

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

W. L. STEWART
VICE PRESIDENT
NUCLEAR OPERATIONS

January 11, 1985

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
Attn: Mr. Steven A. Varga, Chief
Operating Reactors Branch No. 1
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Serial No. 286
E&C/PEC:klh:2008N
Docket Nos. 50-280
50-281
License Nos. DPR-32
DPR-37

Gentlemen:

VIRGINIA ELECTRIC AND POWER COMPANY
SURRY POWER STATION
RESOLUTION OF SER'S FOR ENVIRONMENTAL QUALIFICATION
OF SAFETY-RELATED ELECTRICAL EQUIPMENT

On January 26, 1983, Vepco received the Safety Evaluation Report (SER) regarding the Environmental Qualification of Safety-Related Electrical Equipment at Surry Power Station Units 1 and 2. The SER contained a Technical Evaluation Report (TER), written by Franklin Research Center (FRC), under contract to the NRC, which noted a number of environmental qualification deficiencies for safety-related electrical equipment at Surry. Vepco formally responded to the TER deficiencies on March 9, 1983 (Serial No. 085C). On March 19, 1984, Vepco met with members of the NRC Staff to discuss our method of resolution for each of the deficiencies noted in the Surry TER. The TER deficiencies identified and their resolutions are contained in Attachment 1, which is Vepco's "Status of Environmental Qualification of Electrical Equipment" for the Surry Power Station. This attachment also contains the list of equipment at Surry within the scope of 10CFR50.49. Appropriate notations have been added to the list which indicate whether equipment 1) is qualified, 2) will be qualified and on what schedule, or 3) deleted from the list. With the exception of NUREG-0737 items, the equipment identified as "will be qualified" at the next refueling outage is accompanied by a Justification for Continued Operation (JCO) which is provided in Attachment 2. The JCO's listed in Attachment 2 are all of the currently applicable JCO's. Several JCO's previously provided to the NRC are no longer applicable as the equipment referenced by the JCO has since been qualified. The remaining JCO's have been reviewed and updated as appropriate.

At the March 19, 1984 meeting, the Staff also requested confirmation that all design-basis events at Surry Power Station which could result in a potentially harsh environment, including flooding outside containment, were addressed in identifying safety-related electrical equipment required to be environmentally qualified. The flooding and environmental effects resulting from postulated design-basis accidents are documented in the Surry Final Safety Analysis Report (FSAR). The effects of flooding and the environmental effects resulting from High-Energy Line Breaks (HELB) outside containment are documented in the response to the initial Safety Evaluation Report for Unit 1

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dated August 24, 1981 (Serial No. 329). Approval of these responses are documented in Sections 4.3.5 and 4.3.3.2 respectively of the TER. Therefore, all design-basis events which could potentially result in a harsh environment at Surry Power Station, were considered in the identification of electrical equipment within the scope of Paragraph(b)(1) of 10CFR50.49.

Additionally, it was requested at the March 19, 1984 NRC/Vepco meeting that Vepco's general methodology for the identification of equipment within the scope of 10CFR50.49, paragraph (b) be provided. Following is a summary of the methodology used in identifying the equipment:

(A) Safety-Related Electric Equipment - 10CFR50.49(b)(1)

Vepco prepared its initial list of safety-related electric equipment in response to IEB 79-01B by determining which safety-related plant electrical equipment is required to function to obtain hot safe shutdown. This list was based on reviews of the Final Safety Analysis Report (FSAR), Technical Specifications, Emergency Operating Procedures and flow and electrical diagrams for safety systems. Mechanical and auxiliary systems necessary to support the operation of equipment on the Environmental Qualification Master List (EQML) (e.g. cooling water or lubricating systems) were also considered. The electrical equipment identified is incorporated into the EQML, which was reviewed and accepted by the NRC on May 20, 1981. Subsequent to that time, electrical items which were installed due to TMI requirements and are located in a harsh environment have been added, and items to be qualified under Regulatory Guide 1.97 have been identified on the EQML. With the issuance of the EQ Rule (10CFR50.49), those EQML items identified as located in a mild environment were deleted. Subsequent reviews and/or local refinements of the Environmental Zone Descriptions have identified a few additional mild environment items, which have also been deleted.

(B) Non-Safety Related Equipment - 10CFR50.49(b)(2)

The methodology for the "(b)(2)" review was submitted to the NRC by our letter dated December 1, 1983 (Serial No. 668A). In summary, paragraph (b)(2) of 10CFR50.49 requires that licensees identify "Nonsafety-related electric equipment whose failure under postulated environmental conditions could prevent satisfactory accomplishment of safety functions ...". The methodology that was used to identify such equipment is summarized below:

1. A list of safety-related electrical equipment (as defined in paragraph (b)(1) of 10CFR50.49) required to remain functional during or following design-basis Loss of Coolant Accident (LOCA) or High Energy Line Break (HELB) Accidents was generated. The LOCA/HELB accidents are the only design-basis accidents which result in significantly adverse environments to electrical equipment which is required for safe shutdown or accident mitigation. The list was based on reviews of the Final Safety Analysis Report (FSAR), Technical Specifications, Emergency

Operating Procedures, and flow and electrical diagrams for safety systems.

2. The elementary wiring diagrams of the safety-related electrical equipment identified in Step 1 have been reviewed to identify any auxiliary devices electrically connected directly into the control or power circuitry of the safety-related equipment (e.g., automatic trips) whose failure due to postulated environmental conditions could prevent the required operation of the safety-related equipment.
3. The operation of the safety-related systems and equipment was reviewed to identify any directly mechanically connected auxiliary systems with electrical components which are necessary for the required operation of the safety-related equipment (e.g., cooling water or lubricating systems). This involved the review of electrical and flow diagrams, component technical manuals, and/or systems descriptions in the FSAR.
4. Nonsafety-related electrical circuits indirectly associated with the electrical equipment identified in Step 1 by common power supply or in physical proximity were considered by a review of the original Surry Power Station electrical design including the use of applicable industry standards (e.g., IEEE, NEMA, ANSI, UL, and NEC) and the use of properly coordinated protective relays, circuit breakers, and fuses for electrical circuit fault protection.

The failure due to environmental effects on the systems and equipment identified by the process delineated in Steps 2, 3 or 4 above was reviewed for potential impact on the EQML equipment. No additional electrical equipment was identified by this review. However, the review did identify that a short circuit on certain non-safety branch circuits fed from the 120 VAC Vital Bus System could potentially degrade the voltage on the Vital Bus. Even though the likelihood of such an occurrence is low, Vepco is proceeding to install in-line fuses to protect the Vital Bus from faults on the non-safety branch circuits.

Post-Accident Monitoring Equipment - 10CFR10.49(b)(3)

The Post-Accident monitoring instrumentation is presently derived from Regulatory Guide 1.97 Revision 3 by comparing, on a point-by-point basis, the list of generic points in Regulatory Guide 1.97 Revision 3 with existing plant parameters. The resultant list, including the equipment to be added, was transmitted to the NRC on January 31, 1984 (Serial No. 053). Upon completion of that review and agreement by Vepco and the NRC on the appropriate list, the Category 1 and 2 variables will be added to the EQML. Certain of these items have been identified in Attachment 1 and will be upgraded under the Regulatory Guide 1.97 implementation schedule.

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During the March 19, 1984 meeting, the NRC staff inquired about the Vepco plans for long-term maintenance of environmentally qualified electrical equipment. We recognize this to be an important aspect of the environmental qualification program. Accordingly, we have been taking steps to integrate an effective EQ maintenance program into existing station programs. Upon complete implementation, Vepco's surveillance/maintenance program will ensure continued qualification of equipment on the EQML and will consist of the following basic components:

- Documentation of the surveillance/maintenance program requirements and responsibilities
- Documentation of maintenance/surveillance requirements
- Control of maintenance/surveillance practices
- Maintenance/surveillance training
- Control of replacement parts
- Routine preventive maintenance, including replacement of aged parts at the end of their design life
- Failure trend analysis
- Control of maintenance/surveillance records

The continued maintenance of "qualified" electrical equipment will also depend on the incorporation of pertinent information disseminated to the industry. Such information is available from several sources, such as equipment vendors, INPO and the NRC (primarily via I&E Notices and Bulletins). Proper review of this information for applicability is performed by Vepco at both the corporate and station level and is documented. If such industry information affects the qualification status of any electrical equipment, the information will be factored into the surveillance/maintenance program discussed previously.

In order to ensure that design modifications will not adversely affect the continued environmental qualification program, the Engineering Procedures will be revised to ensure EQ requirements are incorporated in Design Change Packages (DCPs) and that control of the EQML and qualification documents are addressed in future DCPs.

Vepco's aging evaluation program, which will be incorporated into the surveillance/maintenance programs as discussed above, was submitted to the NRC in the response to the initial SER's for Surry in mid-1981. Approval of Vepco's aging evaluation program, subject to implementation, is documented in section 4.3.6 to the TER.

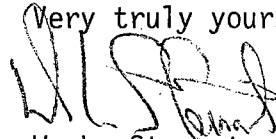
With the equipment identified and qualified, or scheduled for modification or replacement, Vepco's environmental qualification program, in response to the requirements of 10CFR50.49, is in place. The essence of this program as described in this letter includes the following: (1) identification of equipment covered by the EQ rule, (2) replacement of unqualified equipment in Units 1 and 2 as identified in Attachment 1, (3) the establishment of the supporting equipment qualification files (4) the submittal of necessary Justifications for Continued Operation (Attachment 2) and (5) complementary

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maintenance and surveillance programs are being developed and implemented based on the most recent upgrade of EQML equipment during the refueling outages. These programs will include the provisions for aging and failure trending to empirically validate and monitor service life for this equipment.

Accordingly, it is requested that a supplement SER be issued to indicate that Vepco's environmental qualification program, with the exceptions noted herein, has been implemented and that the January 26, 1983 SER deficiencies have been resolved.

Very truly yours,



W. L. Stewart

Attachments (2)

cc: Mr. James P. O'Reilly
Regional Administrator
Region II
USNRC

Mr. Don J. Burke
NRC Resident Inspector
Surry Power Station

ATTACHMENT 1
STATUS OF ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT
SURRY POWER STATION

NOTE & CATEGORY GUIDE

SURRY

- Note 1: Qualified equipment will be installed by the second refueling outage after March 31, 1982. These outage end dates are presently scheduled for completion by 12/14/84 and 05/02/85 for Units 1 and 2 respectively.
- Note 2: Will be upgraded to Regulatory Guide 1.97 requirements and added to the Master List in accordance with our NuReg-0737 Supplement 1 response by the third refueling after March 31, 1982. These outage end dates are presently scheduled for completion by 5/01/86 and 12/01/86 for Units 1 and 2 respectively.
- Note 3: As a result of IEIN 84-68 - Potential deficiency in improperly rated field wiring to solenoid valves - these NuReg-0737 items will have wiring deficiencies corrected at the next outage of sufficient duration that supports the engineering, procurement and construction schedules.

<u>NRC CATEGORY</u>	<u>CATEGORY DESCRIPTION</u>
I.A.	EQUIPMENT QUALIFIED
I.B	EQUIPMENT QUALIFICATION PENDING MODIFICATION REVIEW WAS NOT PERFORMED ON EQUIPMENT IDENTIFIED AS BEING REPLACED PRIOR TO COMMENCEMENT OF FAC REVIEW
II.A	EQUIPMENT QUALIFICATION NOT ESTABLISHED
II.B	EQUIPMENT NOT QUALIFIED
II.C	EQUIPMENT SATISFIES ALL REQUIREMENTS EXCEPT QUALIFIED LIFE OR REPLACEMENT SCHEDULE JUSTIFIED
III.A	EQUIPMENT EXEMPT FROM QUALIFICATION
III.B	EQUIPMENT NOT IN THE SCOPE OF THE REVIEW
IV.	DOCUMENTATION NOT MADE AVAILABLE

NOTE & CATEGORY GUIDE

SURRY

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NRC CATEGORY

CATEGORY DESCRIPTION

I.A.	EQUIPMENT QUALIFIED
I.B	EQUIPMENT QUALIFICATION PENDING MODIFICATION REVIEW WAS NOT PERFORMED ON EQUIPMENT IDENTIFIED AS BEING REPLACED PRIOR TO COMMENCEMENT OF FAC REVIEW
II.A	EQUIPMENT QUALIFICATION NOT ESTABLISHED
II.B	EQUIPMENT NOT QUALIFIED
II.C	EQUIPMENT SATISFIES ALL REQUIREMENTS EXCEPT QUALIFIED LIFE OR REPLACEMENT SCHEDULE. JUSTIFIED
III.A	EQUIPMENT EXEMPT FROM QUALIFICATION
III.B	EQUIPMENT NOT IN THE SCOPE OF THE REVIEW
IV.	DOCUMENTATION NOT MADE AVAILABLE

"STATUS OF ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT
AT SURRY POWER STATION FOR UNITS 1 & 2"

TECHNICAL
EVALUATION
REPORT
ITEM
NUMBER

U1	U2	DESCRIPTION	NRC CATEGORY	DEFICIENCY	RESOLUTION
1.		FISCHER PRESSURE TRANSMITTERS	I.B	DOCUMENTATION	
		PT-LM-100A Reactor Containment Pressure	Replaced	Rosemount 1153AB6	Qualified
		PT-LM-100B Reactor Containment Pressure	Replaced	Rosemount 1153AB6	Qualified
		PT-LM-100C Reactor Containment Pressure	Replaced	Rosemount 1153AB6	Qualified
		PT-LM-100D Reactor Containment Pressure	Replaced	Rosemount 1153AB6	Qualified
6.		PT-LM-200A Reactor Containment Pressure	Replaced	Rosemount 1153AB6	Qualified
6.		PT-LM-200B Reactor Containment Pressure	Replaced	Rosemount 1153AB6	Qualified
6.		PT-LM-200C Reactor Containment Pressure	Replaced	Rosemount 1153AB6	Qualified
6.		PT-LM-200D Reactor Containment Pressure	Replaced	Rosemount 1153AB6	Qualified
2.		FISCHER PRESSURE TRANSMITTERS	I.B	DOCUMENTATION	
		PT-1455 Pressurizer Pressure Protection	Replaced	Rosemount 1153GD8	Qualified
		PT-1456 Pressurizer Pressure Protection	Replaced	Rosemount 1153GD8	Qualified
		PT-1457 Pressurizer Pressure Protection	Replaced	Rosemount 1153GD8	Qualified
3.		PT-2455 Pressurizer Pressure Protection	Replaced	Rosemount 1153GD8	Qualified
3.		PT-2456 Pressurizer Pressure Protection	Replaced	Rosemount 1153GD8	Qualified
3.		PT-2457 Pressurizer Pressure Protection	Replaced	Rosemount 1153GD8	Qualified
3.		FISCHER PRESSURE TRANSMITTERS	II.A	DOCUMENTATION	
		PT-RS-156A Outside Recirculation Spray Pump Discharge	Replaced	Rosemount 1153GB7	Qualified
		PT-RS-156B Outside Recirculation Spray Pump Discharge	Replaced	Rosemount 1153GB7	Qualified
1.		PT-RS-256A Outside Recirculation Spray Pump Discharge			Note 1
1.		PT-RS-256B Outside Recirculation Spray Pump Discharge			Note 1
4.		ROSEMOUNT PRESSURE TRANSMITTERS	II.B	ANOMALIES	
		PT-RC-1402-1 Reactor Coolant System	Replaced	Rosemount 1153GD9	Qualified
		PT-RC-1402 Reactor Coolant System	Replaced	Rosemount 1153GD9	Qualified
2.		PT-RC-2402 Reactor Coolant System	Replaced	Rosemount 1153GD9	Qualified
2.		PT-RC-2402-1 Reactor Coolant System	Replaced	Rosemount 1153GD9	Qualified

