licensee has cited B0058 for many equipment items in an effort to establish similarity between the installed and tested equipment. It should be noted that Limitorque's generic qualification program is acceptable, but that this report does not in itself establish similarity, nor does it establish a qualified life estimate for this equipment. In order to establish a qualified life estimate for this equipment, the licensee must completely identify the installed components (i.e. motor lead insulation, type of torque switch) and then calculate a qualified life based on available information. This available information can come from either testing performed prior to environmental testing or from published data. None of the referenced reports have calculated a qualified life estimate based on an acceptable technique. It should also be noted that the thermal aging that has been performed has been done on individual components or simulates only a fraction of the qualified life claimed. No basis has been stated on the report(s) for the times or temperatures chosen for the thermal aging performed. Particular attention should be given to the motor-brake assembly (if any) and the motor lead insulation where Teflon has been used in some cases.

TER EQUIPMENT ITEM NO. 31 (Continued)

- C. However, it is noted that the accident environment is relatively "non-harsh" and that any combination of components which could be found in Limitorque motorized valve actuators should be able to withstand these conditions. Due to this fact, the only deficiency that exists is that of qualified life.

CLARIFICATION

Documented evidence establishing similarity between the installed equipment and the test specimen is provided by the manufacturer and can be found in Georgia Power Company's Qualification Documentation Files.

Additionally, FRC states that a qualified life has not been established in an acceptable manner. The DOR Guidelines do not require a qualified life to be established for all equipment.

Georgia Power Company has performed further evaluation of age sensitive components and, using available test data and published data, established a qualified life in accordance with the requirements of the DOR Guidelines. Therefore, this equipment is considered qualified and Justification for Continued Operation is not required.

TER EQUIPMENT ITEM NO. 36

Motorized Valve Actuator Located in the Reactor Building, Elev. 130'0"

Plant ID: 2P64-MOV F047

Limitorque Model SMB, AC Service, Class B Insulation

Service: Primary Containment Isolation

Plant ID: 2P64-MOV F045

Limitorque Model SMB, AC Service, Class B Insulation

Service: Primary Containment Isolation

NRC DISCREPANCY

Aging Degradation Evaluated Adequately

Qualified Life or Replacement Scheduled Established

- A. The licensee has not provided documented evidence from the manufacturer that the installed equipment and the test specimen(s) in the referenced report(s) are similar. The licensee has identified only two motorized valve actuators that incorporate a motor-brake assembly, yet has reference several reports which tested motorized valve actuators equipped with such devices. The licensee should obtain the information necessary to establish similarity, or submit the same if it is already in their central file (also referencing this information on the System Component Evaluation Worksheets (SCEWs)).
- B. The licensee has cited B0058 for many equipment items in an effort to establish similarity between the installed and tested equipment. It should be noted that Limitorque's generic qualification program is acceptable, but that this report does not in itself establish similarity, nor does it establish a qualified life estimate for this equipment. In order to establish a qualified life estimate for this equipment, the licensee must completely identify the installed components (i.e. motor lead insulation, type of torque switch) and then calculate a qualified life based on available information. This available information can come from either testing performed prior to environmental testing or from published data. None of the referenced reports have calculated a qualified life estimate based on an acceptable technique. It should also be noted that the thermal aging that has been performed has been done on individual components or simulates only a fraction of the qualified life claimed. No basis has been stated on the report(s) for the times or temperatures chosen for the thermal aging performed. Particular attention should be given to the motor-brake assembly (if any) and the motor lead insulation where Teflon has been used in some cases.

TER EQUIPMENT ITEM NO. 36 (Continued)

- C. However, it is noted that the accident environment is relatively "non-harsh" and that any combination of components which could be found in Limitorque motorized valve actuators should be able to withstand these conditions. Due to this fact, the only deficiency that exists is that of qualified life.

CLARIFICATION

Documented evidence establishing similarity between the installed equipment and the test specimen is provided by the manufacturer and can be found in Georgia Power Company's Qualification Documentation Files.

Additionally, FRC states that a qualified life has not been established in an acceptable manner. The DOR Guidelines do not require a qualified life to be established for all equipment.

Georgia Power Company has performed further evaluation of age sensitive components and, using available test data and published data, established a qualified life in accordance with the requirements of the DOR Guidelines. Therefore, this equipment is considered qualified and Justification for Continued Operation is not required.

TER EQUIPMENT ITEM NO. 37

Motorized Valve Actuator Located in the Torus Room

Plant ID: 2E51-MOV F104

Limitorque Model SMB, AC Service, Class RH Insulation

Service: Exhaust to Torus Penetration

NRC DISCREPANCY

Aging Degradation Evaluated Adequately

Qualified Life or Replacement Scheduled Established

- A. The licensee has not provided documented evidence from the manufacturer that the installed equipment and the test specimen(s) in the referenced report(s) are similar. The licensee has identified only two motorized valve actuators that incorporate a motor-brake assembly, yet has reference several reports which tested motorized valve actuators equipped with such devices. The licensee should obtain the information necessary to establish similarity, or submit the same if it is already in their central file (also referencing this information on the System Component Evaluation Worksheets (SCEWs)).
- B. The licensee has cited B0058 for many equipment items in an effort to establish similarity between the installed and tested equipment. It should be noted that Limitorque's generic qualification program is acceptable, but that this report does not in itself establish similarity, nor does it establish a qualified life estimate for this equipment. In order to establish a qualified life estimate for this equipment, the licensee must completely identify the installed components (i.e. motor lead insulation, type of torque switch) and then calculate a qualified life based on available information. This available information can come from either testing performed prior to environmental testing or from published data. None of the referenced reports have calculated a qualified life estimate based on an acceptable technique. It should also be noted that the thermal aging that has been performed has been done on individual components or simulates only a fraction of the qualified life claimed. No basis has been stated on the report(s) for the times or temperatures chosen for the thermal aging performed. Particular attention should be given to the motor-brake assembly (if any) and the motor lead insulation where Teflon has been used in some cases.

CLARIFICATION

Documented evidence establishing similarity between the installed equipment and the test specimen is provided by the manufacturer and can be found in Georgia Power Company's Qualification Documentation Files.

TER EQUIPMENT ITEM NO. 37 (Continued)

Additionally, FRC states that a qualified life has not been established in an acceptable manner. The DOR Guidelines do not require a qualified life to be established for all equipment.

Georgia Power Company has performed further evaluation of age sensitive components and, using available test data and published data, established a qualified life in accordance with the requirements of the DOR Guidelines. Therefore, this equipment is considered qualified and Justification for Continued Operation is not required.

TER EQUIPMENT ITEM NO. 53

Solenoid Valve Located in the Torus Room

Plant ID: 2G11-AOV F020

ASCO Model NP831654E

Service: Drywell Equipment Drain Isolation Valve

Plant ID: 2G11-AOV F019

ASCO Model NP831654E

Service: Drywell Equipment Drain Isolation Valve

Plant ID: 2G11-AOV F004

ASCO Model NP831654E

Service: Drywell Floor Drain Pump Isolation Valve

Plant ID: 2G11-AOV F003

ASCO Model NP831654E

Service: Drywell Equipment Drain Isolation Valve

NRC DISCREPANCY

Qualified Life or Replacement Schedule Established

The licensee should establish a qualified life estimate based on actual operating temperatures (i.e. ambient plus heat rise) if normally energized and the available test data.

CLARIFICATION

The manufacturer recommends replacement of non-metallic parts every four (4) years based on the results of the Qualification Tests. Georgia Power Company has established a qualified life of greater than four (4) years based on activation energies of the non-metallic materials obtained from ASCO, the aging test time and temperature, plant specific normal temperatures, and the Arrhenius equation. However, Georgia Power Company is following the manufacturers recommendations.

In accordance with the NRC recommendation, the replacement solenoid valves have been sealed at the conduit entrance with qualified materials which prevent moisture from entering the solenoid valve.

TER EQUIPMENT ITEM NO. 54

Solenoid Valve Located in the Pipe Chase

Plant ID: 2B21-AOV F077A,B
ASCO Model NP8323A37E
Service: Feedwater Check Valve

Plant ID: 2B21-AOV F076A,B
ASCO Model NP8323A37E
Service: Feedwater Check Valve

NRC DISCREPANCY

Qualified Life or Replacement Schedule Established

The licensee should establish a qualified life estimate based on actual operating temperatures (i.e. ambient plus heat rise) if normally energized and the available test data.

CLARIFICATION

The manufacturer recommends replacement of non-metallic parts every four (4) years based on the results of the Qualification Tests. Georgia Power Company has established a qualified life of greater than four (4) years based on activation energies of the non-metallic materials obtained from ASCO, the aging test time and temperature, plant specific normal temperatures, and the Arrhenius equation. However, Georgia Power Company is following the manufacturers recommendations.

In accordance with the NRC recommendation, the replacement solenoid valves have been sealed at the conduit entrance with qualified materials which prevent moisture from entering the solenoid valve.

TER EQUIPMENT ITEM NO. 64

Solenoid Valve Located Inside Containment

Plant ID: 2B21-AOV F031A,C,E

Target Rock Model 1/2 SMS-A-01-1

Service: Automatic Depressurization System

NRC DISCREPANCY

Qualified Life or Replacement Schedule Established
Criteria Regarding Aging Simulation Satisfied.

1. The Licensee references the aging analysis performed by Target Rock as Appendix I of TRC 2063B as evidence of qualification for a 5 year replacement interval for this equipment. It is noted, however, that the test report summary did not present any evidence that the thermal aging time and temperature exposure was performed during the test program.
2. The radiation criteria has not been met. A conservative qualified life estimate dictated by the Licensee's plant specific application aging analysis (provided the thermal aging of Appendix I mentioned above was performed) should alleviate this problem by reducing the radiation absorbed during normal life.

CLARIFICATION

The Target Rock Test Report provides a list of the non-metallic materials in the solenoid valve, of which there are two (2): Polyimide and Silicon Rubber.

The solenoid valves were aged for 480 hours @ 285° F which was based on the 10° C rule. (The calculation is shown in Appendix I of the Test Report.) Georgia Power Company has performed calculations using the above test data, plant specific temperatures, and the Arrhenius Equation to demonstrate a qualified life of 10 years for the silicon rubber O-rings and gasket and 40 years for the polyimide.

The solenoid valves were exposed to 3.26×10^7 rads during testing. However, the plant specific total integrated dose is 4.4×10^7 rads (1.8×10^7 rads for 40 years of normal operation and 2.6×10^7 rads for accident dose).

The radiation threshold of silicon rubber is less than 4.4×10^7 rads, therefore, the silicon rubber shall not be exposed to more than 3.26×10^7 rads. Georgia Power Company has performed a calculation which demonstrates that replacing the O-rings every ten (10) years will keep the total integrated dose less than 3.26×10^7 rads.

Based on the above, Georgia Power Company has established a qualified life based on methods acceptable to the NRC.

TER EQUIPMENT ITEM NC. 70

Limit Switches located in the Northeast Corner Room

Plant ID: 2G51-F013

NAMCO Model EA740-20000/EA740-20100

Service: Torus Water Clean-up Isolation

NRC DISCREPANCY

Aging Degradation Evaluated Adequately

Qualified Life or Replacement Schedule Established

The report states "Heat aging. The heat aging test consisted of holding the unit suspended over water in a tank at a temperature of 200°F for 200 hours. +

+ Heat aging conditions were taken from ANSI Draft Standard N278.2.1 (Draft 3, Rev. 0). The correlation between these conditions and the qualified life is not known.

The licensee has referred to an "estimation of qualified life of EA740 Series Nuclear Switch" dated 2/27/1980. This NAMCO Report provides an estimated qualified life of 4.0 years at 104°F, assuming an activation energy of 0.958 eV for the NBR gasket material. The SCEW sheet states that the specified ambient temp. is 135°F. No estimation of qualified life at the specified service temperature is provided.

CLARIFICATION

The normal operating temperature for the limit switch on valve 2G51-AOV F013 is 104°F. Therefore, the estimation of qualified life provided by NAMCO is applicable to Plant Hatch for these limit switches.

NAMCO is in the process of increasing the qualified life of these switches by using a different gasket material. When testing is complete, Georgia Power Company will review the report and if acceptable, will modify these limit switches.

In accordance with the NRC recommendation, the replacement limit switches have been sealed at the conduit entrance with qualified materials which prevent moisture from entering the limit switch.

Georgia Power Company considers these limit switches qualified. Therefore, justification for Continued Operation is not required.

TER EQUIPMENT ITEM NO. 73

Limit Switches located in the Pipe Chase

Plant ID: 2B21-F028A,B,C,D
NAMCO Model EA740-80001/EA740-80100
Service: Main Steam Line Isolation

NRC DISCREPANCY

Aging Degradation Evaluated Adequately
Qualified Life or Replacement Schedule Established

The report states "Heat aging. The heat aging test consisted of holding the unit suspended over water in a tank at a temperature of 200°F for 200 hours. +

+ Heat aging conditions were taken from ANSI Draft Standard N278.2.1 (Draft 3, Rev. 0). The correlation between these conditions and the qualified life is not known.

The licensee has referred to an "estimation of qualified life of EA740 Series Nuclear Switch" dated 2/27/1980. This NAMCO Report provides an estimated qualified life of 4.0 years at 104°F, assuming an activation energy of 0.958 eV for the NBR gasket material. The SCEW sheet states that the specified ambient temp. is 135°F. No estimation of qualified life at the specified service temperature is provided.

CLARIFICATION

Georgia Power Company has replaced these limit switches with upgraded limit switches of the same model but which are qualified per NAMCO Report QTR-111. The qualification report provides a temperature versus time curve based on the test time and temperature and the Arrhenius equation. Georgia Power has established a qualified life for these switches using this curve.

In accordance with the NRC recommendation, the replacement limit switches have been sealed at the conduit entrance with qualified materials which prevent moisture from entering the limit switch.

TER EQUIPMENT ITEM NO. 74

Limit Switches located in the Containment

Plant ID: 2B21-AOV F022A,B,C,D
NAMCO Model FA740-80100/EA740-80001
Service: Main Steam Line Isolation

NRC DISCREPANCY

Aging Degradation Evaluated Adequately
Qualified Life or Replacement Schedule Established

The report states "Heat aging. The heat aging test consisted of holding the unit suspended over water in a tank at a temperature of 200°F for 200 hours. +

+ Heat aging conditions were taken from ANSI Draft Standard N278.2.1 (Draft 3, Rev. 0). The correlation between these conditions and the qualified life is not known.

The licensee has referred to an "estimation of qualified life of EA740 Series Nuclear Switch" dated 2/27/1980. This NAMCO Report provides an estimated qualified life of 4.0 years at 104°F, assuming an activation energy of 0.958 eV for the NBR gasket material. The SCEW sheet states that the specified ambient temp. is 135°F. No estimation of qualified life at the specified service temperature is provided.

CLARIFICATION

Georgia Power Company has replaced these limit switches with upgraded limit switches of the same model but which are qualified per NAMCO Report QTR-111. The qualification report provides a temperature versus time curve based on the test time and temperature and the Arrhenius equation. Georgia Power has established a qualified life for these switches using this curve.

In accordance with the NRC recommendation, the replacement limit switches have been sealed at the conduit entrance with qualified materials which prevent moisture from entering the limit switch.

TER EQUIPMENT ITEM NO. 76

Limit Switches located in the Torus Room

Plant ID: 2G51-AOV F011

NAMCO Model EA740-20000

Service: Torus Water Clean-up Isolation Valve

Plant ID: 2G51-AOV F012

NAMCO Model EA740-20000

Service: Torus Water Clean-up Isolation Valve

NRC DISCREPANCY

Aging Degradation Evaluated Adequately

Qualified Life or Replacement Schedule Established

The report states "Heat aging. The heat aging test consisted of holding the unit suspended over water in a tank at a temperature of 200°F for 200 hours. +

+ Heat aging conditions were taken from ANSI Draft Standard N278.2.1 (Draft 3, Rev. 0). The correlation between these conditions and the qualified life is not known.

The licensee has referred to an "estimation of qualified life of EA740 Series Nuclear Switch" dated 2/27/1980. This NAMCO Report provides an estimated qualified life of 4.0 years at 104°F, assuming an activation energy of 0.958 eV for the NBR gasket material. The SCEW sheet states that the specified ambient temp. is 135°F. No estimation of qualified life at the specified service temperature is provided.