"STATUS OF ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT
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TECHNICAL
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		DESCRIPTION	NRC CATEGORY	DEFICIENCY	RESOLUTION
U1	U2				
5.		FISCHER PRESSURE TRANSMITTERS	I.B	DOCUMENTATION	
		PT-1464 Steam Header Pressure	Replaced	Rosemount 1153GB9	Qualified
		PT-1466 Steam Header Pressure	Replaced	Rosemount 1153GB9	Qualified
		PT-1468 Steam Header Pressure	Replaced	Rosemount 1153GB9	Qualified
4.		PT-2464 Steam Header Pressure	Replaced	Rosemount 1153GB9	Qualified
4.		PT-2466 Steam Header Pressure	Replaced	Rosemount 1153GB9	Qualified
4.		PT-2468 Steam Header Pressure	Replaced	Rosemount 1153GB9	Qualified
6.		FISCHER PRESSURE TRANSMITTERS	I.B	DOCUMENTATION	
		PT-1474 Steam Generator 1 Steam Pressure	Replaced	Rosemount 1153GB9	Qualified
		PT-1475 Steam Generator 1 Steam Pressure	Replaced	Rosemount 1153GB9	Qualified
		PT-1476 Steam Generator 1 Steam Pressure	Replaced	Rosemount 1153GB9	Qualified
		PT-1484 Steam Generator 2 Steam Pressure	Replaced	Rosemount 1153GB9	Qualified
		PT-1485 Steam Generator 2 Steam Pressure	Replaced	Rosemount 1153GB9	Qualified
		PT-1486 Steam Generator 2 Steam Pressure	Replaced	Rosemount 1153GB9	Qualified
		PT-1494 Steam Generator 3 Steam Pressure	Replaced	Rosemount 1153GB9	Qualified
		PT-1495 Steam Generator 3 Steam Pressure	Replaced	Rosemount 1153GB9	Qualified
		PT-1496 Steam Generator 3 Steam Pressure	Replaced	Rosemount 1153GB9	Qualified
5.		PT-2474 Steam Generator Steam Pressure	Replaced	Rosemount 1153GB9	Qualified
5.		PT-2475 Steam Generator Steam Pressure	Replaced	Rosemount 1153GB9	Qualified
5.		PT-2476 Steam Generator Steam Pressure	Replaced	Rosemount 1153GB9	Qualified
5.		PT-2484 Steam Generator Steam Pressure	Replaced	Rosemount 1153GB9	Qualified
5.		PT-2485 Steam Generator Steam Pressure	Replaced	Rosemount 1153GB9	Qualified
5.		PT-2486 Steam Generator Steam Pressure	Replaced	Rosemount 1153GB9	Qualified
5.		PT-2494 Steam Generator Steam Pressure	Replaced	Rosemount 1153GB9	Qualified
5.		PT-2495 Steam Generator Steam Pressure	Replaced	Rosemount 1153GB9	Qualified
5.		PT-2496 Steam Generator Steam Pressure	Replaced	Rosemount 1153GB9	Qualified
6A.		FISHER PRESSURE TRANSMITTERS	III.A	NONE	
		PT-1921 Accumulator Pressure	Considered	Cat III - R.G. 1.97	Deleted
		PT-1925 Accumulator Pressure	Considered	Cat III - R.G. 1.97	Deleted
		PT-1929 Accumulator Pressure	Considered	Cat III - R.G. 1.97	Deleted
5A.		PT-2921 Accumulator Pressure	Considered	Cat III - R.G. 1.97	Deleted
5A.		PT-2925 Accumulator Pressure	Considered	Cat III - R.G. 1.97	Deleted
5A.		PT-2929 Accumulator Pressure	Considered	Cat III - R.G. 1.97	Deleted

"STATUS OF ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT
AT SURRY POWER STATION FOR UNITS 1 & 2"

TECHNICAL
EVALUATION
REPORT
ITEM
NUMBER

DESCRIPTION

NRC
CATEGORY

DEFICIENCY

RESOLUTION

U1 U2

6B. ITT BARTON PRESSURE TRANSMITTERS

II.A

RADIATION

	LT-1310	Reactor Vessel Level	NuReg-0737	Note 1
	LT-1311	Reactor Vessel Level	NuReg-0737	Note 1
	LT-1312	Reactor Vessel Level	NuReg-0737	Note 1
	LT-1320	Reactor Vessel Level	NuReg-0737	Note 1
	LT-1321	Reactor Vessel Level	NuReg-0737	Note 1
	LT-1322	Reactor Vessel Level	NuReg-0737	Note 1
19A	LT-2310	Reactor Vessel Level	NuReg-0737	Note 1
19A	LT-2311	Reactor Vessel Level	NuReg-0737	Note 1
19A	LT-2312	Reactor Vessel Level	NuReg-0737	Note 1
19A	LT-2320	Reactor Vessel Level	NuReg-0737	Note 1
19A	LT-2321	Reactor Vessel Level	NuReg-0737	Note 1
19A	LT-2322	Reactor Vessel Level	NuReg-0737	Note 1

104. ROSEMOUNT PRESSURE TRANSMITTERS

II.A

DOCUMENTATION

	PT-LM-101A	Reactor Containment Pressure	Replaced Rosemount 1153AB7PA	Qualified
	PT-LM-101B	Reactor Containment Pressure	Replaced Rosemount 1153AB7PA	Qualified
116.	PT-LM-201A	Reactor Containment Pressure		Note 1
116.	PT-LM-201B	Reactor Containment Pressure		Note 1

11. FISHER FLOW TRANSMITTERS

I.B

DOCUMENTATION

	FT-FW-100A	Steam Generator 1A Auxiliary Feedwater Flow	Replaced	Rosemount 1153HD5	Qualified
	FT-FW-100B	Steam Generator 2A Auxiliary Feedwater Flow	Replaced	Rosemount 1153HD5	Qualified
	FT-FW-100C	Steam Generator 3A Auxiliary Feedwater Flow	Replaced	Rosemount 1153HD5	Qualified
15.	FT-FW-200A	Steam Generator 1A Auxiliary Feedwater Flow	Replaced	Rosemount 1153DD5	Qualified
15.	FT-FW-200B	Steam Generator 2A Auxiliary Feedwater Flow	Replaced	Rosemount 1153DD5	Qualified
15.	FT-FW-200C	Steam Generator 3A Auxiliary Feedwater Flow	Replaced	Rosemount 1153DD5	Qualified

"STATUS OF ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT
AT SURRY POWER STATION FOR UNITS 1 & 2"

TECHNICAL EVALUATION REPORT ITEM NUMBER		DESCRIPTION	NRC CATEGORY	DEFICIENCY	RESOLUTION
U1	U2				
12.		FISHER FLOW TRANSMITTERS	I.B	DOCUMENTATION	
		FT-1474 Steam-Flow Transmitter	Replaced	Rosemount 1153DD6	Qualified
		FT-1475 Steam-Flow Transmitter	Replaced	Rosemount 1153DD6	Qualified
		FT-1484 Steam-Flow Transmitter	Replaced	Rosemount 1153DD6	Qualified
		FT-1485 Steam-Flow Transmitter	Replaced	Rosemount 1153DD6	Qualified
		FT-1494 Steam-Flow Transmitter	Replaced	Rosemount 1153DD6	Qualified
		FT-1495 Steam-Flow Transmitter	Replaced	Rosemount 1153DD6	Qualified
13A.		FT-2474 Steam Flow Transmitter	Replaced	Rosemount 1153DD6	Qualified
13A.		FT-2475 Steam Flow Transmitter	Replaced	Rosemount 1153DD6	Qualified
13A.		FT-2484 Steam Flow Transmitter	Replaced	Rosemount 1153DD6	Qualified
13A.		FT-2485 Steam Flow Transmitter	Replaced	Rosemount 1153DD6	Qualified
13A.		FT-2494 Steam Flow Transmitter	Replaced	Rosemount 1153DD6	Qualified
13A.		FT-2495 Steam Flow Transmitter	Replaced	Rosemount 1153DD6	Qualified
12A.		FISHER FLOW TRANSMITTERS	I.B	DOCUMENTATION	
		FT-1940 Safety Injection Header Flow, Hot Leg	Replaced	Rosemount 1153DB6	Qualified
		FT-1943 Boron Injection Tank Header Flow	Replaced	Rosemount 1153DB6	Qualified
15A.		FT-2940 Safety Injection Header Flow, Hot Leg			Note 2
15A.		FT-2943 Boron Injection Tank Header Flow			Note 2
13.		ROSEMOUNT FLOW TRANSMITTERS	II.A	DOCUMENTATION	
		FT-1945 Low Head Injection Header	Replaced	Rosemount 1153DB5PA	Qualified
		FT-1946 Low Head Injection Header	Replaced	Rosemount 1153DB5PA	Qualified
13.		FT-2945 Low Head Injection Header			Note 1
13.		FT-2946 Low Head Injection Header			Note 1
14.		BARTON FLOW TRANSMITTERS	II.A	DOCUMENTATION	
		FT-1961 Cold Leg Safety Injection			Note 1
		FT-1962 Cold Leg Safety Injection			Note 1
		FT-1963 Cold Leg Safety Injection			Note 1
12.		FT-2961 Cold Leg Safety Injection			Note 1
12.		FT-2962 Cold Leg Safety Injection			Note 1
12.		FT-2963 Cold Leg Safety Injection			Note 1

"STATUS OF ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT
AT SURRY POWER STATION FOR UNITS 1 & 2"

TECHNICAL EVALUATION REPORT ITEM NUMBER		DESCRIPTION	NRC CATEGORY	DEFICIENCY	RESOLUTION
U1	U2				
15.		FISCHER - PORTER FLOW TRANSMITTERS	III.A	NONE	
		FT-1122 Charging Flow	Deleted R-4 dated 8/24/81-	79-01B	Deleted
14.		FT-2122 Charging Flow	Deleted R-4 dated 8/24/81-	79-01B	Deleted
16.		ROSEMOUNT LEVEL TRANSMITTERS	II.B	DOCUMENTATION	
		LT-1475 Steam Generator Narrow Range Level	Replaced	Rosemount 1153DD5	Qualified
		LT-1476 Steam Generator Narrow Range Level	Replaced	Rosemount 1153DD5	Qualified
		LT-1484 Steam Generator Narrow Range Level	Replaced	Rosemount 1153DD4	Qualified
		LT-1485 Steam Generator Narrow Range Level	Replaced	Rosemount 1153DD4	Qualified
		LT-1486 Steam Generator Narrow Range Level	Replaced	Rosemount 1153DD4	Qualified
		LT-1494 Steam Generator Narrow Range Level	Replaced	Rosemount 1153DD4	Qualified
		LT-1495 Steam Generator Narrow Range Level	Replaced	Rosemount 1153DD4	Qualified
		LT-1496 Steam Generator Narrow Range Level	Replaced	Rosemount 1153DD4	Qualified
19.		LT-2475 Steam Generator Narrow Range Level	Replaced	Rosemount 1153DD4	Qualified
19.		LT-2476 Steam Generator Narrow Range Level	Replaced	Rosemount 1153DD4	Qualified
19.		LT-2484 Steam Generator Narrow Range Level	Replaced	Rosemount 1153DD4	Qualified
19.		LT-2485 Steam Generator Narrow Range Level	Replaced	Rosemount 1153DD4	Qualified
19.		LT-2486 Steam Generator Narrow Range Level	Replaced	Rosemount 1153DD4	Qualified
19.		LT-2494 Steam Generator Narrow Range Level	Replaced	Rosemount 1153DD4	Qualified
19.		LT-2495 Steam Generator Narrow Range Level	Replaced	Rosemount 1153DD4	Qualified
19.		LT-2496 Steam Generator Narrow Range Level	Replaced	Rosemount 1153DD4	Qualified
17.		ROSEMOUNT LEVEL TRANSMITTERS	I.B	DOCUMENTATION	
		LT-1474 Steam Generator Narrow Range Level	Replaced	Rosemount 1153DD4	Qualified
		ROSEMOUNT LEVEL TRANSMITTERS	I.B	NONE	
19.		LT-2474 Steam Generator Narrow Range Level	Replaced	Rosemount 1153DD4	Qualified

"STATUS OF ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT
AT SURRY POWER STATION FOR UNITS 1 & 2"

TECHNICAL EVALUATION REPORT ITEM NUMBER		DESCRIPTION	NRC CATEGORY	DEFICIENCY	RESOLUTION
U1	U2				
18.		ROSEMOUNT LEVEL TRANSMITTERS	II.B	ANOMALIES	
		LT-1477 Steam Generator Wide Range			Note 1
		LT-1487 Steam Generator Wide Range			Note 1
		LT-1497 Steam Generator Wide Range			Note 1
16.		LT-2477 Steam Generator Wide Range			Note 1
16.		LT-2487 Steam Generator Wide Range			Note 1
16.		LT-2497 Steam Generator Wide Range			Note 1
19.		BARTON LEVEL TRANSMITTERS	I.B	DOCUMENTATION	
		LT-1459 Reactor Coolant Pressurizer Level Protection	Replaced	Rosemount 1153HD5	Qualified
		LT-1460 Reactor Coolant Pressurizer Level Protection	Replaced	Rosemount 1153HD5	Qualified
		LT-1461 Reactor Coolant Pressurizer Level Protection	Replaced	Rosemount 1153HD5	Qualified
18.		LT-2459 Reactor Coolant Pressurizer Level Protection	Replaced	Rosemount 1153HD5	Qualified
18.		LT-2460 Reactor Coolant Pressurizer Level Protection	Replaced	Rosemount 1153HD5	Qualified
18.		LT-2461 Reactor Coolant Pressurizer Level Protection	Replaced	Rosemount 1153HD5	Qualified
20.		GEMS LEVEL TRANSMITTERS	II.A	DOCUMENTATION	
		LT-RS-151A-2 Containment Sump Level Transmitter	Documentation submitted 03/09/83		Qualified
		LT-RS-151A-1 Containment Sump Level Transmitter	Documentation submitted 03/09/83		Qualified
		LT-RS-151B-1 Containment Sump Level Transmitter	Documentation submitted 03/09/83		Qualified
		LT-RS-151B-2 Containment Sump Level Transmitter	Documentation submitted 03/09/83		Qualified
17.		LT-RS-251A-2 Containment Sump Level Transmitter	Documentation submitted 03/09/83		Qualified
17.		LT-RS-251A-1 Containment Sump Level Transmitter	Documentation submitted 03/09/83		Qualified
17.		LT-RS-251B-1 Containment Sump Level Transmitter	Documentation submitted 03/09/83		Qualified
17.		LT-RS-251B-2 Containment Sump Level Transmitter	Documentation submitted 03/09/83		Qualified
106.		GEMS LEVEL TRANSMITTERS	II.A	DOCUMENTATION	
		LT-RS-151A Reactor Containment Water Level (Wide Range)	Duplicate TER-20 (U1) above		Deleted
		LT-RS-151B Reactor Containment Water Level (Wide Range)	Duplicate TER-20 (U1) above		Deleted
118.		LT-RS-251A Reactor Containment Water Level (Wide Range)	Duplicate TER-17 (U2) above		Deleted
118.		LT-RS-251B Reactor Containment Water Level (Wide Range)	Duplicate TER-17 (U2) above		Deleted