CLARIFICATION

The normal operating temperature for the limit switch on valves 2G51-AOV F011 and F012 is 104°F. Therefore, the estimation of qualified life provided by NAMCO is applicable to Plant Hatch for these limit switches.

NAMCO is in the process of increasing the qualified life of these switches by using a different gasket material. When testing is complete, Georgia Power Company will review the report and if acceptable, will modify these limit switches.

In accordance with the NRC recommendation, the replacement limit switches have been sealed at the conduit entrance with qualified materials which prevent moisture from entering the limit switch.

Georgia Power Company considers these limit switches qualified. Therefore, justification for Continued Operation is not required.

TER EQUIPMENT ITEM NO. 80

Limit Switches located in the Torus Room

Plant ID: 2G11-F003
NAMCO Model EA18034302
Service: Drywell Floor Drain Pump Isolation Valve

Plant ID: 2G11-F004
NAMCO Model EA18034302
Service: Drywell Floor Drain Pump Isolation Valve

Plant ID: 2G11-F019
NAMCO Model EA18034302
Service: Drywell Equipment Drain Pump Isolation Valve

Plant ID: 2G11-F020
NAMCO Model EA18034302
Service: Drywell Equipment Drain Pump Isolation Valve

Plant ID: 2T48-F212
NAMCO Model EA18034302
Service: Drywell-Torus DP System

Plant ID: 2T48-F209
NAMCO Model EA18034302
Service: Drywell-Torus DP System

Plant ID: 2T48-AOV F210
NAMCO Model EA18034302
Service: Drywell-Torus DP System

Plant ID: 2T48-AOV F211
NAMCO Model EA18034302
Service: Drywell-Torus DP System

NRC DISCREPANCY

Aging Degradation Evaluated Adequately
Qualified Life or Replacement Schedule Established

The report states "Heat aging. The heat aging test consisted of holding the unit suspended over water in a tank at a temperature of 200°F for 200 hours. +

+ Heat aging conditions were taken from ANSI Draft Standard N278.2.1 (Draft 3, Rev. 0). The correlation between these conditions and the qualified life is not known.

TER EQUIPMENT ITEM NO. 80 (Continued)

The licensee has referred to an "estimation of qualified life of EA740 Series Nuclear Switch" dated 2/27/1980. This NAMCO Report provides an estimated qualified life of 4.0 years at 104°F, assuming an activation energy of 0.958 eV for the NBR gasket material. The SCEW sheet states that the specified ambient temp. is 135°F. No estimation of qualified life at the specified service temperature is provided.

CLARIFICATION

Georgia Power Company has replaced these limit switches with upgraded limit switches of the same model but which are qualified per NAMCO Report QTR-105. The qualification report provides a temperature versus time curve based on the test time and temperature and the Arrhenius equation. Georgia Power has established a qualified life for these switches using this curve.

In accordance with the NRC recommendation, the replacement limit switches have been sealed at the conduit entrance with qualified materials which prevent moisture from entering the limit switch.

TER EQUIPMENT ITEM NO. 188

Motorized Valve Actuator Located in the Pipe Penetration Room

Plant ID: 2E11-MOV F015A,B

Limatorque Model SMB, AC Service, Class RH Insulation

Service: LPCI Discharge Valve

NRC DISCREPANCY

Aging Degradation Evaluated Adequately

Qualified Life or Replacement Scheduled Established

- A. The licensee has not provided documented evidence from the manufacturer that the installed equipment and the test specimen(s) in the referenced report(s) are similar. The licensee has identified only two motorized valve actuators that incorporate a motor-brake assembly, yet has reference several reports which tested motorized valve actuators equipped with such devices. The licensee should obtain the information necessary to establish similarity, or submit the same if it is already in their central file (also referencing this information on the System Component Evaluation Worksheets (SCEWs)).
- B. The licensee has cited B0058 for many equipment items in an effort to establish similarity between the installed and tested equipment. It should be noted that Limatorque's generic qualification program is acceptable, but that this report does not in itself establish similarity, nor does it establish a qualified life estimate for this equipment. In order to establish a qualified life estimate for this equipment, the licensee must completely identify the installed components (i.e. motor lead insulation, type of torque switch) and then calculate a qualified life based on available information. This available information can come from either testing performed prior to environmental testing or from published data. None of the referenced reports have calculated a qualified life estimate based on an acceptable technique. It should also be noted that the thermal aging that has been performed has been done on individual components or simulates only a fraction of the qualified life claimed. No basis has been stated on the report(s) for the times or temperatures chosen for the thermal aging performed. Particular attention should be given to the motor-brake assembly (if any) and the motor lead insulation where Teflon has been used in some cases.

CLARIFICATION

Documented evidence establishing similarity between the installed equipment and the test specimen is provided by the manufacturer and can be found in Georgia Power Company's Qualification Documentation Files.

TER EQUIPMENT ITEM NO. 188 (Continued)

Additionally, FRC states that a qualified life has not been established in an acceptable manner. The DOR Guidelines do not require a qualified life to be established for all equipment.

Georgia Power Company has performed further evaluation of age sensitive components and, using available test data and published data, established a qualified life in accordance with the requirements of the DOR Guidelines. Therefore, this equipment is considered qualified and Justification for Continued Operation is not required.

SECTION D

OPEN ITEM EQUIPMENT LIST

INTRODUCTION

This section provides, per the requirements of 10CFR50.49, Paragraph (g), a list of electrical equipment important to safety, which has not yet been environmentally qualified by Georgia Power Company.

The equipment is identified by the TER Equipment Item Number (if applicable) and associated Plant Identification Number, followed by the Equipment Location, Equipment Description, and the Equipment Service.

The Corrective Action for resolving the Open Item and a schedule for completing that action is provided for the equipment.

The schedules provided for resolving the open items meet the requirements of 10CFR50.49, Paragraph (g).

TABLE D-1

OPEN ITEM EQUIPMENT LIST

TER EQUIPMENT ITEM NO. 5

Plant ID: 2E11-MOV F016B

Motorized Valve Actuator Located in the RWCU HX Room
Limitorque Model SMB, AC Service, Class B Insulation
Service: Containment Spray Discharge Isolation Valve

CORRECTIVE ACTION: The actuator and motor for this motor operated valve will be replaced with a qualified actuator and motor prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 6

Plant ID: 2E51-MOV F031

Motorized Valve Actuator Located in the RCIC (Northwest) Corner Room
Limitorque Model SMB, DC Service, Class B Insulation
Service: RCIC Pump Suction Valve from Suppression Pool

CORRECTIVE ACTION: The motor for this motor operated valve will be replaced with a qualified motor prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 7

Plant ID: 2E11-MOV F075B

Motorized Valve Actuator Located in the Torus Room
Limitorque Model SMB, AC Service, Class F Insulation
Service: RHR Service Water Pump Discharge Valve

CORRECTIVE ACTION: The motor for this motor operated valve will be replaced with a qualified motor prior to or during the Unit 2, 1983 Refueling Outage.

TER EQUIPMENT ITEM NO. 8

Plant ID: 2E11-MOV F027A

Motorized Valve Actuator Located in the Torus Room
Limitorque Model SMB, AC Service
Service: Suppression Pool Spray Valve

CORRECTIVE ACTION: The motor for this motor operated valve will be replaced with a qualified motor prior to or during the Unit 2, 1983 Refueling Outage.

TER EQUIPMENT ITEM NO. 10

Plant ID: 2E51-MOV F013

Motorized Valve Actuator Located in the Torus Room
Limitorque Model SMB, DC Service, Class B Insulation
Service: RCIC Pump Inboard Discharge Valve

CORRECTIVE ACTION: The motor for this motor operated valve will be replaced with a qualified motor prior to or during the Unit 2, 1983 Refueling Outage.