"STATUS OF ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT
AT SURRY POWER STATION FOR UNITS 1 & 2"

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U1 U2

107. GEMS LEVEL TRANSMITTERS

II.A

DOCUMENTATION

LT-DA-110A	Reactor Containment Sump Water Level, Narrow Range
LT-DA-110B	Reactor Containment Sump Water Level, Narrow Range
119. LT-DA-210A	Reactor Containment Sump Water Level, Narrow Range
119. LT-DA-210B	Reactor Containment Sump Water Level, Narrow Range

Documentation Submitted 03/09/83
Documentation Submitted 03/09/83
Documentation Submitted 03/09/83
Documentation Submitted 03/09/83

Qualified
Qualified
Qualified
Qualified

**"STATUS OF ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT
AT SURRY POWER STATION FOR UNITS 1 & 2"**

TECHNICAL EVALUATION REPORT ITEM NUMBER		DESCRIPTION	NRC CATEGORY	DEFICIENCY	RESOLUTION
U1	U2				
31.		ROSEMOUNT TEMPERATURE ELEMENTS	I.B	DOCUMENTATION	
		TE-1413 Reactor Coolant System Temperature Element Hot Leg Loop 1			Note 1
		TE-1423 Reactor Coolant System Temperature Element Hot Leg Loop 2			Note 1
		TE-1433 Reactor Coolant System Temperature Element Hot Leg Loop 3			Note 1
		TE-1412B Reactor Coolant Delta Temperature Average Protection System Loop 1			Note 1
		TE-1412D Reactor Coolant Delta Temperature Average Protection System Loop 1			Note 1
		TE-1422B Reactor Coolant Delta Temperature Average Protection System Loop 2			Note 1
		TE-1422D Reactor Coolant Delta Temperature Average Protection System Loop 2			Note 1
		TE-1432B Reactor Coolant Delta Temperature Average Protection System Loop 3			Note 1
		TE-1432D Reactor Coolant Delta Temperature Average Protection System Loop 3			Note 1
		TE-1420 Reactor Coolant System Temperature Element Cold Leg Loop 2			Note 1
		TE-1430 Reactor Coolant System Temperature Element Cold Leg Loop 3			Note 1
		TE-1410 Reactor Coolant System Temperature Element Cold Leg Loop 1			Note 1
		ROSEMOUNT TEMPERATURE ELEMENTS	I.B	DOCUMENTATION AGING QUALIFIED LIFE SPRAY FUNCTIONAL TESTING INSTRUMENT ACCURACY	
24.		TE-2410 Reactor Coolant System Temperature Element Cold Leg Loop 1			Note 1
24.		TE-2420 Reactor Coolant System Temperature Element Cold Leg Loop 2			Note 1
24.		TE-2430 Reactor Coolant System Temperature Element Cold Leg Loop 3			Note 1
24.		TE-2412B Reactor Coolant Delta Temperature Average Protection System Loop 1			Note 1
24.		TE-2412D Reactor Coolant Delta Temperature Average Protection System Loop 1			Note 1
24.		TE-2422B Reactor Coolant Delta Temperature Average Protection System Loop 2			Note 1
24.		TE-2422D Reactor Coolant Delta Temperature Average Protection System Loop 2			Note 1
24.		TE-2432B Reactor Coolant Delta Temperature Average Protection System Loop 3			Note 1
24.		TE-2432D Reactor Coolant Delta Temperature Average Protection System Loop 3			Note 1
24.		TE-2413 Reactor Coolant System Temperature Element Hot Leg Loop 1			Note 1
24.		TE-2423 Reactor Coolant System Temperature Element Hot Leg Loop 2			Note 1
24.		TE-2433 Reactor Coolant System Temperature Element Hot Leg Loop 3			Note 1

"STATUS OF ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT
AT SURRY POWER STATION FOR UNITS 1 & 2"

TECHNICAL EVALUATION REPORT ITEM NUMBER		DESCRIPTION	NR CATEGORY	DEFICIENCY	RESOLUTION
U1	U2				
31A.		ROSEMOUNT TEMPERATURE ELEMENTS	I.B	DOCUMENTATION	
		TE-1411B Reactor Coolant System Narrow Range Temperature			Note 1
		TE-1411C Reactor Coolant System Narrow Range Temperature			Note 1
		TE-1411D Reactor Coolant System Narrow Range Temperature			Note 1
		TE-1412C Reactor Coolant System Narrow Range Temperature			Note 1
		TE-1421B Reactor Coolant System Narrow Range Temperature			Note 1
		TE-1421C Reactor Coolant System Narrow Range Temperature			Note 1
		TE-1421D Reactor Coolant System Narrow Range Temperature			Note 1
		TE-1422C Reactor Coolant System Narrow Range Temperature			Note 1
		TE-1431B Reactor Coolant System Narrow Range Temperature			Note 1
		TE-1431C Reactor Coolant System Narrow Range Temperature			Note 1
		TE-1431D Reactor Coolant System Narrow Range Temperature			Note 1
		TE-1432C Reactor Coolant System Narrow Range Temperature			Note 1
24A.		TE-2411B Reactor Coolant System Narrow Range Temperature			Note 1
24A.		TE-2411C Reactor Coolant System Narrow Range Temperature			Note 1
24A.		TE-2411D Reactor Coolant System Narrow Range Temperature			Note 1
24A.		TE-2412C Reactor Coolant System Narrow Range Temperature			Note 1
24A.		TE-2421B Reactor Coolant System Narrow Range Temperature			Note 1
24A.		TE-2421C Reactor Coolant System Narrow Range Temperature			Note 1
24A.		TE-2421D Reactor Coolant System Narrow Range Temperature			Note 1
24A.		TE-2422C Reactor Coolant System Narrow Range Temperature			Note 1
24A.		TE-2431B Reactor Coolant System Narrow Range Temperature			Note 1
24A.		TE-2431C Reactor Coolant System Narrow Range Temperature			Note 1
24A.		TE-2431D Reactor Coolant System Narrow Range Temperature			Note 1
24A.		TE-2432C Reactor Coolant System Narrow Range Temperature			Note 1
31B.		MINCO TEMPERATURE ELEMENTS	I.A	NONE	
		TE-1313 Reactor Vessel Level Temperature Compensation			Qualified
		TE-1314 Reactor Vessel Level Temperature Compensation			Qualified
		TE-1315 Reactor Vessel Level Temperature Compensation			Qualified
		TE-1316 Reactor Vessel Level Temperature Compensation			Qualified
		TE-1317 Reactor Vessel Level Temperature Compensation			Qualified
		TE-1318 Reactor Vessel Level Temperature Compensation			Qualified
		TE-1319 Reactor Vessel Level Temperature Compensation			Qualified
		TE-1323 Reactor Vessel Level Temperature Compensation			Qualified
		TE-1324 Reactor Vessel Level Temperature Compensation			Qualified
		TE-1325 Reactor Vessel Level Temperature Compensation			Qualified
		TE-1326 Reactor Vessel Level Temperature Compensation			Qualified
		TE-1327 Reactor Vessel Level Temperature Compensation			Qualified
		TE-1328 Reactor Vessel Level Temperature Compensation			Qualified
		TE-1329 Reactor Vessel Level Temperature Compensation			Qualified
24B.		TE-2313 Reactor Vessel Level Temperature Compensation			Qualified
24B.		TE-2314 Reactor Vessel Level Temperature Compensation			Qualified
24B.		TE-2315 Reactor Vessel Level Temperature Compensation			Qualified

"STATUS OF ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT
AT SURRY POWER STATION FOR UNITS 1 & 2"

TECHNICAL EVALUATION REPORT ITEM NUMBER		DESCRIPTION	NRC CATEGORY	DEFICIENCY	RESOLUTION
U1	U2				
31B.		MINCO TEMPERATURE ELEMENTS	I.A	NONE	
24B.	TE-2316	Reactor Vessel Level Temperature Compensation			Qualified
24B.	TE-2317	Reactor Vessel Level Temperature Compensation			Qualified
24B.	TE-2318	Reactor Vessel Level Temperature Compensation			Qualified
24B.	TE-2319	Reactor Vessel Level Temperature Compensation			Qualified
24B.	TE-2323	Reactor Vessel Level Temperature Compensation			Qualified
24B.	TE-2324	Reactor Vessel Level Temperature Compensation			Qualified
24B.	TE-2325	Reactor Vessel Level Temperature Compensation			Qualified
24B.	TE-2326	Reactor Vessel Level Temperature Compensation			Qualified
24B.	TE-2327	Reactor Vessel Level Temperature Compensation			Qualified
24B.	TE-2328	Reactor Vessel Level Temperature Compensation			Qualified
24B.	TE-2329	Reactor Vessel Level Temperature Compensation			Qualified
31C.		E-THERMO TRINITY TEMPERATURE ELEMENTS	I.B	DOCUMENTATION	
	TE-LM-100-19	Containment Atmosphere Temperature	Replaced with Conax RTD		Qualified
	TE-LM-100-20	Containment Atmosphere Temperature	Replaced with Conax RTD		Qualified
24C.	TE-LM-200-19	Containment Atmosphere Temperature			Note 2
24C.	TE-LM-200-20	Containment Atmosphere Temperature			Note 2

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TECHNICAL EVALUATION REPORT ITEM NUMBER		DESCRIPTION	NRC CATEGORY	DEFICIENCY	RESOLUTION
U1	U2				
7.		CONAX POWER PENETRATION	II.C	AGING QUALIFIED LIFE	
		Type-IC Supplies Power To Safety System	Documentation	Added to File	Qualified
		Type-ID Supplies Power To Safety System	Documentation	Added to File	Qualified
		Type-IIA Supplies Power To Safety System	Documentation	Added to File	Qualified
		Type-IIB Supplies Power To Safety System	Documentation	Added to File	Qualified
		Type-IIC Supplies Power To Safety System	Documentation	Added to File	Qualified
11.		Type IC Supplies Power to Safety System	Documentation	Added to File	Qualified
11.		Type ID Supplies Power to Safety System	Documentation	Added to File	Qualified
11.		Type IIA Supplies Power to Safety System	Documentation	Added to File	Qualified
11.		Type IIB Supplies Power to Safety System	Documentation	Added to File	Qualified
11.		Type IIC Supplies Power to Safety System	Documentation	Added to File	Qualified
8.		AMPHENOL INSTRUMENT PENETRATION	II.A	SIMILARITY AGING QUALIFIED LIFE TIME DURATION PROFILE ENVELOPED SPRAY RADIATION	
		Type-IA Electrical Penetration	Documentation	Submitted 03/09/83	Qualified
		Type-IB Electrical Penetration	Documentation	Submitted 03/09/83	Qualified
		Type-IC Electrical Penetration	Documentation	Submitted 03/09/83	Qualified
8.		Type IC Supplies Power to Safety System	Documentation	Submitted 03/09/83	Qualified
9.		Type IB Supplies Power to Safety System	Documentation	Submitted 03/09/83	Qualified
10.		Type IA Electrical Continuity Through Containment Wall	Documentation	Submitted 03/09/83	Qualified
9.		AMPHENOL TRIAXIAL PENETRATION	II.A	SIMILARITY AGING QUALIFIED LIFE TIME DURATION PROFILE ENVELOPED SPRAY RADIATION	
9.		Type III Supplies Power to Safety System	Documentation	Submitted 03/09/83	Qualified
7.		Type III Supplies Power to Safety System	Documentation	Submitted 03/09/83	Qualified

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AT SURRY POWER STATION FOR UNITS 1 & 2"

TECHNICAL EVALUATION REPORT ITEM NUMBER		DESCRIPTION	NRC CATEGORY	DEFICIENCY	RESOLUTION
U1	U2				
10.		AMPHENOL THERMOCOUPLE PENETRATION	II.A	SIMILARITY AGING QUALIFIED LIFE TIME DURATION PROFILE ENVELOPED SPRAY RADIATION	
	Type IV	Supplies Power To Safety System	Documentation	Submitted 03/09/83	Qualified
		AMPHENOL THERMOCOUPLE PENETRATION	II.A	DOCUMENTATION SIMILIARITY	
30.	Type-IV	Supplies Power to Safety System	Documentation	Submitted 03/09/83	Qualified
21.		BURNDY TERMINAL BLOCKS	I.B	DOCUMENTATION	
	TB-264	Valve Position Indication and Control	Terminal Blocks Removed		Deleted
22.	TB-270	Valve Position Indication and Control	Terminal Blocks Removed		Deleted
22.		BUCHANAN TERMINAL BLOCKS	I.B	DOCUMENTATION SIMILARITY	
	TB-263	Valve Position Indication and Control Model Type B	Additional Documentation in QDR		Qualified
		BUCHANAN TERMINAL BLOCKS	I.B	DOCUMENTATION	
21.	TB-269	Valve Position Indication and Control Model Type B	Additional Documentation in QDR		Qualified

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TECHNICAL EVALUATION REPORT ITEM NUMBER		DESCRIPTION	NRC CATEGORY	DEFICIENCY	RESOLUTION
U1	U2				
23.		TERMINAL BLOCKS	I.B	DOCUMENTATION	
		Type NQ Buchanan Terminal Block (Phenolic)		Ident. of Compoments QDR Completed	Qualified
20.		Type NQ Buchanan Terminal Block (Phenolic)		Ident. of Compoments QDR Completed	Qualified
26.		RAYCHEM SPLICING MATERIAL	I.B	DOCUMENTATION	
		WCSFN Splicing Material		Identification Components Completed	Qualified
		HVT/HVMC Splicing Material		Identification Components Completed	Qualified
108.		WCSFN Splicing Material		Identification Components Completed	Qualified
108.		HVT/HVMC Splicing Material		Identification Components Completed	Qualified