TER EQUIPMENT ITEM NO. 11

Plant ID: 2E21-MOV F004B

Motorized Valve Actuator Located in the RWCU HX Room

Limatorque Model SMB, AC Service, Class H Insulation

Service: Core Spray Outboard Valve

CORRECTIVE ACTION: The actuator and motor for this motor operated valve will be replaced with a qualified actuator and motor prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 11

Plant ID: 2E21-MOV F004A

Motorized Valve Actuator Located in the Reactor Building, Elev. 158'0"

Limatorque Model SMB, AC Service, Class H Insulation

Service: Core Spray Outboard Valve

CORRECTIVE ACTION: The actuator and motor for this motor operated valve will be replaced with a qualified actuator and motor prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 16

Plant ID: 2E21-MOV F005B

Motorized Valve Actuator Located in the RWCU HX Room

Limatorque Model SMB, AC Service, Class RH Insulation

Service: Core Spray Inboard Valve

CORRECTIVE ACTION: The actuator and motor for this motor operated valve will be replaced with a qualified actuator and motor prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 16

Plant ID: 2E21-MOV F005A

Motorized Valve Actuator Located in the Reactor Building, Elev. 158'0"

Limatorque Model SMB, AC Service, Class RH Insulation

Service: Core Spray Inboard Valve

CORRECTIVE ACTION: The actuator and motor for this motor operated valve will be replaced with a qualified actuator and motor prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 20

Plant ID: 2E11-MOV F008

Motorized Valve Actuator Located in the Torus and Pipe Penetration Rooms

Limatorque Model SMB, DC Service, Class B Insulation

Service: Shutdown Cooling Suction Isolation

CORRECTIVE ACTION: The actuator and motor for this motor operated valve will be replaced with a qualified actuator and motor prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 20

Plant ID: 2E41-MOV F006

Motorized Valve Actuator Located in the Torus and Pipe Penetration Rooms

Limitorque Model SMB, DC Service, Class B Insulation

Service: HPCI Pump Inboard Discharge Valve

CORRECTIVE ACTION: The actuator and motor for this motor operated valve will be replaced with a qualified actuator and motor prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 21

Plant ID: 2E11-MOV F003A

Motorized Valve Actuator Located in the Northeast & Southeast Corner Rooms

Limitorque Model SMB, AC Service, Class F Insulation

Service: HX Discharge

CORRECTIVE ACTION: The motor for this motor operated valve will be replaced with a qualified motor prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 21

Plant ID: 2E11-MOV F021B

Motorized Valve Actuator Located in the RWCU Hx Room

Limitorque Model SMB, AC Service, Class F Insulation

Service: Containment Spray Discharge Valve

CORRECTIVE ACTION: The actuator and motor for this motor operated valve will be replaced with a qualified actuator and motor prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 22

Plant ID: 2E41-MOV F008

Motorized Valve Actuator Located in the HPCI Room

Limitorque Model SMB, DC Service, Class B Insulation

Service: Test Bypass Valve to Condensate Storage

CORRECTIVE ACTION: The actuator and motor for this motor operated valve will be replaced with a qualified actuator and motor prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 22

Plant ID: 2E41-MOV F004

Motorized Valve Actuator Located in the HPCI Room

Limitorque Model SMB, DC Service, Class B Insulation

Service: Pump Suction from Condensate Storage Tank

CORRECTIVE ACTION: The motor for this motor operated valve will be replaced with a qualified motor prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 22

Plant ID: 2E41-MOV F042

Motorized Valve Actuator Located in the HPCI Room

Limatorque Model SMB, DC Service, Class B Insulation

Service: Pump Suction from Suppression Pool

CORRECTIVE ACTION: The motor for this motor operated valve will be replaced with a qualified motor prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 25

Plant ID: 2E11-MOV F016A

Motorized Valve Actuator Located in the Pipe Penetration Room

Limatorque Model SMB, AC Service, Class B Insulation

Service: Containment Spray Discharge Valve

CORRECTIVE ACTION: The actuator and motor for this motor operated valve will be replaced with a qualified actuator and motor prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 25

Plant ID: 2E11-MOV F021A

Motorized Valve Actuator Located in the Pipe Penetration Room

Limatorque Model SMB, AC Service, Class B Insulation

Service: Containment Spray Discharge Valve

CORRECTIVE ACTION: The actuator and motor for this motor operated valve will be replaced with a qualified actuator and motor prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 30

Plant ID: 2B31-MOV F031A,B

Motorized Valve Actuator Located in the Containment

Limatorque Model SMB, AC Service, Class H Insulation

Service: Recirculation Pump Discharge Isolation

CORRECTIVE ACTION: The actuator and motor for this motor operated valve will be replaced with a qualified actuator and motor prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 32

Plant ID: 2E41-MOV F012

Motorized Valve Actuator Located in the HPCI Room

Limatorque Model SMB, DC Service

Service: Minimum Flow Bypass

CORRECTIVE ACTION: The actuator and motor for this motor operated valve will be replaced with a qualified actuator and motor prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 32

Plant ID: 2E41-MOV F011

Motorized Valve Actuator Located in the HPCI Room

Limitorque Model SMB, DC Service

Service: Test Bypass Valve to Condensate Storage

CORRECTIVE ACTION: The actuator and motor for this motor operated valve will be replaced with a qualified actuator and motor prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 91

Plant ID: 2T48-DPS N210

D/P Switch Located in the Reactor Building, Elev. 130'0"

Static-O-Ring Model 22R3K614CIAPP

Service: Torus to ATM Hi DP

CORRECTIVE ACTION: The switch will be replaced with a qualified Rosemount Type 1153 transmitter and a Foxboro trip card (located in the Main Control room) during the Unit 2, 1984 Refueling Outage.

TFR EQUIPMENT ITEM NO. 91

Plant ID: 2T48-DPS N211

D/P Switch Located in the Reactor Building, Elev. 130'0"

Static-O-Ring Model 22R3K614CITX3

Service: Torus to ATM Hi DP

CORRECTIVE ACTION: The switch will be replaced with a qualified Rosemount Type 1153 transmitter and a Foxboro trip card (located in the Main Control room) during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 92

Plant ID: 2E41-DPIS N005

D/P Switch Located in the Reactor Building, Elev. 130'0"

Barton Model 288

Service: HPCI Steam Line Hi Differential Press

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 92

Plant ID: 2E41-DPIS N004

D/P Switch Located in the Reactor Building, Elev. 130'0"

Barton Model 288

Service: HPCI Steam Line Hi Differential Press

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 93

Plant ID: 2E41-FS N006

Flow Switch Located in the HPCI Room

Barton Model 289

Service: HPCI Pump Discharge Hi/Low Flow

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 94

Plant ID: 2E21-FIS N006A,B

Flow Switch Located in the Northeast & Southeast Corner Rooms

Barton Model 289

Service: Pumps Outlet Flow

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 95

Plant ID: 2E41-LS N015A,B

Level Switch Located in the Torus Room

Magnetrol Model 35751MPG

Service: Suppression Pool Hi Level Signal to Open Valve

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 96

Plant ID: 2B21-LIS N042A,B

Level Indicating Switch Located in the Reactor Building, Elev. 158'0"

Yarway Model 4418C

Service: Auto. Blowdown Permissive

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 96

Plant ID: 2B21-LIS N031A,B,C,D

Level Indicating Switch Located in the Reactor Building, Elev. 158'0"

Yarway Model 4418C

Service: Init. RCIC HPCI & RHR Sys.

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 97

Plant ID: 2B21-LITS N037

Level Indicating Switch Located in the Reactor Building, Elev. 130'0"

Yarway Model 4418CE

Service: Shroud Level-RHR Interlock

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 98

Plant ID: 2B21-LITS N036

Level Indicating Switch Located in the Reactor Building, Elev. 130'0"

Yarway Model 4418CE

Service: Shroud Level-RHR Interlock

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 99

Plant ID: 2B21-LIS N017A,B,C,D

Level Indicating Switch Located in the Reactor Building, Elev. 158'0"

Barton Model 288A

Service: Trip RCIC & HPCI Turbine

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 101

Plant ID: 2E11-PS N010A,B,C,D

Pressure Switch Located in the Reactor Building, Elev. 158'0"

Barksdale Model D2HM18SS

Service: Auto Initiating H1 Drywell Press.

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 101

Plant ID: 2E11-PS N011A,B,C,D

Pressure Switch Located in the Reactor Building, Elev. 158'0"

Barksdale Model D2HM18SS

Service: Auto Initiating Hi Drywell. Press.