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AT SURRY POWER STATION FOR UNITS 1 & 2"

TECHNICAL EVALUATION REPORT ITEM NUMBER		DESCRIPTION	NRC CATEGORY	DEFICIENCY	RESOLUTION
U1	U2				
32.		CERRO WIRE 600 VOLT CONTROL CABLES	II.A	DOCUMENTATION SIMILARITY	
		NAS-120 Supplies Power To Safety System	Documentation Submitted 03/09/83		Qualified
		NAS-3187 Supplies Power To Safety System	Documentation Submitted 03/09/83		Qualified
46.		NAS-3187 Supplies Power To Safety System	Documentation Submitted 03/09/83		Qualified
46.		NAS-120 Supplies Power To Safety System	Documentation Submitted 03/09/83		Qualified
33.		BOSTON INSULATED WIRE 300 VOLT INSTRUMENT CABLES	IV	NONE	
		NAS-128 Supplies Signal	Deleted 08/24/81 Submittal		Deleted
45.		NAS-128 Supplies Signal	Deleted 08/24/81 Submittal		Deleted
34.		CERRO WIRE 300 VOLT INSTRUMENT CABLES	II.A	DOCUMENTATION SIMILARITY	
		NAS-430 Supply Signal	Documentation Submitted 03/09/83		Qualified
44.		NAS-430 Supply Signal	Documentation Submitted 03/09/83		Qualified
35.		RAYCHEM 300 VOLT INSTRUMENT CABLES	I.A	NONE	
		NAS-3190 300 Volt Instrument Cable			Qualified
43.		NAS-3190 300 Volt Instrument Cable			Qualified
36.		CERRO WIRE 1000 VOLT CONTROL CABLES	II.A	DOCUMENTATION SIMILARITY	
		NUS-325 Supplies Power to Safety System	Documentation Submitted 03/09/83		Qualified
		NUS-381C Supplies Power to Safety System			Qualified
		NUS-381E Supplies Power to Safety System			Qualified

"STATUS OF ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT
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U1 U2		DESCRIPTION	NRC CATEGORY	DEFICIENCY	RESOLUTION
36.		NUS-362 Supplies Power to Safety System		Documentation Submitted 03/09/83	Qualified
	73.	NUS-325 1000 Volt Control Cable		Documentation Submitted 03/09/83	Qualified
	73.	NUS-381C 1000 Volt Control Cable		Documentation Submitted 03/09/83	Qualified
	73.	NUS-381E 1000 Volt Control Cable		Documentation Submitted 03/09/83	Qualified
	73.	NUS-362 1000 Volt Control Cable		Documentation Submitted 03/09/83	Qualified
37.		GENERAL ELECTRIC 1000 VOLT CONTROL CABLES	III.A	NONE	
		NUS-381 1000 Volt Control Cable		Deleted R-4 dated 08/24/81 - 79-01B	Deleted
	42.	NUS-381 1000 Volt Control Cable		Deleted R-4 dated 08/24/81 - 79-01B	Deleted
38.		CONTINENTAL WIRE 1000 VOLT CONTROL CABLES	II.A	DOCUMENTATION SIMILARITY	
		NUS-420 Supply Power to Safety System		Documentation Submitted 03/09/83	Qualified
		CONTINENTAL WIRE 1000 VOLT CONTROL CABLES	I.A	DOCUMENTATION SIMILARITY	
	41.	NUS-420 1000 Volt Control Cable		Documentation Submitted 03/09/83	Qualified
39.		OKONITE 1000 VOLT CONTROL CABLES	I.A	NONE	
		NUS-410 1000 Volt Control Cable			Qualified
		NUS-381B 1000 Volt Control Cable			Qualified
	40.	NUS-410 1000 Volt Control Cable			Qualified
	40.	NUS-381B 1000 Volt Control Cable			Qualified

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TECHNICAL EVALUATION REPORT ITEM NUMBER		DESCRIPTION	NRC CATEGORY	DEFICIENCY	RESOLUTION
U1	U2				
40.		KAISER 600 VOLT POWER CABLES	III.A	NONE	
		NUS-225 Supply Power to Safety System	Deleted R-4 dated 8/24/81 - 79-01B		Deleted
		NUS-365A Supply Power to Safety System	Deleted R-4 dated 8/24/81 - 79-01B		Deleted
107.		NUS-225 600 Volt Power Cable	Deleted R-4 dated 8/24/81 - 79-01B		Deleted
41.		OKONITE 600 VOLT POWER CABLES	II.A	DOCUMENTATION	
		NUS-365B Supply Power to Safety System	Documentation Submitted 03/09/83		Qualified
		NUS-365C Supply Power to Safety System	Documentation Submitted 03/09/83		Qualified
		NUS-365D Supply Power to Safety System	Documentation Submitted 03/09/83		Qualified
		NUS-374 Supply Power to Safety System	Documentation Submitted 03/09/83		Qualified
		OKONITE 600 VOLT POWER CABLES	I.A	NONE	
37.		NUS-365B 600 Volt Power Cable	Documentation Submitted 03/09/83		Qualified
37.		NUS-365C 600 Volt Power Cable	Documentation Submitted 03/09/83		Qualified
37.		NUS-365D 600 Volt Power Cable	Documentation Submitted 03/09/83		Qualified
37.		NUS-374 600 Volt Aluminum Power Cable	Documentation Submitted 03/09/83		Qualified
42.		COLLYER INSULATED WIRE 600 VOLT POWER CABLES	II.A	DOCUMENTATION SIMILARITY	
		NUS-365E Supply Power to Safety System	Deleted Submittal Dated 03/09/83		Deleted
39.		NUS-365E 600 Volt Power Cable	Deleted Submittal Dated 03/09/83		Deleted

"STATUS OF ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT
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TECHNICAL EVALUATION REPORT ITEM NUMBER		DESCRIPTION	NRC CATEGORY	DEFICIENCY	RESOLUTION
U1	U2				
43.		ANACONDA WIRE 600 VOLT POWER CABLES	I.A	NONE	
		NUS-365F Supply Power to Safety System			Qualified
38.		NUS-365F 600 Volt Power Cable			Qualified
44.		OKONITE 600 VOLT POWER CABLES	I.A	NONE	
		NAS-116A Supply Power to Safety System			Qualified
		NAS-3185 Supply Power to Safety System			Qualified
37.		NAS-116A 600 Volt Power Cable			Qualified
37.		NAS-3185 600 Volt Power Cable			Qualified
45.		CONTINENTAL WIRE 600 VOLT INSTRUMENT CABLES	I.A	NONE	
		NUS-341 600 Volt Instrument Cable			Qualified
		NUS-411 600 Volt Instrument Cable			Qualified
		NUS-341A 600 Volt Instrument Cable			Qualified
36.		NUS-341 600 Volt Instrument Cable			Qualified
36.		NUS-411 600 Volt Instrument Cable			Qualified
36.		NUS-341A 600 Volt Instrument Cable			Qualified
46.		CONTINENTAL WIRE HIGH TEMPERATURE CABLES	II.A	AGING SPRAY RADIATION	
		NUS-326 Supply Power to Safety System			Qualified
35.		NUS-326 Supply Power to Safety System	Documentation Submitted 03/09/83 Documentation Submitted 03/09/83		Qualified
47.		COLLYER INSULATED WIRE 5000 VOLT POWER CABLES	II.A	DOCUMENTATION SIMILARITY	
		NUS-364 5000 VOLT POWER CABLE			Deleted
34.		NUS-364 5000 VOLT POWER CABLE	Deleted Submittal dated 03/09/83 Deleted Submittal dated 03/09/83		Deleted

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AT SURRY POWER STATION FOR UNITS 1 & 2"

TECHNICAL EVALUATION REPORT ITEM NUMBER		DESCRIPTION	NRC CATEGORY	DEFICIENCY	RESOLUTION
U1	U2				
48.		OKONITE 5000 VOLT POWER CABLES	I.A	NONE	
		NUS-364A Supply Power to Safety System			Qualified
33.		NUS-364A 5000 Volt Power Cable			Qualified
49.		KAISER 5000 VOLT POWER CABLES	III.A	NONE	
		NUS-217 Supply Power to Safety System	Deleted R-4 dated 8/24/81 - 79-01B		Deleted
32.		NUS-217 5000 Volt Power Cable	Deleted R-4 dated 8/24/81 - 79-01B		Deleted
110.		ENDEVCO HARDLINE COAXIAL CABLES	I.B	NONE	
		Low Noise Cable Pressure Safety Valve Position			Note 2
122.		Low Noise Cable Pressure Safety Valve Position			Note 2
110A		CONAX SEALING GLANDS	I.A	NONE	
		N-11000 Series Electric Conductor Seal Assembly (Inside Containment)			Qualified
		PL-Series Electric Conductor Seal Assembly (Outside Containment)			Qualified
100A		CONAX SEALING GLANDS			
		N-11000 Series Electric Conductor Seal Assembly (Inside Containment)			Qualified
		PL-Series Electric Conductor Seal Assembly (Outside Containment)			Qualified

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U1 U2

28.	BUFFALO FORGE DAMPERS	III.B	NONE	
	Damper-3A Damper For Charcoal Filtration System	Deleted 08/24/81 Submittal		Deleted
	Damper-3B Damper For Charcoal Filtration System	Deleted 08/24/81 Submittal		Deleted
	RCS INC.	II.A	DOCUMENTATION	
26.	DAMPER 3A Damper for Charcoal Filtration System	Deleted 08/24/81 Submittal		Deleted
26.	DAMPER 3B Damper for Charcoal Filtration System	Deleted 08/24/81 Submittal		Deleted
50.	GENERAL ELECTRIC PUMP MOTORS	II.C	AGING QUALIFIED LIFE	
	RS-P-1A Recirculation Spray Pump Motor including Lubricant Mobil DTE 797 and Grease Texaco Regal AFB	Additional Documentation into QDR		Qualified
	RS-P-1B Recirculation Spray Pump Motor including Lubricant Mobil DTE 797 and Grease Texaco Regal AFB	Additional Documentation into QDR		Qualified
56.	RS-P-1A Recirculation Spray Pump Motor including Lubricant Mobil DTE 797 and Grease Texaco Regal AFB	Additional Documentation into QDR		Qualified
56.	RS-P-1B Recirculation Spray Pump Motor including Lubricant Mobile DTE 797 and Grease Texaco Regal AFB	Additional Documentation into QDR		Qualified

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TECHNICAL EVALUATION REPORT ITEM NUMBER		DESCRIPTION	NRC CATEGORY	DEFICIENCY	RESOLUTION
U1	U2				
51.		WESTINGHOUSE PUMP MOTORS	II.A	SIMILARITY AGING QUALIFIED LIFE AGING DEGRADATION	
	SI-P-1A	Low Head Safety Injection Pump Motors including Lubricant Exxon Terrestic 46	Documentation Submitted 03/09/83		Qualified
	SI-P-1B	Low Head Safety Injection Pump Motors including Lubricant Exxon Terrestic 46	Documentation Submitted 03/09/83		Qualified
		WESTINGHOUSE PUMP MOTORS	II.A	SIMILARITY AGING QUALIFIED LIFE AGING DEGRADATION AGING SIMILIARITY	
50.	SI-P-1A	Low Head Safety Injection Pump Motor including Lubricant Exxon Terrestic 46	Documentation Submitted 03/09/83		Qualified
50.	SI-P-1B	Low Head Safety Injection Pump Motor including Lubricant Exxon Terrestic 46	Documentation Submitted 03/09/83		Qualified
52.		GENERAL ELECTRIC PUMP MOTORS	I.A	NONE	
	RS-P-2A	Recirculation Spray Pump Motor including Lubricant Mobil DTE 797 and Grease Chevron SRI 2			Qualified
	RS-P-2B	Recirculation Spray Pump Motor including Lubricant Mobil DTE 797 and Grease Chevron SRI 2			Qualified
		GENERAL ELECTRIC PUMP MOTORS	II.A	DOCUMENTATION	
51.	RS-P-2A	Recirculation Spray Pump Motor including Lubricant Mobil DTE 797 and Grease Chevron SRI 2	Documentation Submitted 03/09/83		Qualified
51.	RS-P-2B	Recirculation Spray Pump Motor including Lubricant Mobil DTE 797 and Grease Chevron SRI 2	Documentation Submitted 03/09/83		Qualified

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TECHNICAL EVALUATION REPORT ITEM NUMBER		DESCRIPTION	NRC CATEGORY	DEFICIENCY	RESOLUTION
U1	U2				
53.		GENERAL ELECTRIC PUMP MOTORS	I.B	DOCUMENTATION	
		SW-P-5A Service Water Return From Recirculation Spray Heat Exchanger Radiation Monitor	Replaced	Pump Motors	Qualified
		SW-P-5B Service Water Return From Recirculation Spray Heat Exchanger Radiation Monitor	Replaced	Pump Motors	Qualified
		SW-P-5C Service Water Return From Recirculation Spray Heat Exchanger Radiation Monitor	Replaced	Pump Motors	Qualified
		SW-P-5D Service Water Return From Recirculation Spray Heat Exchanger Radiation Monitor	Replaced	Pump Motors	Qualified
47.		SW-P-5A Service Water Return from Recirculation Spray Heat Exchanger Radiation Monitor	Replaced	Pump Motors	Qualified
47.		SW-P-5B Service Water Return from Recirculation Spray Heat Exchanger Radiation Monitor	Replaced	Pump Motors	Qualified
47.		SW-P-5C Service Water Return from Recirculation Spray Heat Exchanger Radiation Monitor	Replaced	Pump Motors	Qualified
47.		SW-P-5D Service Water Return from Recirculation Spray Heat Exchanger Radiation Monitor	Replaced	Pump Motors	Qualified
54.		WESTINGHOUSE PUMP MOTORS	III.A	NONE	
		FW-P-3A Auxiliary Feedwater Pump Motor	Qualified Backup Available		Qualified
		FW-P-3B Auxiliary Feedwater Pump Motor	Qualified Backup Available		Qualified
58.		FW-P-3A Auxiliary Feedwater Pump Motor	Qualified Backup Available		Qualified
58.		FW-P-3B Auxiliary Feedwater Pump Motor	Qualified Backup Available		Qualified
56.		SIEMENS-ALLIS CENTRAL EXHAUST FAN MOTORS	III.A	NONE	
		VS-F-58A Auxiliary Building Control Area Exhaust Fan	Deleted 8/24/81 Submittal		Deleted
		VS-F-58B Auxiliary Building Control Area Exhaust Fan	Deleted 8/24/81 Submittal		Deleted
57.		VS-F-58A Auxiliary Building Control Area Exhaust Fan	Deleted 8/24/81 Submittal		Deleted
57.		VS-F-58B Auxiliary Building Control Area Exhaust Fan	Deleted 8/24/81 Submittal		Deleted