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 102

Plant ID: 2C71-PS N002A,B,C,D

Pressure Switch Located in the Reactor Building, Elev. 158'0"

Barksdale Model D2HM18SS

Service: Primary Containment Hi Pressure Switch

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 103

Plant ID: 2E51-PS N012A,B,C,D

Pressure Switch Located in the RCIC (Northwest) Corner Room

Barksdale Model D2HM80SS

Service: Turbine Exhaust Diaphragm

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 104

Plant ID: 2E21-PS N009A,B

Pressure Switch Located in the Northeast and Southeast Corner Rooms

Barksdale Model B2TM12SS

Service: Core Spray Pump Outlet Pressure

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 104

Plant ID: 2E21-PS N008A,B

Pressure Switch Located in the Northeast and Southeast Corner Rooms
Barksdale Model B2TM12SS

Service: Core Spray Pump Outlet Pressure

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 104

Plant ID: 2E11-PS N020A,B,C,D

Pressure Switch Located in the Northeast and Southeast Corner Rooms
Barksdale Model B2TM12SS

Service: RHR Pump Discharge Pressure

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 104

Plant ID: 2E11-PS N016A,B,C,D

Pressure Switch Located in the Northeast and Southeast Corner Rooms
Barksdale Model B2TM12SS

Service: RHR Pump Discharge Pressure

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 105

Plant ID: 2E41-PS N001A,B,C,D

Pressure Switch Located in the Reactor Building, Elev. 130'0"
Barksdale Model B2TM12SS

Service: HPCI Low Pressure Isolation Signal

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 105

Plant ID: 2E51-PS N019A,B,C,D

Pressure Switch Located in the Reactor Building, Elev. 130'0"

Barksdale Model B2TM12SS

Service: RCIC Steam Header Pressure Low

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 105

Plant ID: 2B21-PS N021D,F

Pressure Switch Located in the Reactor Building, Elev. 130'0"

Barksdale Model B2TM12SS

Service: Core Spray & RHR Valve OP Perm.

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 108

Plant ID: 2E41-PS N012A,B,C,D

Pressure Switch Located in the HPCI Room

Barksdale Model D2HM150SS

Service: HPCI Turbine Exhaust Hi Pressure

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 109

Plant ID: 2E41-PS N010

Pressure Switch Located in the HPCI Room

Static-O-Ring Model 6NAA21X9VSTT

Service: HPCI Pump Suction Pressure Low

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 110

Plant ID: 2B21-PS N021A,E

Pressure Switch Located in the Reactor Building, Elev. 158'0"

Barksdale Model B2TM12SS

Service: Core Spray and RHR Valve OP Perm.

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 112

Plant ID: 2E41-PS N017A,B

Pressure Switch Located in the HPCI Room

Barksdale Model B2TM12SS

Service: HPCI Turbine Exh. Hi Pressure Trip

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 112

Plant ID: 2E41-PS N027

Pressure Switch Located in the HPCI Room

Barksdale Model B2TM12SS

Service: HPCI Pump Discharge Pressure

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 113

Plant ID: 2B21-TS N010A,B,C,D

Temperature Switch Located in the Pipe Chase

Fenwall Model 1700240

Service: Main Steam Line Leak Detection

CORRECTIVE ACTION: The temperature switch will be replaced with a qualified Weed temperature element and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 113

Plant ID: 2B21-TS N011A,B,C,D

Temperature Switch Located in the Pipe Chase

Fenwall Model 1700240

Service: Main Steam Line Leak Detection

CORRECTIVE ACTION: The temperature switch will be replaced with a qualified Weed temperature element and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 113

Plant ID: 2B21-TS N012A,B,C,D
Temperature Switch Located in the Pipe Chase
Fenwall Model i700240
Service: Main Steam Line Leak Detection

CORRECTIVE ACTION: The temperature switch will be replaced with a qualified Weed temperature element and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 113

Plant ID: 2B21-TS N013A,B,C,D
Temperature Switch Located in the Pipe Chase
Fenwall Model 1700240
Service: Main Steam Line Leak Detection

CORRECTIVE ACTION: The temperature switch will be replaced with a qualified Weed temperature element and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 114

Plant ID: 2E41-TE N030A,B
Temperature Element Located in the HPCI Room
PYCO Model N145C3224P1 Type T Thermocouple
Service: HPCI Area Leak Detection

CORRECTIVE ACTION: The temperature element will be replaced with a qualified Weed temperature element as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 115

Plant ID: 2E41-TE N046A,B
Temperature Element Located in the Pipe Penetration Room
PYCO Model N145C3224P1 Type T Thermocouple
Service: HPCI Steam Leak Detection

CORRECTIVE ACTION: The temperature element will be replaced with a qualified Weed temperature element as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 116

Plant ID: 2E51-TE N023A,B
Temperature Element Located in the RCIC (NW) Corner Room
PYCO Model N145C3224P1 Type T Thermocouple
Service: RCIC Area Steam Leak Detection

CORRECTIVE ACTION: The temperature element will be replaced with a qualified Weed temperature element as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 116

Plant ID: 2E51-TE N022A,B

Temperature Element Located in the RCIC (NW) Corner Room

PYCO Model N145C3224P1 Type T Thermocouple

Service: RCIC Area Steam Leak Detection

CORRECTIVE ACTION: The temperature element will be replaced with a qualified Weed temperature element as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 116

Plant ID: 2E51-TE N021A,B

Temperature Element Located in the RCIC (NW) Corner Room

PYCO Model N145C3224P1 Type T Thermocouple

Service: RCIC Area Steam Leak Detection

CORRECTIVE ACTION: The temperature element will be replaced with a qualified Weed temperature element as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 117

Plant ID: 2E51-TE N026A,B,C,D

Temperature Element Located in the Torus Room

PYCO Model N145C3224P1 Type T Thermocouple

Service: RCIC Area Steam Leak Detection

CORRECTIVE ACTION: The temperature element will be replaced with a qualified Weed temperature element as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 117

Plant ID: 2E51-TE N027A,B,C,D

Temperature Element Located in the Torus Room

PYCO Model N145C3224P1 Type T Thermocouple

Service: RCIC Area Steam Leak Detection

CORRECTIVE ACTION: The temperature element will be replaced with a qualified Weed temperature element as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 117

Plant ID: 2E51-TE N025A,B,C,D

Temperature Element Located in the Torus Room

PYCO Model N145C3224P1 Type T Thermocouple

Service: RCIC Area Steam Leak Detection

CORRECTIVE ACTION: The temperature element will be replaced with a qualified Weed temperature element as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 118

Plant ID: 2G31-TE N016C,D,E,F
Temperature Element Located in the RWCU HX Room
PYCO Model N145C3224P1 Type T Thermocouple
Service: Clean-up System Leak Detection

CORRECTIVE ACTION: The temperature element will be replaced with a qualified Weed temperature element as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 118

Plant ID: 2G31-TE N022A,B
Temperature Element Located in the RWCU Pump Room
PYCO Model N145C3224P1 Type T Thermocouple
Service: Clean-up System Leak Detection

CORRECTIVE ACTION: The temperature element will be replaced with a qualified Weed temperature element as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 118

Plant ID: 2G31-TE N022C,D,E,F
Temperature Element Located in the RWCU HX Room
PYCO Model N145C3224P1 Type T Thermocouple
Service: Clean-up System Leak Detection

CORRECTIVE ACTION: The temperature element will be replaced with a qualified Weed temperature element as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 118

Plant ID: 2G31-TE N023A,B,C
Temperature Element Located in the Reactor Bulding, Elev. 158'0"
PYCO Model N145C3224P1 Type T Thermocouple
Service: Clean-up System Leak Detection

CORRECTIVE ACTION: The temperature element will be replaced with a qualified Weed temperature element as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 118

Plant ID: 2G31-TE N023D,E
Temperature Element Located in the RWCU HX Room
PYCO Model N145C3224P1 Type T Thermocouple
Service: Clean-up System Leak Detection

CORRECTIVE ACTION: The temperature element will be replaced with a qualified Weed temperature element as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 118

Plant ID: 2G31-TE N023F

Temperature Element Located in the Reactor Building, Elev. 185'0"

PYCO Model N145C3224P1 Type T Thermocouple

Service: Clean-up System Leak Detection

CORRECTIVE ACTION: The temperature element will be replaced with a qualified Weed temperature element as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 118

Plant ID: 2G31-TE N016A,B

Temperature Element Located in the RWCU Pump Room

PYCO Model N145C3224P1 Type T Thermocouple

Service: Clean-up System Leak Detection

CORRECTIVE ACTION: The temperature element will be replaced with a qualified Weed temperature element as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 119