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TECHNICAL EVALUATION REPORT ITEM NUMBER		DESCRIPTION	NRC CATEGORY	DEFICIENCY	RESOLUTION
U1	U2				
57.		WESTINGHOUSE PUMP MOTORS	II.A	SIMILARITY AGING QUALIFIED LIFE AGING SIMULATION TIME DURATION	
		CH-P-1A High Head Safety Injection/Normal Charging including Lubricant-Exxon Terrestrial 46		Documentation Submitted 03/09/83	Qualified
		CH-P-1B High Head Safety Injection/Normal Charging including Lubricant-Exxon Terrestrial 46		Documentation Submitted 03/09/83	Qualified
		CH-P-1C High Head Safety Injection/Normal Charging including Lubricant-Exxon Terrestrial 46		Documentation Submitted 03/09/83	Qualified
		WESTINGHOUSE PUMP MOTORS	II.A	SIMILARITY AGING QUALIFIED LIFE TIME DURATION	
62.		CH-P-1A High Head Safety Injection/Normal Charging Including Lubricant Exxon Terrestrial 46		Documentation Submitted 03/09/83	Qualified
62.		CH-P-1B High Head Safety Injection/Normal Charging Including Lubricant Exxon Terrestrial 46		Documentation Submitted 03/09/83	Qualified
62.		CH-P-1C High Head Safety Injection/Normal Charging Including Lubricant Exxon Terrestrial 46		Documentation Submitted 03/09/83	Qualified
58.		GENERAL ELECTRIC PUMP MOTORS	I.B	DOCUMENTATION	
		CC-P-2A Charging Pump Cooling		Extension Requested letter S/N 549	Unqualified
		CC-P-2B Charging Pump Cooling		Extension Requested letter S/N 549	Unqualified
60.		CC-P-2B Charging Pump Cooling		Extension Requested letter S/N 549	Unqualified
61.		CC-P-2A Charging Pump Cooling		Extension Requested letter S/N 549	Unqualified
59.		WESTINGHOUSE PUMP MOTORS	III.A	NONE	
		CV-P-1A Containment Vacuum Pump		Deleted R-4 dated 8/24/81 - 79-01B	Deleted
		CV-P-1B Containment Vacuum Pump		Deleted R-4 dated 8/24/81 - 79-01B	Deleted
59.		CV-P-1A Containment Vacuum Pump		Deleted R-4 dated 8/24/81 - 79-01B	Deleted
59.		CV-P-1B Containment Vacuum Pump		Deleted R-4 dated 8/24/81 - 79-01B	Deleted

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U1	U2	DESCRIPTION	NRC CATEGORY	DEFICIENCY	RESOLUTION
60.		LIMITORQUE MOTOR OPERATED VALVES	I.A	NONE	
		MOV-1842 Boric Acid Injection Tank Outlet Valve			Qualified
111.		MOV-2842 Boric Acid Injection Tank Outlet Valve			Qualified
61.		LIMITORQUE MOTOR OPERATED VALVES	I.B	RADIATION	
		MOV-1115B Charging Pump Suction From Refueling Water Storage Tank	Removed	Unqualified Brake Assemblies	Qualified
		MOV-1115D Charging Pump Suction From Refueling Water Storage Tank	Removed	Unqualified Brake Assemblies	Qualified
		LIMITORQUE MOTOR OPERATED VALVES	I.A	RADIATION	
76.		MOV-2115B Charging Pump Suction from Refueling Water Storage Tank	Removed	Unqualified Brake Assemblies	Qualified
76.		MOV-2115D Charging Pump Suction from Refueling Water Storage Tank	Removed	Unqualified Brake Assemblies	Qualified
62.		LIMITORQUE MOTOR OPERATED VALVES	I.B	RADIATION	
		MOV-1864A Low Head Safety Injection Discharge Valve	Removed	Unqualified Brake Assemblies	Qualified
		MOV-1864B Low Head Safety Injection Discharge Valve	Removed	Unqualified Brake Assemblies	Qualified
66.		MOV-2864A Low Head Safety Injection Discharge Valve	Removed	Unqualified Brake Assemblies	Qualified
66.		MOV-2864B Low Head Safety Injection Discharge Valve	Removed	Unqualified Brake Assemblies	Qualified
63.		LIMITORQUE MOTOR OPERATED VALVES	I.B	RADIATION	
		MOV-1890A Low Head Safety Injection Stop Valve	Removed	Unqualified Brake Assemblies	Qualified
		MOV-1890B Low Head Safety Injection Stop Valve	Removed	Unqualified Brake Assemblies	Qualified
		MOV-1890C Low Head Safety Injection Stop Valve	Removed	Unqualified Brake Assemblies	Qualified
66.		MOV-2890A Low Head Safety Injection Stop Valve	Removed	Unqualified Brake Assemblies	Qualified
66.		MOV-2890B Low Head Safety Injection Stop Valve	Removed	Unqualified Brake Assemblies	Qualified
66.		MOV-2890C Low Head Safety Injection Stop Valve	Removed	Unqualified Brake Assemblies	Qualified

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AT SURRY POWER STATION FOR UNITS 1 & 2"

TECHNICAL EVALUATION REPORT ITEM NUMBER		DESCRIPTION	NRC CATEGORY	DEFICIENCY	RESOLUTION
U1	U2				
64.		LIMITORQUE MOTOR OPERATED VALVES	I.A	NONE	
		MOV-1275A Charging Pump Recirculation to Refueling Water Storage Tank			Qualified
114.		MOV-2275A Charging Pump Recirculation to Refueling Water Storage Tank			Qualified
65.		LIMITORQUE MOTOR OPERATED VALVES	III.A	NONE	
		MOV-1865A Accumulator Isolation	Deleted R-4 dated 08/24/81 - 79-01B		Deleted
		MOV-1865B Accumulator Isolation	Deleted R-4 dated 08/24/81 - 79-01B		Deleted
		MOV-1865C Accumulator Isolation	Deleted R-4 dated 08/24/81 - 79-01B		Deleted
70.		MOV-2865A Accumulator Isolation	Deleted R-4 dated 08/24/81 - 79-01B		Deleted
70.		MOV-2865B Accumulator Isolation	Deleted R-4 dated 08/24/81 - 79-01B		Deleted
70.		MOV-2865C Accumulator Isolation	Deleted R-4 dated 08/24/81 - 79-01B		Deleted
66.		LIMITORQUE MOTOR OPERATED VALVES	I.A	NONE	
		MOV-1862B Low Head Safety Injection Suction			Qualified
		MOV-1862A Low Head Safety Injection Suction			Qualified
		MOV-1885A Low Head Safety Injection Pump Recirculation			Qualified
		MOV-1885B Low Head Safety Injection Pump Recirculation			Qualified
		MOV-1885C Low Head Safety Injection Pump Recirculation			Qualified
		MOV-RS-155A Recirculation Spray Pump Suction			Qualified
		MOV-RS-155B Recirculation Spray Pump Suction			Qualified
		MOV-RS-156A Recirculation Spray Pump Discharge			Qualified
		MOV-RS-156B Recirculation Spray Pump Discharge			Qualified
68.		MOV-2885A Low Head Safety Injection Pump Recirculation			Qualified
68.		MOV-2885B Low Head Safety Injection Pump Recirculation			Qualified
68.		MOV-2885C Low Head Safety Injection Pump Recirculation			Qualified
71.		MOV-RS-256A Recirculation Spray Pump Discharge			Qualified
71.		MOV-RS-256B Recirculation Spray Pump Discharge			Qualified
109.		MOV-2862B Low Head Safety Injection Suction			Qualified
110.		MOV-RS-255A Recirculation Spray Pump Suction			Qualified
110.		MOV-RS-255B Recirculation Spray Pump Suction			Qualified
110.		MOV-2862A Low Head Safety Injection Suction			Qualified

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		<u>DESCRIPTION</u>	<u>NRC CATEGORY</u>	<u>DEFICIENCY</u>	<u>RESOLUTION</u>
U1	U2				
67.		LIMITORQUE MOTOR OPERATED VALVES	I.A	NONE	
		MOV-1869B Boron Injection Tank Bypass			Qualified
		MOV-1869A Safety Injection to Reactor Hot Leg Isolation			Qualified
		MOV-1867D Boron Injection Tank Outlet Isolation			Qualified
		MOV-1867C Boron Acid Injection Tank Valve			Qualified
		MOV-1289A Charging to Regenerative Heat Exchanger Stop Valve			Qualified
		MOV-1289B Charging Header Isolation Valve			Qualified
		MOV-1373 Charging Pump Recirculation to Refueling Water Storage Tank			Qualified
67.		MOV-2869B Boron Injection Tank Bypass			Qualified
111.		MOV-2867C Boric Acid Injection Tank Outlet Valve			Qualified
111.		MOV-2867D Boric Acid Injection Tank Outlet Valve			Qualified
111.		MOV-2869A Safety Injection to Reactor Hot Legs Isolation			Qualified
111.		MOV-2289B Charging Header Isolation Valve			Qualified
111.		MOV-2289A Charging to Regenerative Heat Exchanger Stop Valve			Qualified
111.		MOV-2373 Charging Pump Recirculation to Refueling Water Storage Tank			Qualified
68.		LIMITORQUE MOTOR OPERATED VALVES	I.B	RADIATION	
		MOV-1863A Low Head Safety Injection Discharge	Removed Unqualified Brake Assemblies		Qualified
		MOV-1863B Low Head Safety Injection Discharge	Removed Unqualified Brake Assemblies		Qualified
69.		MOV-2863A Low Head Safety Injection Discharge	Removed Unqualified Brake Assemblies		Qualified
69.		MOV-2863B Low Head Safety Injection Discharge	Removed Unqualified Brake Assemblies		Qualified
69.		LIMITORQUE MOTOR OPERATED VALVES	I.B	DOCUMENTATION	
		MOV-1535 Pressurizer Relief Block Valve	Replaced Unqualified Parts		Qualified
		MOV-1536 Pressurizer Relief Block Valve	Replaced Unqualified Parts		Qualified
112.		MOV-2535 Pressurizer Relief Block Valve	Replaced Unqualified Parts		Qualified
112.		MOV-2536 Pressurizer Relief Block Valve	Replaced Unqualified Parts		Qualified

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TECHNICAL EVALUATION REPORT ITEM NUMBER		DESCRIPTION	NRC CATEGORY	DEFICIENCY	RESOLUTION
U1	U2				
70.		LIMITORQUE MOTOR OPERATED VALVES	I.A	NONE	
		MOV-1115C Charging Pump Suction From Volume Control Tank			Qualified
		MOV-1115E Charging Pump Suction From Volume Control Tank			Qualified
		MOV-1275B Charging Pump Recirculation to Refueling Water Storage			Qualified
		MOV-1275C Charging Pump Recirculation to Refueling Water Storage			Qualified
115.		MOV-2275B Charging Pump Recirculation to Refueling Water Storage Tank			Qualified
115.		MOV-2275C Charging Pump Recirculation to Refueling Water Storage Tank			Qualified
115.		MOV-2115C Charging Pump Suction from Volume Control Tank			Qualified
115.		MOV-2115E Charging Pump Suction from Volume Control Tank			Qualified
71.		LIMITORQUE MOTOR OPERATED VALVES	I.A	NONE	
		MOV-CS-102B Chemical Addition Tank Isolation			Qualified
		MOV-CS-102A Chemical Addition Tank Isolation			Qualified
		MOV-CS-101D Spray Pump Discharge Isolation			Qualified
		MOV-CS-101A Spray Pump Discharge Isolation			Qualified
		MOV-CS-101B Spray Pump Discharge Isolation			Qualified
		MOV-CS-101C Spray Pump Discharge Isolation			Qualified
74.		MOV-CS-202A Chemical Addition Tank Isolation			Qualified
74.		MOV-CS-202B Chemical Addition Tank Isolation			Qualified
75.		MOV-CS-201A Spray Pump Discharge Isolation			Qualified
75.		MOV-CS-201B Spray Pump Discharge Isolation			Qualified
75.		MOV-CS-201C Spray Pump Discharge Isolation			Qualified
75A.		MOV-CS-201D Spray Pump Discharge Isolation			Qualified
72.		LIMITORQUE MOTOR OPERATED VALVES	I.A	NONE	
		MOV-SW-105C Recirculation Spray Heat Exchanger			Qualified
		MOV-SW-105D Recirculation Spray Heat Exchanger			Qualified
		MOV-SW-105B Service Water Outlet Recirculation Spray Heat Exchanger			Qualified
		MOV-SW-105A Recirculation Spray Heat Exchanger Service Water Return			Qualified
		MOV-SW-104D Recirculation Spray Heat Exchanger Service Water Supply			Qualified
		MOV-SW-104A Recirculation Spray Heat Exchanger Service Water Supply			Qualified
		MOV-SW-104B Recirculation Spray Heat Exchanger Service Water Supply			Qualified
		MOV-SW-104C Recirculation Spray Heat Exchanger Service Water Supply			Qualified
64.		MOV-SW-204A Recirculation Spray Heat Exchanger Service Water Supply			Qualified
64.		MOV-SW-204B Recirculation Spray Heat Exchanger Service Water Supply			Qualified
64.		MOV-SW-204C Recirculation Spray Heat Exchanger Service Water Supply			Qualified
64.		MOV-SW-204D Recirculation Spray Heat Exchanger Service Water Supply			Qualified
64.		MOV-SW-205A Recirculation Spray Heat Exchanger Service Water Return			Qualified
64.		MOV-SW-205B Service Water Outlet Recirculation Spray Heat Exchanger			Qualified
64.		MOV-SW-205C Recirculation Spray Heat Exchanger			Qualified
64.		MOV-SW-205D Recirculation Spray Heat Exchanger			Qualified