Plant ID: 2T48-TE N009A

Temperature Element Located in the Torus Room

Rosemount Model 885190

Service: Torus Water Temperature

CORRECTIVE ACTION: The temperature element will be replaced by a qualified PYCO temperature element during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 120

Plant ID: 2T48-TE N009B,C

Temperature Element Located in the Torus Room

Rosemount Model 88136

Service: Torus Water Temperature

CORRECTIVE ACTION: The temperature element will be replaced by a qualified PYCO temperature element during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 120

Plant ID: 2T48-TE N075

Temperature Element Located in the Torus Room

Rosemount Model 88136

Service: Torus Water Temperature

CORRECTIVE ACTION: The temperature element will be replaced by a qualified PYCO temperature element during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 121

Plant ID: 2T47-TE N001L

Temperature Element Located in the Containment

Rosemount Model 885217

Service: Containment Air Temperature

CORRECTIVE ACTION: The temperature element will be replaced by a qualified PYCO temperature element during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 121

Plant ID: 2T47-TE N007

Temperature Element Located in the Containment

Rosemount Model 885217

Service: Containment Air Temperature

CORRECTIVE ACTION: The temperature element will be replaced by a qualified PYCO temperature element during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 122

Plant ID: 2G31-FT N036

Flow Transmitter Located in the Reactor Building, Elev. 158'0"

General Electric Model 555111BCAA4WAK

Service: HPCI Pump Discharge In. Flow

CORRECTIVE ACTION: The transmitter will be replaced with a qualified Barton transmitter as part of the Analog transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984, Refueling Outage.

TER EQUIPMENT ITEM NO. 122

Plant ID: 2G31-FT N012

Flow Transmitter Located in the Reactor Building, Elev. 158'0"

General Electric Model 555111BCAA4WAK

Service: Flow to Cond. & Waste Collection

CORRECTIVE ACTION: The transmitter will be replaced with a qualified Barton transmitter as part of the Analog transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984, Refueling Outage.

TER EQUIPMENT ITEM NO. 122

Plant ID: 2G31-FT N041

Flow Transmitter Located in the Reactor Building, Elev. 158'0"

General Electric Model 555111BCAA4WAK

Service: HPCI Pump Discharge Out Flow

CORRECTIVE ACTION: The transmitter will be replaced with a qualified Barton transmitter as part of the Analog transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984, Refueling Outage.

IMAGE EVALUATION
TEST TARGET (MT-3)

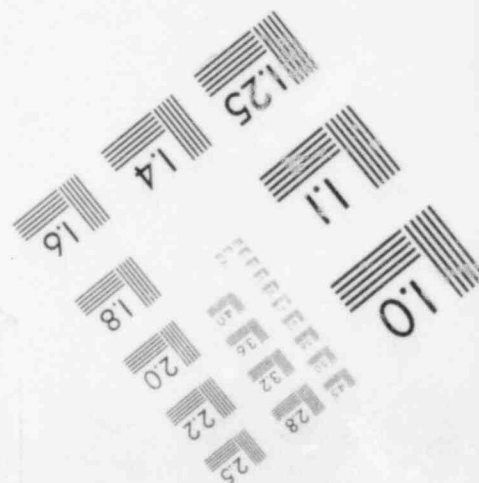
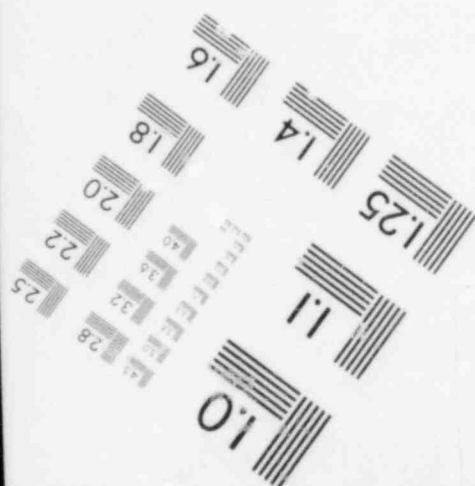
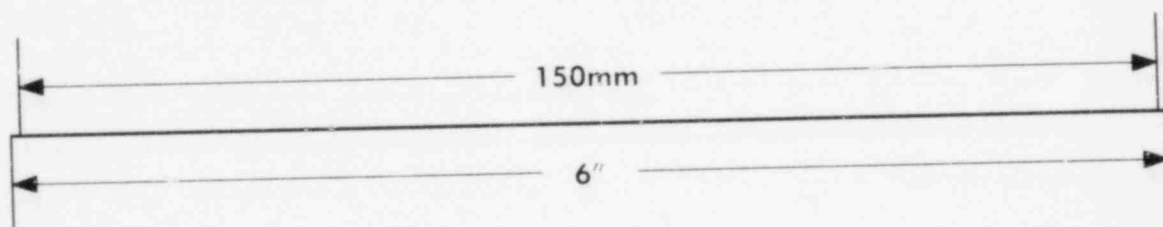
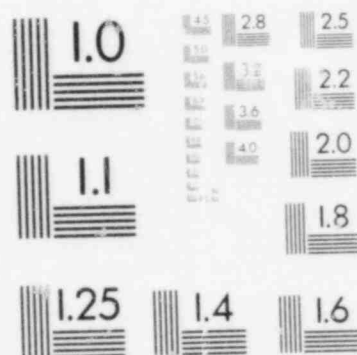
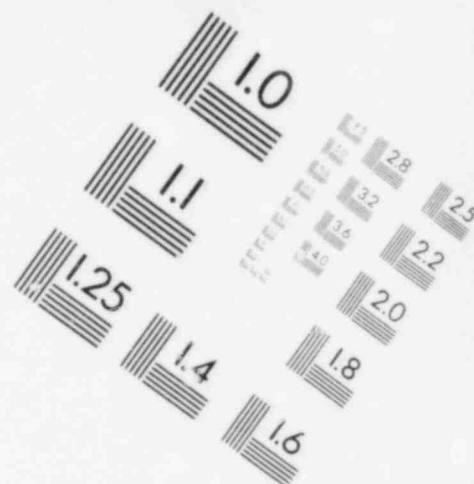
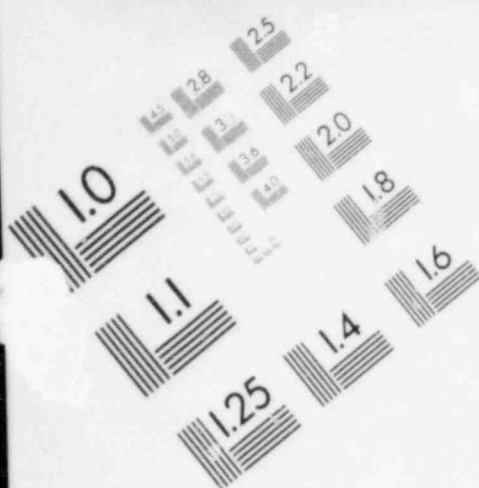
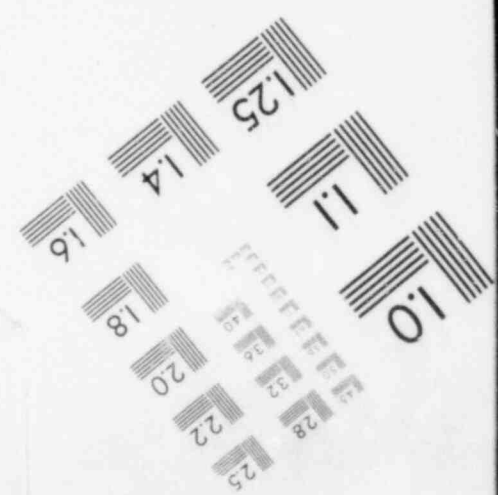
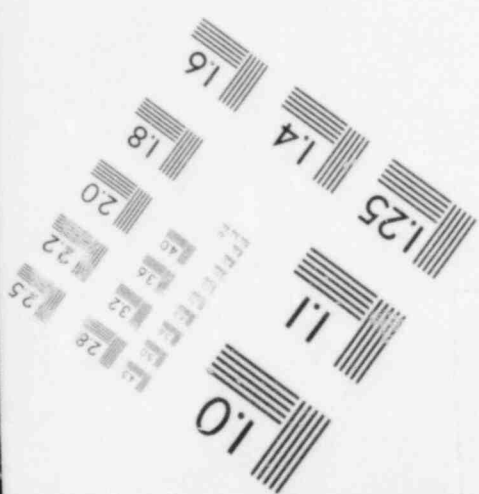
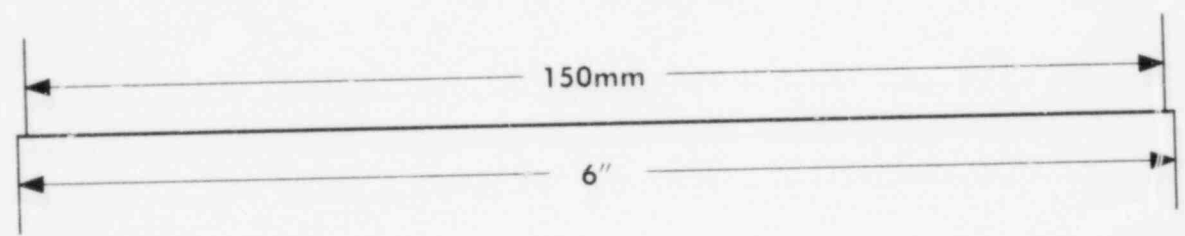
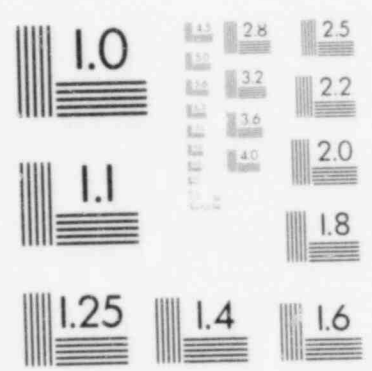
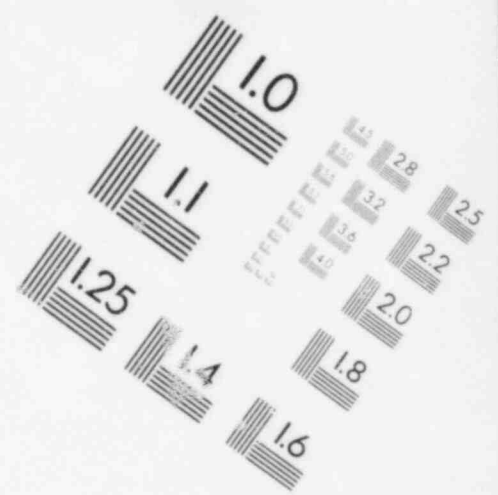
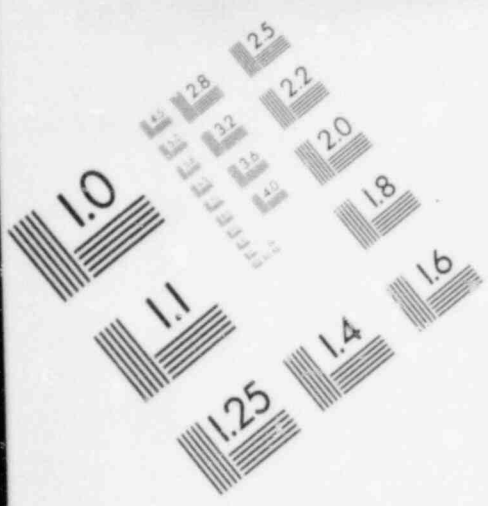