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TECHNICAL EVALUATION REPORT ITEM NUMBER		DESCRIPTION	NRC CATEGORY	DEFICIENCY	RESOLUTION
U1	U2				
73.		LIMITORQUE MOTOR OPERATED VALVES	I.B	DOCUMENTATION	
		MOV-FW-151A Auxiliary Feedwater	Replaced	Unqualified Parts	Qualified
		MOV-FW-151B Auxiliary Feedwater	Replaced	Unqualified Parts	Qualified
		MOV-FW-151C Auxiliary Feedwater	Replaced	Unqualified Parts	Qualified
		MOV-FW-151D Auxiliary Feedwater	Replaced	Unqualified Parts	Qualified
		MOV-FW-151E Auxiliary Feedwater	Replaced	Unqualified Parts	Qualified
		MOV-FW-151F Auxiliary Feedwater	Replaced	Unqualified Parts	Qualified
113.		MOV-FW-251A Auxiliary Feedwater	Replaced	Unqualified Parts	Qualified
113.		MOV-FW-251B Auxiliary Feedwater	Replaced	Unqualified Parts	Qualified
113.		MOV-FW-251C Auxiliary Feedwater	Replaced	Unqualified Parts	Qualified
113.		MOV-FW-251D Auxiliary Feedwater	Replaced	Unqualified Parts	Qualified
113.		MOV-FW-251E Auxiliary Feedwater	Replaced	Unqualified Parts	Qualified
113.		MOV-FW-251F Auxiliary Feedwater	Replaced	Unqualified Parts	Qualified
74.		LIMITORQUE MOTOR OPERATED VALVES	I.A	NONE	
		MOV-1867B Boric Acid Injection Tank Inlet Valve			Qualified
		MOV-1381 Reactor Cooling Pump Seal Water Return			Qualified
77.		MOV-2381 Reactor Cooling Pump Seal Water Return			Qualified
111.		MOV-2867B Boric Acid Injection Tank Inlet Valve			Qualified
74A.		LIMITORQUE MOTOR OPERATED VALVES	I.A	NONE	
		MOV-1867A Boric Acid Injection Tank Inlet Valve			Qualified
111.		MOV-2867A Boric Acid Injection Tank Inlet Valve			Qualified
75.		LIMITORQUE MOTOR OPERATED VALVES	I.A	NONE	
		MOV-1860A Low Head Safety Injection Recirculation Valve			Qualified
		MOV-1885D Low Head Safety Injection Pump Recirculation			Qualified
		MOV-1860B Low Head Safety Injection Recirculation Valve			Qualified
110.		MOV-2860A Low Head Safety Injection Recirculation Valve			Qualified
110.		MOV-2860B Low Head Safety Injection Recirculation Valve			Qualified
110.		MOV-2885D Low Head Safety Injection Pump Recirculation			Qualified

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76.	ASCO SOLENOID OPERATED VALVES	I.B	DOCUMENTATION	
	SOV-1884A Boron Injection Tank Recirculation	Removed by Design Change		Deleted
	SOV-1884B Boron Injection Tank Recirculation	Removed by Design Change		Deleted
	SOV-1884C Boron Injection Tank Recirculation	Removed by Design Change		Deleted
88.	SOV-2884A Boron Injection Tank Recirculation	Removed by Design Change		Deleted
88.	SOV-2884B Boron Injection Tank Recirculation	Removed by Design Change		Deleted
88.	SOV-2884C Boron Injection Tank Recirculation	Removed by Design Change		Deleted
77.	ASCO SOLENOID OPERATED VALVES	III.A	NONE	
	SOV-1311 Pressurizer Auxiliary Spray Isolation	Deleted R-4 dated 08/24/81 - 70-01B		Deleted
105.	SOV-2311 Pressurizer Auxiliary Spray Isolation	Deleted R-4 dated 08/24/81 - 70-01B		Deleted
78.	ASCO SOLENOID OPERATED VALVES	I.B	DOCUMENTATION	
	SOV-CV-150A Containment Vacuum Pump Suction	Replaced with ASCO NP Series		Qualified
	SOV-CV-150C Containment Vacuum Pump Suction	Replaced with ASCO NP Series		Qualified
	SOV-RM-100C Radiation Monitoring Trip Valve	Replaced with ASCO NP Series		Qualified
	SOV-VG-109A Primary Drain Transfer Tank Vent	Replaced with ASCO NP Series		Qualified
	SOV-DG-108A Nitrogen Supply Line	Replaced with ASCO NP Series		Qualified
86.	SOV-VG-209A Primary Drain Transfer Tank Vent	Replaced with ASCO NP Series		Qualified
86.	SOV-RM-200C Radiation Monitoring Trip Valve	Replaced with ASCO NP Series		Qualified
91.	SOV-CV-250A Containment Vacuum Pump Suction	Replaced with ASCO NP Series		Qualified
92.	SOV-CV-250C Containment Vacuum Pump Suction	Replaced with ASCO NP Series		Qualified
91.	SOV-DG-208A Nitrogen Supply Line	Replaced with ASCO NP Series		Qualified

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U1	U2				
79.		ASCO SOLENOID OPERATED VALVES	I.B	DOCUMENTATION	
		SOV-DA-100B Reactor Containment Sump Pump Discharge		Replaced with ASCO NP Series	Qualified
		SOV-CC-110A Component Cooling Return from Containment Cooler Isolation		Replaced with ASCO NP Series	Qualified
		SOV-CC-110B Component Cooling Return from Containment Cooler Isolation		Replaced with ASCO NP Series	Qualified
		SOV-CC-110C Component Cooling Return from Containment Cooler Isolation		Replaced with ASCO NP Series	Qualified
85.		SOV-DA-200B Reactor Containment Sump Pump Discharge		Replaced with ASCO NP Series	Qualified
92.		SOV-CC-210A Component Cooling Return From Containment Cooler Isolation		Replaced with ASCO NP Series	Qualified
92.		SOV-CC-210B Component Cooling Return From Containment Cooler Isolation		Replaced with ASCO NP Series	Qualified
92.		SOV-CC-210C Component Cooling Return From Containment Cooler Isolation		Replaced with ASCO NP Series	Qualified
80.		ASCO SOLENOID OPERATED VALVES	I.B	NONE	
		SOV-SS-106A Primary Cooling Hot Leg Sample		Replaced by Valcor SOV-TV-SS-106A	Deleted
		SOV-SS-104A Pressurizer Relief Tank Vapor Space Sample		Replaced with ASCO NP Series	Qualified
82.		SOV-SS-204A Pressurizer Relief Tank Vapor Space Sample		Replaced with ASCO NP Series	Qualified
82.		SOV-SS-206A Primary Coolant Hot Leg Sample		Replaced by Valcor SOV-TV-SS-206A	Deleted
81.		LAWRENCE SOLENOID OPERATED VALVES	I.B	DOCUMENTATION	
		SOV-1455C-3 Pressurizer Power Operated Relief		Not Required for Hot Shutdown	Deleted
		SOV-1456-3 Pressurizer Power Operated Relief		Not Required for Hot Shutdown	Deleted
90.		SOV-2455C-3 Pressurizer Power Operated Relief		Not Required for Hot Shutdown	Deleted
90.		SOV-2456-3 Pressurizer Power Operated Relief		Not Required for Hot Shutdown	Deleted

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U1	U2				
82.		ASCO SOLENOID OPERATED VALVES	I.B	DOCUMENTATION	
		SOV-MS-101AA Main Steam Trip Valve	Replaced with ASCO NP Series		Qualified
		SOV-MS-101AB Main Steam Trip Valve	Replaced with ASCO NP Series		Qualified
		SOV-MS-101BA Main Steam Trip Valve	Replaced with ASCO NP Series		Qualified
		SOV-MS-101BB Main Steam Trip Valve	Replaced with ASCO NP Series		Qualified
		SOV-MS-101CA Main Steam Trip Valve	Replaced with ASCO NP Series		Qualified
		SOV-MS-101CB Main Steam Trip Valve	Replaced with ASCO NP Series		Qualified
93.		SOV-MS-201AA Main Steam Trip Valve	Replaced with ASCO NP Series		Qualified
93.		SOV-MS-201AB Main Steam Trip Valve	Replaced with ASCO NP Series		Qualified
93.		SOV-MS-201BA Main Steam Trip Valve	Replaced with ASCO NP Series		Qualified
93.		SOV-MS-201BB Main Steam Trip Valve	Replaced with ASCO NP Series		Qualified
94.		SOV-MS-201CA Main Steam Trip Valve	Replaced with ASCO NP Series		Qualified
95.		SOV-MS-201CB Main Steam Trip Valve	Replaced with ASCO NP Series		Qualified
83.		ASCO SOLENOID OPERATED VALVES	III.B	NONE	
		SOV-SI-102A2 Refueling Water Storage Tank Cross Connect	Deleted R-4 dated 08/29/83 - 79-01B		Deleted
		SOV-SI-102B2 Refueling Water Storage Tank Cross Connect	Deleted R-4 dated 08/29/83 - 79-01B		Deleted
87.		SOV-SI-202A2 Refueling Water Storage Tank Cross Connect	Deleted R-4 dated 08/29/83 - 79-01B		Deleted
87.		SOV-SI-202B2 Refueling Water Storage Tank Cross Connect	Deleted R-4 dated 08/29/83 - 79-01B		Deleted
84.		ASCO SOLENOID OPERATED VALVES	I.B	DOCUMENTATION	
		SOV-RM-100A Radiation Monitoring Trip Valve	Replaced with ASCO NP Series		Qualified
		SOV-1519A Primary Grade Water to Pressurizer Relief Tank	Replaced with ASCO NP Series		Qualified
92.		SOV-RM-200A Radiation Monitoring Trip Valve	Replaced with ASCO NP Series		Qualified
96.		SOV-2519A Primary Grade Water to Pressurizer Relief Tank	Replaced with ASCO NP Series		Qualified
85.		ASCO SOLENOID OPERATED VALVES	I.B	DOCUMENTATION	
		SOV-MS-110 Main Steam Line Drains to Condenser	Replaced with ASCO NP Series		Qualified
98.		SOV-MS-210 Main Steam Line Drains to Condenser	Replaced with ASCO NP Series		Qualified

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	DESCRIPTION	NRC CATEGORY	DEFICIENCY	RESOLUTION
U1 U2				
86.	ASCO SOLENOID OPERATED VALVES	II.C	QUALIFIED LIFE	
	SOV-1200A Chemical Volume Control System Isolation Valve for Letdown	Replaced with ASCO NP Series		Qualified
	SOV-1200B Chemical Volume Control System Isolation Valve for Letdown	Replaced with ASCO NP Series		Qualified
	SOV-1200C Chemical Volume Control System Isolation Valve for Letdown	Replaced with ASCO NP Series		Qualified
	SOV-1455C-1 Pressurizer Power Operated Relief	Replaced with ASCO NP Series		Qualified
	SOV-1455C-2 Pressurizer Power Operated Relief	Replaced with ASCO NP Series		Qualified
	SOV-1456-1 Pressurizer Power Operated Relief	Replaced with ASCO NP Series		Qualified
	SOV-1456-2 Pressurizer Power Operated Relief	Replaced with ASCO NP Series		Qualified
	ASCO SOLENOID OPERATED VALVES	I.B	DOCUMENTATION	
89.	SOV-2455C-1 Pressurizer Power Operated Relief	Replaced with ASCO NP Series		Qualified
89.	SOV-2455C-2 Pressurizer Power Operated Relief	Replaced with ASCO NP Series		Qualified
89.	SOV-2456-1 Pressurizer Power Operated Relief	Replaced with ASCO NP Series		Qualified
89.	SOV-2456-2 Pressurizer Power Operated Relief	Replaced with ASCO NP Series		Qualified
103.	SOV-2200A Chemical Volume Control System Isolation Valve for Letdown	Replaced with ASCO NP Series		Qualified
103.	SOV-2200B Chemical Volume Control System Isolation Valve for Letdown	Replaced with ASCO NP Series		Qualified
103.	SOV-2200C Chemical Volume Control System Isolation Valve for Letdown	Replaced with ASCO NP Series		Qualified
87.	ASCO SOLENOID OPERATED VALVES	I.B	DOCUMENTATION	
	SOV-DG-108B Primary Drain Transfer Pump	Replaced with ASCO NP Series		Qualified
	SOV-SS-106B Primary Coolant Hot Leg Sample	Replaced by Valcor SOV-TV-SS-106B		Deleted
	SOV-SS-104B Pressurizer Relief Tank Sample	Replaced with ASCO NP Series		Qualified
	SOV-SS-103 Residual Heat Removal Vapor Space Sample	Replaced by Valcor SOV-TV-SS-103A		Deleted
	SOV-SS-101B1 Pressurizer Vapor Space Sample	Replaced with ASCO NP Series		Qualified
	SOV-SS-100B1 Pressurizer Liquid Space Sample	Replaced with ASCO NP Series		Qualified
83.	SOV-SS-200B1 Pressurizer Liquid Space Sample	Replaced with ASCO NP Series		Qualified
83.	SOV-SS-203 Residual Heat Removal Sample	Replaced by Valcor SOV-TV-SS-203A		Deleted
83.	SOV-SS-204B Pressurizer Relief Tank Vapor Space Sample	Replaced with ASCO NP Series		Qualified
83.	SOV-SS-206B Primary Coolant Hot Leg Sample	Replaced by Valcor SOV-TV-SS-206B		Deleted
84.	SOV-SS-201B1 Pressurizer Vapor Space Sample	Replaced with ASCO NP Series		Qualified
92.	SOV-DG-208B Primary Drain Transfer Pump	Replaced with ASCO NP Series		Qualified

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AT SURRY POWER STATION FOR UNITS 1 & 2"

TECHNICAL EVALUATION REPORT ITEM NUMBER		DESCRIPTION	NRC CATEGORY	DEFICIENCY	RESOLUTION
U1	U2				
88.		ASCO SOLENOID OPERATED VALVES	I.B	NONE	
		SOV-DA-100A Reactor Containment Pump Discharge	Replaced with ASCO NP Series		Qualified
86.		SOV-DA-200A Reactor Containment Pump Discharge	Replaced with ASCO NP Series		Qualified
89.		ASCO SOLENOID OPERATED VALVES	I.B	DOCUMENTATION	
		SOV-LM-101B Containment Leakage Monitoring	Removed from Plant by Design Change		Deleted
99.		SOV-LM-201B Containment Leakage Monitoring	Removed from Plant by Design Change		Deleted
90.		ASCO SOLENOID OPERATED VALVES	I.B	DOCUMENTATION	
		SOV-SI-101B Accumulator Nitrogen Relief Line	Replaced with ASCO NP Series		Qualified
		SOV-SI-100 Accumulator Nitrogen Relief Line	Replaced with ASCO NP Series		Qualified
		SOV-RM-100B Radiation Monitoring Trip Valve	Replaced with ASCO NP Series		Qualified
		SOV-VG-109B Primary Drain Transfer Tank Vent	Replaced with ASCO NP Series		Qualified
		SOV-CV-150D Containment Vacuum Pump Suction	Replaced with ASCO NP Series		Qualified
		SOV-CC-105A Reactor Coolant Pump Water Isolation	Replaced with ASCO NP Series		Qualified
		SOV-CC-105B Reactor Coolant Pump Water Isolation	Replaced with ASCO NP Series		Qualified
		SOV-CC-105C Reactor Coolant Pump Water Isolation	Replaced with ASCO NP Series		Qualified
		SOV-CC-107 Reactor Coolant Pump Thermal Barrier Isolation	Replaced with ASCO NP Series		Qualified
		SOV-CC-109A Cooling Water Return from Residual Heat Exchanger Isolation	Replaced with ASCO NP Series		Qualified
		SOV-CV-150B Containment Vacuum Pump Suction	Replaced with ASCO NP Series		Qualified
85.		SOV-SI-200 Accumulator Nitrogen Relief Line	Replaced with ASCO NP Series		Qualified
85.		SOV-SI-201B Accumulator Nitrogen Relief Line	Replaced with ASCO NP Series		Qualified
85.		SOV-RM-200B Radiation Monitoring Trip Valve	Replaced with ASCO NP Series		Qualified
85.		SOV-CC-209A Cooling Water Return From Residual Heat Exchanger Isolation	Replaced with ASCO NP Series		Qualified
92.		SOV-CV-250B Containment Vacuum Pump Suction	Replaced with ASCO NP Series		Qualified
92.		SOV-CV-250D Containment Vacuum Pump Suction	Replaced with ASCO NP Series		Qualified
92.		SOV-CC-207 Reactor Coolant Pump Thermal Barrier Isolation	Replaced with ASCO NP Series		Qualified
92.		SOV-CC-205A Reactor Coolant Pump Water Isolation	Replaced with ASCO NP Series		Qualified
92.		SOV-CC-205B Reactor Coolant Pump Water Isolation	Replaced with ASCO NP Series		Qualified
92.		SOV-CC-205C Reactor Coolant Pump Water Isolation	Replaced with ASCO NP Series		Qualified
97.		SOV-VG-209B Primary Drain Transfer Tank Vent	Replaced with ASCO NP Series		Qualified