IMAGE EVALUATION
TEST TARGET (MT-3)



TER EQUIPMENT ITEM NO. 123

Plant ID: 2E11-FT N015A,B

Flow Transmitter Located in the Northeast & Southeast Corner Rooms

Barton Model 368

Service: RHR Flow

CORRECTIVE ACTION: The transmitter will be replaced with a qualified Barton transmitter as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984, Refueling Outage.

TER EQUIPMENT ITEM NO. 124

Plant ID: 2E21-FT N003A,B

Flow Transmitter Located in the Northeast & Southeast Corner Rooms

GE/MAC Model 555111BDAA4WAL

Service: Pumps Outlet Flow

CORRECTIVE ACTION: The transmitter will be replaced with a qualified Barton transmitter as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984, Refueling Outage.

TER EQUIPMENT ITEM NO. 125

Plant ID: 2E32-FE N006B,F,K,P

Flow Element Located in the Torus Room

Ametek Model 103K16HC177

Service: Inboard System Leakage Flow

CORRECTIVE ACTION: The cable and connector associated with the flow element will be replaced with a qualified cable and connector during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 126

Plant ID: 2B21-LT N027

Level Transmitter Located in the Reactor Building, Elev. 158'0"

GE/MAC 555111BDAA4WAJ

Service: Vessel Water Level (Wide Range)

CORRECTIVE ACTION: The transmitter will be replaced with a qualified Barton transmitter as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 127

Plant ID: 2E32-PT N061B,F,K,P

Pressure Transmitter Located in the Torus Room

Rosemount Model 1151GP6A52T0003PB

Service: Inboard Main Steam Line Pressure

CORRECTIVE ACTION: The transmitter will be replaced with a qualified Barton transmitter as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 127

Plant ID: 2E32-PT N051B,F,K,P
Pressure Transmitter Located in the Torus Room
Rosemount Model 1151GP6A52T0003PB
Service: Main Steam Line Pressure

CORRECTIVE ACTION: The transmitter will be replaced with a qualified Barton transmitter as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 128

Plant ID: 2B21-PT N051A,B
Pressure Transmitter Located in the Reactor Building, Elev. 158'0"
Bailey Meter Model 163C1292P004
Service: Reactor Pressure

CORRECTIVE ACTION: The transmitter will be replaced with a qualified Barton transmitter as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 129

Plant ID: 2E41-FT N008
Flow Transmitter Located in the HPCI Room
Bailey Meter Model 555111BDAA4WAL
Service: Pump Discharge Flow Signal to Turbine

CORRECTIVE ACTION: The transmitter will be replaced with a qualified Barton transmitter as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 130

Plant ID: 2E11-DPT N002A,B
D/P Transmitter Located in the Northeast and Southeast Corner Rooms
Rosemount Model 1151DP7B22MB
Service: HX-Shell to Tube

CORRECTIVE ACTION: The transmitter will be replaced with a qualified Barton transmitter as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 132

Plant ID: 2E32-PT N060
Pressure Transmitter Located in the Reactor Building, Elev. 158'0"
Rosemount Model 1151GP6A52T0003PB
Service: Reactor Vessel Pressure Inboard

CORRECTIVE ACTION: The transmitter will be replaced with a qualified Barton transmitter as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 132

Plant ID: 2E32-PT N058

Pressure Transmitter Located in the Reactor Building, Elev. 158'0"

Rosemount Model 1151GP6A52T0003PB

Service: Reactor Vessel Pressure Outboard

CORRECTIVE ACTION: The transmitter will be replaced with a qualified Barton transmitter as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 132

Plant ID: 2E32-PT N050

Pressure Transmitter Located in the Reactor Building, Elev. 158'0"

Rosemount Model 1151GP6A52T0003PB

Service: Reactor Vessel Pressure Inboard

CORRECTIVE ACTION: The transmitter will be replaced with a qualified Barton transmitter as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 134

Plant ID: 2E41-C002-1

Electric Motor Located in the HPCI Room

General Electric Model CD259AT

Service: Auxiliary Lube Oil Pump Motor

CORRECTIVE ACTION: An analysis, of the equipment associated with the HPCI turbine and required to mitigate the consequences of an accident, was performed to determine the equipment for which qualification could be established. Equipment, whose qualification can not be established, will be replaced or relocated during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 136

Plant ID: 2E41-C002-3

Electric Motor Located in the HPCI Room

General Electric Model 1610ATC

Service: Gland Seal Pump Motor

CORRECTIVE ACTION: An analysis, of the equipment associated with the HPCI turbine and required to mitigate the consequences of an accident, was performed to determine the equipment for which qualification could be established. Equipment, whose qualification can not be established, will be replaced or relocated during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 137

Plant ID: 2E41-C002-2

Electric Motor Located in the HPCI Room

Reliance Electric Model 215AY

Service: Condensate Vacuum Pump Motor

CORRECTIVE ACTION: An analysis, of the equipment associated with the HPCI turbine and required to mitigate the consequences of an accident, was performed to determine the equipment for which qualification could be established. Equipment, whose qualification can not be established, will be replaced or relocated during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 139

Plant ID: 2E32-C001

Electric Motor Located in the Torus Room

Siemens-Allis Model 2CH6042IU

Service: Inboard Leak Control Blower

CORRECTIVE ACTION: Georgia Power Company has reviewed summaries of the qualification documentation and found them acceptable. Georgia Power Company has received the qualification documentation and will complete the review by June 10, 1983.