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NUMBER

DESCRIPTION

NRC
CATEGORY

DEFICIENCY

RESOLUTION

U1 U2

90A. ASCO SOLENOID OPERATED VALVES
SOV-CC-109B Cooling Water Return from Residual Heat Exchanger Isolation

I.A NONE

Qualified

ASCO SOLENOID OPERATED VALVES
102. SOV-CC-209B Cooling Water Return from Residual Heat Exchanger Isolation

I.B DOCUMENTATION
Replaced with ASCO NP Series

Qualified

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U1	U2	DESCRIPTION	NRC CATEGORY	DEFICIENCY	RESOLUTION
91.		ASCO SOLENOID OPERATED VALVES	II.C	QUALIFIED LIFE	
		SOV-BD-100E Outside Blowdown Trip Valve		Replaced with ASCO NP Series	Qualified
		SOV-BD-100C Outside Blowdown Trip Valve		Replaced with ASCO NP Series	Qualified
		SOV-BD-100A Outside Blowdown Trip Valve		Replaced with ASCO NP Series	Qualified
		ASCO SOLENOID OPERATED VALVES	I.B	DOCUMENTATION	
78.		SOV-BD-200A Outside Blowdown Trip Valve		Replaced with ASCO NP Series	Qualified
78.		SOV-BD-200C Outside Blowdown Trip Valve		Replaced with ASCO NP Series	Qualified
81.		SOV-BD-200E Outside Blowdown Trip Valve		Replaced with ASCO NP Series	Qualified
92.		ASCO SOLENOID OPERATED VALVES	III.B	NONE	
		SOV-SI-102A1 Primary Coolant Cold Leg		Deleted R-4 dated 08/24/81 79-01B	Deleted
		SOV-SI-102B1 Primary Coolant Cold Leg		Deleted R-4 dated 08/24/81 79-01B	Deleted
		ASCO SOLENOID OPERATED VALVES	III.A	NONE	
87.		SOV-SI-202A1 Primary Coolant Cold Leg		Deleted R-4 dated 08/24/81 79-01B	Deleted
87.		SOV-SI-202B1 Primary Coolant Cold Leg		Deleted R-4 dated 08/24/81 79-01B	Deleted
93.		ASCO SOLENOID OPERATED VALVES	I.B	DOCUMENTATION	
		SOV-BD-100B Inside Blowdown Trip Valve		Replaced with ASCO NP Series	Qualified
		SOV-BD-100D Inside Blowdown Trip Valve		Replaced with ASCO NP Series	Qualified
79.		SOV-BD-200B Inside Blowdown Trip Valve		Replaced with ASCO NP Series	Qualified
		ASCO SOLENOID OPERATED VALVES	I.B	DOCUMENTATION	
80.		SOV-BD-200D Inside Blowdown Trip Valve		Replaced with ASCO NP Series	Qualified

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	DESCRIPTION	NRC CATEGORY	DEFICIENCY	RESOLUTION
94.	ASCO SOLENOID OPERATED VALVES	I.B	DOCUMENTATION	
	SOV-LM-100A Containment Leakage Monitoring	Replaced with ASCO NP Series		Qualified
	SOV-LM-100B Containment Leakage Monitoring	Replaced with ASCO NP Series		Qualified
	SOV-LM-100C Containment Leakage Monitoring	Replaced with ASCO NP Series		Qualified
	SOV-LM-100D Containment Leakage Monitoring	Replaced with ASCO NP Series		Qualified
	SOV-LM-100E Containment Leakage Monitoring	Replaced with ASCO NP Series		Qualified
	SOV-LM-100F Containment Leakage Monitoring	Replaced with ASCO NP Series		Qualified
	SOV-LM-100G Containment Leakage Monitoring	Replaced with ASCO NP Series		Qualified
	SOV-LM-101A Containment Leakage Monitoring	Removed from Plant by Design Change		Deleted
	SOV-LM-100H Containment Leakage Monitoring	Replaced with ASCO NP Series		Qualified
	SOV-BD-100F Inside Blowdown Trip Valve	Replaced with ASCO NP Series		Qualified
80.	SOV-BD-200F Inside Blowdown Trip Valve	Replaced with ASCO NP Series		Qualified
99.	SOV-LM-200A Containment Leakage Monitoring	Replaced with ASCO NP Series		Qualified
99.	SOV-LM-200B Containment Leakage Monitoring	Replaced with ASCO NP Series		Qualified
99.	SOV-LM-200C Containment Leakage Monitoring	Replaced with ASCO NP Series		Qualified
99.	SOV-LM-200D Containment Leakage Monitoring	Replaced with ASCO NP Series		Qualified
99.	SOV-LM-200E Containment Leakage Monitoring	Replaced with ASCO NP Series		Qualified
99.	SOV-LM-200F Containment Leakage Monitoring	Replaced with ASCO NP Series		Qualified
99.	SOV-LM-200G Containment Leakage Monitoring	Replaced with ASCO NP Series		Qualified
99.	SOV-LM-200H Containment Leakage Monitoring	Replaced with ASCO NP Series		Qualified
99.	SOV-LM-201A Containment Leakage Monitoring	Removed from Plant by Design Change		Deleted
95.	ASCO SOLENOID OPERATED VALVES	I.B	DOCUMENTATION	
	SOV-MS-109 Main Steam Line Drain	Replaced with ASCO NP Series		Qualified
98.	SOV-MS-209 Main Steam Line Drain	Replaced with ASCO NP Series		Qualified
96.	ASCO SOLENOID OPERATED VALVES	II.C	QUALIFIED LIFE	
	SOV-SI-101A Accumulator Nitrogen Relief Line	Replaced with ASCO NP Series		Qualified
	ASCO SOLENOID OPERATED VALVES	I.B	DOCUMENTATION	
86.	SOV-SI-201A Accumulator Nitrogen Relief Line	Replaced with ASCO NP Series		Qualified

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97.		ASCO SOLENOID OPERATED VALVES	I.B	DOCUMENTATION	
		SOV-1204 Letdown Inlet Non-Regenerative Heat Exchanger	Replaced with ASCO NP Series		Qualified
104.		SOV-2204 Letdown Inlet Non-Regenerative Heat Exchanger	Replaced with ASCO NP Series		Qualified
98.		ASCO SOLENOID OPERATED VALVES	I.B	DOCUMENTATION	
		SOV-SS-102B1 Primary Coolant Cold Leg Sample	Replaced with Valcor SOV-TV-SS-102B		Deleted
83.		SOV-SS-202B1 Primary Coolant Cold Leg Sample	Replaced with Valcor SOV-TV-SS-202B		Deleted
99.		ASCO SOLENOID OPERATED VALVES	I.B	DOCUMENTATION	
		SOV-SV-102A Condenser Air Ejector Vent	Replaced with ASCO NP Series		Qualified
106.		SOV-SV-202A Condenser Air Ejector Vent	Replaced with ASCO NP Series		Qualified
100.		ASCO SOLENOID OPERATED VALVES	I.B	DOCUMENTATION	
		SOV-IA-101A Containment Instrument Air Compressor Suction	Replaced with ASCO NP Series		Qualified
		ASCO SOLENOID OPERATED VALVES	II.C	QUALIFIED LIFE	
101.		SOV-IA-201A Containment Instrument Air Compressor Suction	Replaced with ASCO NP Series		Qualified
101.		ASCO SOLENOID OPERATED VALVES	I.B	DOCUMENTATION	
		SOV-SS-102A1 Primary Coolant Cold Leg Sample	Replaced with Valcor SOV-TV-SS-102A		Deleted
		SOV-SS-101A1 Pressurizer Vapor Space Sample	Replaced with ASCO NP Series		Qualified
		SOV-SS-100A1 Pressurizer Liquid Space Sample	Replaced with ASCO NP Series		Qualified
82.		SOV-SS-200A1 Pressurizer Liquid Space Sample			Note 1
82.		SOV-SS-201A1 Pressurizer Vapor Space Sample	Replaced with ASCO NP Series		Qualified
84.		SOV-SS-202A1 Primary Coolant Cold Leg Sample	Replaced with Valcor SOV-TV-SS-202A		Deleted

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	DESCRIPTION	NRC CATEGORY	DEFICIENCY	RESOLUTION
U1 U2				
102.	ASCO SOLENOID OPERATED VALVES	I.B	DOCUMENTATION	
	SOV-IA-101B Containment Instrument Air Compressor Suction		Replaced with ASCO NP Series	Qualified
	SOV-IA-100 Containment Instrument Air Compressor Discharge		Replaced with ASCO NP Series	Qualified
100.	SOV-IA-200 Containment Instrument Air Compressor Discharge		Replaced with ASCO NP Series	Qualified
80.	SOV-IA-201B Containment Instrument Air Compressor Suction		Replaced with ASCO NP Series	Qualified
102A.	TARGET ROCK SOLENOID OPERATED VALVES	I.B	DOCUMENTATION	
	SOV-RC-100A-1 Reactor Coolant System Venting (Vessel)	NuReg-0737		Note 1
	SOV-RC-100A-2 Reactor Coolant System Venting (Vessel)	NuReg-0737		Note 1
	SOV-RC-100B-1 Reactor Coolant System Venting (Vessel)	NuReg-0737		Note 1
	SOV-RC-100B-2 Reactor Coolant System Venting (Vessel)	NuReg-0737		Note 1
	SOV-RC-101A-1 Reactor Coolant System Venting (Pressurizer)	NuReg-0737		Note 1
	SOV-RC-101A-2 Reactor Coolant System Venting (Pressurizer)	NuReg-0737		Note 1
	SOV-RC-101B-1 Reactor Coolant System Venting (Pressurizer)	NuReg-0737		Note 1
	SOV-RC-101B-2 Reactor Coolant System Venting (Pressurizer)	NuReg-0737		Note 1
126A.	SOV-RC-200A-1 Reactor Coolant System Venting (Vessel)	NuReg-0737		Note 1
126A.	SOV-RC-200A-2 Reactor Coolant System Venting (Vessel)	NuReg-0737		Note 1
126A.	SOV-RC-200B-1 Reactor Coolant System Venting (Vessel)	NuReg-0737		Note 1
126A.	SOV-RC-200B-2 Reactor Coolant System Venting (Vessel)	NuReg-0737		Note 1
126A.	SOV-RC-201A-1 Reactor Coolant System Venting (Pressurizer)	NuReg-0737		Note 1
126A.	SOV-RC-201A-2 Reactor Coolant System Venting (Pressurizer)	NuReg-0737		Note 1
126A.	SOV-RC-201B-1 Reactor Coolant System Venting (Pressurizer)	NuReg-0737		Note 1
126A.	SOV-RC-201B-2 Reactor Coolant System Venting (Pressurizer)	NuReg-0737		Note 1
103.	WESTINGHOUSE FLOW CONTROL VALVES	III.B	NONE	
	FCV-1122 Charging Flow Control		Deleted R-4 dated 08/24/81 - 79-01B	Deleted
	FISCHER AND PORTER FLOW VALVE CONTROL	III.A	NONE	
31.	FCV-2122 Charging Flow Control		Deleted R-4 dated 08/24/81 - 79-01B	Deleted

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105.		ASCO SOLENOID OPERATED VALVES	II.C	QUALIFIED LIFE	
		SOV-DA-103A Containment Isolation Auxiliary Building Sump		Installed Conax Seals	Qualified
		SOV-DA-103B Containment Isolation Auxiliary Building Sump		Installed Conax Seals	Qualified
117.		SOV-DA-203A Containment Isolation Auxiliary Building Sump		Installed Conax Seals	Qualified
117.		SOV-DA-203B Containment Isolation Auxiliary Building Sump		Installed Conax Seals	Qualified
112.		VALCOR SOLENOID OPERATED VALVES	I.B	DOCUMENTATION	
		HCV-SS-100A Post-Accident Sampling Residual Heat Removal System		NuReg-0737 Item	Note 3
		HCV-SS-100B Post-Accident Sampling Residual Heat Removal System		NuReg-0737 Item	Note 3
124.		HCV-SS-200A Post Accident Sampling Residual Heat Removal System		NuReg-0737 Item	Note 1
124.		HCV-SS-200B Post Accident Sampling Residual Heat Removal System		NuReg-0737 Item	Note 1
112A.		VALCOR SOLENOID OPERATED VALVES	I.B	DOCUMENTATION	
		HCV-SS-101D Primary Coolant Hot Leg Sampling Valve		NuReg-0737 Item	Note 3
		HCV-SS-102A Primary Coolant Cold Leg Sampling Valve		NuReg-0737 Item	Note 3
125.		HCV-SS-201D Primary Coolant Hot Leg Sampling Valve		NuReg-0737 Item	Note 1
125.		HCV-SS-202A Primary Coolant Cold Leg Sampling Valve		NuReg-0737 Item	Note 1
113.		VALCOR SOLENOID OPERATED VALVES	I.B	DOCUMENTATION	
		TV-SS-102A Primary Coolant Cold Leg Sampling Valve		NuReg-0737 Item	Note 3
		TV-SS-106A Primary Coolant Hot Leg Sampling Valve		NuReg-0737 Item	Note 3
		TV-SS-103A Post-Accident Sampling Residual Heat Removal System		NuReg-0737 Item	Note 3
		TV-SS-103B Post-Accident Sampling Residual Heat Removal System		NuReg-0737 Item	Note 3
125.		TV-SS-202A Primary Coolant Cold Leg Sampling Valve		NuReg-0737 Item	Note 1
125.		TV-SS-206A Primary Coolant Hot Leg Sampling Valve		NuReg-0737 Item	Note 1
125.		TV-SS-203A Post-Accident Sampling Residual Heat Removal System		NuReg-0737 Item	Note 1
125.		TV-SS-203B Post-Accident Sampling Residual Heat Removal System		NuReg-0737 Item	Note 1

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U1 U2

114.