TER EQUIPMENT ITEM NO. 139

Plant ID: 2E32-C002A,E

Electric Motor Located in the Torus Room

Siemens-Allis Model 2CH6042IU

Service: Outboard Leak Control Blower

CORRECTIVE ACTION: Georgia Power Company has reviewed summaries of the qualification documentation and found them acceptable. Georgia Power Company has received qualification documentation and will complete the review by June 10, 1983.

TER EQUIPMENT ITEM NO. 142

Plant ID: 2P33-P001A,B

Hydrogen-Oxygen Analyzer Located in the Reactor Building, Elev. 158'0"

Comsip-Delphi Model H2CDIB561B6C/02CDIB6G1B6C

Service: Primary Containment H₂ and O₂ Analyzer

CORRECTIVE ACTION: The H₂ and O₂ analyzer will be replaced with a qualified Comsip Type K-IV H₂ and O₂ analyzer during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 151

Plant ID: 2E41-C002

Turbine Located in the HPCI Room

Terry Model CCS

Service: HPCI Turbine

CORRECTIVE ACTION: An analysis, of the equipment associated with the HPCI Turbine and required to mitigate the consequences of an accident, was performed to determine the equipment for which qualification could be established. Equipment, whose qualification can not be established, will be replaced or relocated during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 153

Plant ID: Buchanan Phenolic

Terminal Block Located Inside and Outside the Drywell

Amerace Model 515,222 and 212

Service: Terminal Blocks

CORRECTIVE ACTION: Georgia Power Company is in the process of obtaining Qualification Test Reports for Buchanan Terminal Blocks. Upon receipt of the test report, Georgia Power Company will evaluate the test report against the plant specific parameters. The evaluation of these test reports will be completed by the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 181

Plant ID: 2B21-LITS N026A,B

Level Transmitter Switch Located in the Reactor Building, Elev. 158'0"

Yarway Model 4418CE

Service: Reactor Level - RCIC

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 182

Plant ID: 2B21-LIS N025A,B

Level Indicating Switch Located in the Reactor Building, Elev. 158'0"

Yarway Model 4418C

Service: SCRAM-Close Main Steam Isolation Valve

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 182

Plant ID: 2B21-LIS N024A,B

Level Indicating Switch Located in the Reactor Building, Elev. 158'0"

Yarway Model 4418C

Service: SCRAM-Close Main Steam Isolation Valve

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 183

Plant ID: 2E11-DPIS N021A,B

D/P Switch Located in the Northeast and Southeast Corner Rooms

Barton Model 289

Service: Heat Exchanger Discharge Header

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 184

Plant ID: 2E51-DPIS N017

D/P Switch Located in the Reactor Building, Elev. 130'0"

Barton Model 288

Service: RCIC Steam Line Hi Diff. Press.

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 184

Plant ID: 2E51-DPIS N018

D/P Switch Located in the Reactor Building, Elev. 130'0"

Barton Model 288

Service: RCIC Steam Line Hi Diff. Press.

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 185

Plant ID: 2B21-DPIS N009A,B,C,D

D/P Switch Located in the Reactor Building, Elev. 130'0"

Barton Model 288

Service: Main Steam Flow Indicating Switch

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 185

Plant ID: 2B21-DPIS N008A,B,C,D

D/P Switch Located in the Reactor Building, Elev. 130'0"

Barton Model 288

Service: Main Steam Flow Indicating Switch

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 185

Plant ID: 2B21-DPIS N007A,B,C,D

D/P Switch Located in the Reactor Building, Elev. 130'0"

Barton Model 288

Service: Main Steam Flow Indicating Switch

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 185

Plant ID: 2B21-DPIS N006A,B,C,D

D/P Switch Located in the Reactor Building, Elev. 130'0"

Barton Model 288

Service: Main Steam Flow Indicating Switch

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 186

Plant ID: 2B21-PS N021C

Pressure Switch Located in the Reactor Building, Elev. 130'0"

Barton Model 288

Service: Core Spray and RHR Valve OP Perm.

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 186

Plant ID: 2B21-PS N021B

Pressure Switch Located in the Reactor Building, Elev. 158'0"

Barton Model 288

Service: Core Spray and RHR Valve OP Perm.

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage.

TER EQUIPMENT ITEM NO. 190

Plant ID: 2E32-MOV F002B,F,K,P

Motorized Valve Actuator Located in the Pipe Chase

Limatorque Model SMB, AC Service, Class B Insulation

Service: Main Steam Line Leakage Control Isolation Valve

CORRECTIVE ACTION: The motor for this motor operated valve will be replaced with a qualified motor prior to or during the Unit 2, 1983 Refueling Outage.

TER EQUIPMENT ITEM NO. 190

Plant ID: 2E32-MOV F009

Motorized Valve Actuator Located in the Pipe Chase

Limatorque Model SMB, AC Service, Class B Insulation

Service: Main Steam Line Leakage Control Isolation Valve

CORRECTIVE ACTION: The motor for this motor operated valve will be replaced with a qualified motor prior to or during the Unit 2, 1983 Refueling Outage.

TER EQUIPMENT ITEM NO. 190

Plant ID: 2E32-MOV F008

Motorized Valve Actuator Located in the Pipe Chase

Limatorque Model SMB, AC Service, Class B Insulation

Service: Main Steam Line Leakage Control Isolation Valve

CORRECTIVE ACTION: The motor for this motor operated valve will be replaced with a qualified motor prior to or during the Unit 2, 1983 Refueling Outage.

TER EQUIPMENT ITEM NO. 190

Plant ID: 2E32-MOV F007

Motorized Valve Actuator Located in the Pipe Chase

Limatorque Model SMB, AC Service, Class B Insulation

Service: Main Steam Line Leakage Control Isolation Valve

CORRECTIVE ACTION: The motor for this motor operated valve will be replaced with a qualified motor prior to or during the Unit 2, 1983 Refueling Outage.

TER EQUIPMENT ITEM NO. 190

Plant ID: 2E32-MOV F006

Motorized Valve Actuator Located in the Pipe Chase

Limiter Model SMB, AC Service, Class B Insulation

Service: Main Steam Line Leakage Control Isolation Valve

CORRECTIVE ACTION: The motor for this motor operated valve will be replaced with a qualified motor prior to or during the Unit 2, 1984 Refueling Outage.

The following equipment was not addressed in Franklin Research Center's Technical Evaluation Report. However, the equipment is part of Georgia Power Company's I.E. Bulletin 79-01B Open Item Equipment List.

Plant ID: 2P52-PS N002

Pressure Switch Located in the Reactor Building, Elev. 130'0"

Static-O-Ring Model 6V2-EE5-CGGTTX5

Service: Non-Interruptible

CORRECTIVE ACTION: The transmitter will be replaced with a qualified Rosemount Type 1153 transmitter during the Unit 2, 1984 Refueling Outage. Justification for Continued Operation for this item has been previously submitted to the NRC in Georgia Power Company's response to NRC I. E. Bulletin 79-01B - Environmental Qualification of Class 1E Equipment, Revision 4, dated January 8, 1982 for Edwin I. Hatch Nuclear Plant - Unit 2. The Justification can be found in Section B.3.1.1, on Page 19 and is still applicable.

Plant ID: 2B31-PS-N018A,B

Pressure Switch Located in the Reactor Building Elev. 130' 0"

Barksdale Model B2T-M12SS

Service: Recirculation Suction Pressure.

CORRECTIVE ACTION: The switch will be replaced with a qualified Barton transmitter and a qualified General Electric trip unit as part of the Analog Transmitter Trip System (ATTS). ATTS will be installed prior to or during the Unit 2, 1984 Refueling Outage. Justification for Continued Operation was provided by Georgia Power Company in the I. E. Bulletin 79-01B Status Update, dated January 3, 1983 and is still applicable.