VALCOR SOLENOID OPERATED VALVES

DESCRIPTION

NRC
CATEGORY

DEFICIENCY

RESOLUTION

I.B

DOCUMENTATION

TV-GW-100	Hydrogen Analyzer #1 Suction	NuReg-0737 Item	Note 3
TV-GW-101	Hydrogen Analyzer #1 Suction	NuReg-0737 Item	Note 3
TV-GW-102	Hydrogen Analyzer #1 Discharge	NuReg-0737 Item	Note 3
TV-GW-103	Hydrogen Analyzer #1 Discharge	NuReg-0737 Item	Note 3
TV-GW-104	Hydrogen Analyzer #2 Suction	NuReg-0737 Item	Note 3
TV-GW-105	Hydrogen Analyzer #2 Suction	NuReg-0737 Item	Note 3
TV-GW-106	Hydrogen Analyzer #2 Discharge	NuReg-0737 Item	Note 3
TV-GW-107	Hydrogen Analyzer #2 Discharge	NuReg-0737 Item	Note 3
TV-SS-102B	Primary Coolant Cold Leg Sampling Valve	NuReg-0737 Item	Note 3
TV-SS-103B	Post-Accident Sampling Residual Heat Removal System	NuReg-0737 Item	Note 3
TV-SS-106B	Primary Coolant Hot Leg Sampling Valve	NuReg-0737 Item	Note 3
TV-GW-111A	Containment Atmos. Sample	NuReg-0737 Item	Note 3
TV-GW-111B	Containment Atmos. Sample	NuReg-0737 Item	Note 3
TV-GW-112A	Hydrogen Analyzer	NuReg-0737 Item	Note 3
TV-GW-112B	Hydrogen Analyzer	NuReg-0737 Item	Note 3
126. TV-GW-200	Hydrogen Analyzer #1 Suction	NuReg-0737 Item	Note 1
126. TV-GW-201	Hydrogen Analyzer #1 Suction	NuReg-0737 Item	Note 1
126. TV-GW-202	Hydrogen Analyzer #1 Discharge	NuReg-0737 Item	Note 1
126. TV-GW-203	Hydrogen Analyzer #1 Discharge	NuReg-0737 Item	Note 1
126. TV-GW-204	Hydrogen Analyzer #2 Suction	NuReg-0737 Item	Note 1
126. TV-GW-205	Hydrogen Analyzer #2 Suction	NuReg-0737 Item	Note 1
126. TV-GW-206	Hydrogen Analyzer #2 Discharge	NuReg-0737 Item	Note 1
126. TV-GW-207	Hydrogen Analyzer #2 Discharge	NuReg-0737 Item	Note 1
126. TV-SS-202B	Primary Coolant Cold Leg Sampling Valve	NuReg-0737 Item	Note 1
126. TV-SS-206B	Primary Coolant Hot Leg Sampling Valve	NuReg-0737 Item	Note 1
126. TV-SS-203B	Post-Accident Sampling System Residual Heat Removal System	NuReg-0737 Item	Note 1
126. TV-GW-211A	Containment Atmos. Sample	NuReg-0737 Item	Note 1
126. TV-GW-211B	Containment Atmos. Sample	NuReg-0737 Item	Note 1
126. TV-GW-212A	Hydrogen Analyzer	NuReg-0737 Item	Note 1
126. TV-GW-212B	Hydrogen Analyzer	NuReg-0737 Item	Note 1
126. HCV-SS-201A	Primary Coolant Hot Leg Sample Valve	NuReg-0737 Item	Note 1
126. HCV-SS-201B	Primary Coolant Hot Leg Sample Valve	NuReg-0737 Item	Note 1
126. HCV-SS-201C	Primary Coolant Hot Leg Sample Valve	NuReg-0737 Item	Note 1
126. HCV-SS-202B	Primary Coolant Cold Leg Sample Valve	NuReg-0737 Item	Note 1
126. HCV-SS-202C	Primary Coolant Cold Leg Sample Valve	NuReg-0737 Item	Note 1

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NRC
CATEGORY

DEFICIENCY

RESOLUTION

U1 U2

25A.

FISHER LIMIT SWITCHES

I.B

DOCUMENTATION

ZS-BD-100A-1	Steam Generator Blowdown Isolation	Replaced with Namco EA-180	Qualified
ZS-BD-100A-2	Steam Generator Blowdown Isolation	Replaced with Namco EA-180	Qualified
ZS-BD-100B-1	Steam Generator Blowdown Isolation	Replaced with Namco EA-180	Qualified
ZS-BD-100B-2	Steam Generator Blowdown Isolation	Replaced with Namco EA-180	Qualified
ZS-BD-100C-1	Steam Generator Blowdown Isolation	Replaced with Namco EA-180	Qualified
ZS-BD-100C-2	Steam Generator Blowdown Isolation	Replaced with Namco EA-180	Qualified
ZS-BD-100D-1	Steam Generator Blowdown Isolation	Replaced with Namco EA-180	Qualified
ZS-BD-100D-2	Steam Generator Blowdown Isolation	Replaced with Namco EA-180	Qualified
ZS-BD-100E-1	Steam Generator Blowdown Isolation	Replaced with Namco EA-180	Qualified
ZS-BD-100E-2	Steam Generator Blowdown Isolation	Replaced with Namco EA-180	Qualified
ZS-BD-100F-1	Steam Generator Blowdown Isolation	Replaced with Namco EA-180	Qualified
ZS-BD-100F-2	Steam Generator Blowdown Isolation	Replaced with Namco EA-180	Qualified
ZS-CC-105A-1	Reactor Coolant Pump Water Isolation	Replaced with Namco EA-180	Qualified
ZS-CC-105A-2	Reactor Coolant Pump Water Isolation		Note 2
ZS-CC-105B-1	Reactor Coolant Pump Water Isolation		Note 2
ZS-CC-105B-2	Reactor Coolant Pump Water Isolation		Note 2
ZS-CC-105C-1	Reactor Coolant Pump Water Isolation		Note 2
ZS-CC-105C-2	Reactor Coolant Pump Water Isolation		Note 2
ZS-CC-107-1	Reactor Coolant Pump Thermal Barrier Isolation		Note 2
ZS-CC-107-2	Reactor Coolant Pump Thermal Barrier Isolation		Note 2
ZS-CV-150A-1	Containment Vacuum Pump Suction		Note 2
ZS-CV-150A-2	Containment Vacuum Pump Suction		Note 2
ZS-CV-150B-1	Containment Vacuum Pump Suction		Note 2
ZS-CV-150B-2	Containment Vacuum Pump Suction		Note 2
ZS-CV-150C-1	Containment Vacuum Pump Suction		Note 2
ZS-CV-150C-2	Containment Vacuum Pump Suction		Note 2
ZS-CV-150D-1	Containment Vacuum Pump Suction		Note 2
ZS-CV-150D-2	Containment Vacuum Pump Suction		Note 2
ZS-DA-100A-1	Reactor Containment Sump Pump Discharge		Note 2
ZS-DA-100A-2	Reactor Containment Sump Pump Discharge		Note 2
ZS-DA-100B-1	Reactor Containment Sump Pump Discharge		Note 2
ZS-DA-100B-2	Reactor Containment Sump Pump Discharge		Note 2
ZS-DG-108A-1	Primary Drain Transfer Pump Discharge		Note 2
ZS-DG-108A-2	Primary Drain Transfer Pump Discharge		Note 2
ZS-DG-108B-1	Primary Drain Transfer Pump Discharge		Note 2
ZS-DG-108B-2	Primary Drain Transfer Pump Discharge		Note 2
ZS-MS-109-1	Main Stream Line Drain		Note 2
ZS-MS-109-2	Main Stream Line Drain		Note 2
ZS-RM-100A-1	Radiation Monitor		Note 2
ZS-RM-100A-2	Radiation Monitor		Note 2
ZS-RM-100B-1	Radiation Monitor		Note 2
ZS-RM-100B-2	Radiation Monitor		Note 2

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25A. FISHER LIMIT SWITCHES

I.B

DOCUMENTATION

ZS-RM-100C-1	Radiation Monitor			Note 2
ZS-RM-100C-2	Radiation Monitor			Note 2
ZS-SI-100-1	Accumulator Nitrogen Relief Line			Note 2
ZS-SI-100-2	Accumulator Nitrogen Relief Line			Note 2
ZS-SI-101A-1	Accumulator Nitrogen Relief Line			Note 2
ZS-SI-101A-2	Accumulator Nitrogen Relief Line			Note 2
ZS-SI-101B-1	Accumulator Nitrogen Relief Line			Note 2
ZS-SI-101B-2	Accumulator Nitrogen Relief Line			Note 2
ZS-SV-102A-1	Condenser Air Ejector Vent			Note 2
ZS-SV-102A-2	Condenser Air Ejector Vent			Note 2
ZS-VG-109A-1	Primary Drain Transfer Tank Vent			Note 2
ZS-VG-109A-2	Primary Drain Transfer Tank Vent			Note 2
ZS-VG-109B-1	Primary Drain Transfer Tank Vent			Note 2
ZS-VG-109B-2	Primary Drain Transfer Tank Vent			Note 2
ZS-MS-110-1	Main Steam Line Drain			Note 2
ZS-MS-110-2	Main Steam Line Drain			Note 2
23A. ZS-BD-200A-1	Steam Generator Blowdown Isolation	Replaced with Namco	EA-180	Qualified
23A. ZS-BD-200A-2	Steam Generator Blowdown Isolation	Replaced with Namco	EA-180	Qualified
23A. ZS-BD-200B-1	Steam Generator Blowdown Isolation	Replaced with Namco	EA-180	Qualified
23A. ZS-BD-200B-2	Steam Generator Blowdown Isolation	Replaced with Namco	EA-180	Qualified
23A. ZS-BD-200C-1	Steam Generator Blowdown Isolation	Replaced with Namco	EA-180	Qualified
23A. ZS-BD-200C-2	Steam Generator Blowdown Isolation	Replaced with Namco	EA-180	Qualified
23A. ZS-BD-200D-1	Steam Generator Blowdown Isolation	Replaced with Namco	EA-180	Qualified
23A. ZS-BD-200D-2	Steam Generator Blowdown Isolation	Replaced with Namco	EA-180	Qualified
23A. ZS-BD-200E-1	Steam Generator Blowdown Isolation	Replaced with Namco	EA-180	Qualified
23A. ZS-BD-200E-2	Steam Generator Blowdown Isolation	Replaced with Namco	EA-180	Qualified
23A. ZS-BD-200F-1	Steam Generator Blowdown Isolation	Replaced with Namco	EA-180	Qualified
23A. ZS-BD-200F-2	Steam Generator Blowdown Isolation	Replaced with Namco	EA-180	Qualified
23A. ZS-CC-205A-1	Reactor Coolant Pump Water Isolation			Note 2
23A. ZS-CC-205A-2	Reactor Coolant Pump Water Isolation			Note 2
23A. ZS-CC-205B-1	Reactor Coolant Pump Water Isolation			Note 2
23A. ZS-CC-205B-2	Reactor Coolant Pump Water Isolation			Note 2
23A. ZS-CC-205C-1	Reactor Coolant Pump Water Isolation			Note 2
23A. ZS-CC-205C-2	Reactor Coolant Pump Water Isolation			Note 2
23A. ZS-CC-207-1	Reactor Coolant Pump Thermal Barrier Isolation			Note 2
23A. ZS-CC-207-2	Reactor Coolant Pump Thermal Barrier Isolation			Note 2
23A. ZS-CV-250A-1	Containment Vacuum Pump Suction			Note 2
23A. ZS-CV-250A-2	Containment Vacuum Pump Suction			Note 2
23A. ZS-CV-250B-1	Containment Vacuum Pump Suction			Note 2
23A. ZS-CV-250B-2	Containment Vacuum Pump Suction			Note 2
23A. ZS-CV-250C-1	Containment Vacuum Pump Suction			Note 2
23A. ZS-CV-250C-2	Containment Vacuum Pump Suction			Note 2
23A. ZS-CV-250D-1	Containment Vacuum Pump Suction			Note 2
23A. ZS-CV-250D-2	Containment Vacuum Pump Suction			Note 2

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25A. FISHER LIMIT SWITCHES

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23A.	ZS-DA-200A-1	Reactor Containment Sump Pressure Pump Discharge	Note 2
23A.	ZS-DA-200A-2	Reactor Containment Sump Pressure Pump Discharge	Note 2
23A.	ZS-DA-200B-1	Reactor Containment Sump Pressure Pump Discharge	Note 2
23A.	ZS-DA-200B-2	Reactor Containment Sump Pressure Pump Discharge	Note 2
23A.	ZS-DG-208A-1	Primary Drain Transfer Pump Discharge	Note 2
23A.	ZS-DG-208A-2	Primary Drain Transfer Pump Discharge	Note 2
23A.	ZS-DG-208B-1	Primary Drain Transfer Pump Discharge	Note 2
23A.	ZS-DG-208B-2	Primary Drain Transfer Pump Discharge	Note 2
23A.	ZS-MS-209-1	Main Steam Line Drain	Note 2
23A.	ZS-MS-209-2	Main Steam Line Drain	Note 2
23A.	ZS-MS-210-1	Main Steam Line Drain	Note 2
23A.	ZS-MS-210-2	Main Steam Line Drain	Note 2
23A.	ZS-RM-200A-1	Radiation Monitor	Note 2
23A.	ZS-RM-200A-2	Radiation Monitor	Note 2
23A.	ZS-RM-200B-1	Radiation Monitor	Note 2
23A.	ZS-RM-200B-2	Radiation Monitor	Note 2
23A.	ZS-RM-200C-1	Radiation Monitor	Note 2
23A.	ZS-RM-200C-2	Radiation Monitor	Note 2
23A.	ZS-SI-200-1	Accumulator Nitrogen Relief Line	Note 2
23A.	ZS-SI-200-2	Accumulator Nitrogen Relief Line	Note 2
23A.	ZS-SI-201A-1	Accumulator Nitrogen Relief Line	Note 2
23A.	ZS-SI-201A-2	Accumulator Nitrogen Relief Line	Note 2
23A.	ZS-SI-201B-1	Accumulator Nitrogen Relief Line	Note 2
23A.	ZS-SI-201B-2	Accumulator Nitrogen Relief Line	Note 2
23A.	ZS-SV-202A-1	Condenser Air Ejector Vent	Note 2
23A.	ZS-SV-202A-2	Condenser Air Ejector Vent	Note 2
23A.	ZS-VG-209A-1	Primary Drain Transfer Tank Vent	Note 2
23A.	ZS-VG-209A-2	Primary Drain Transfer Tank Vent	Note 2
23A.	ZS-VG-209B-1	Primary Drain Transfer Tank Vent	Note 2
23A.	ZS-VG-209B-2	Primary Drain Transfer Tank Vent	Note 2

25B. NAMCO LIMIT SWITCHES

I.B

NONE

ZS-IA-101A-1	Containment Instrument Air Compressor Suction	Note 2
ZS-IA-101A-2	Containment Instrument Air Compressor Suction	Note 2
ZS-IA-101B-1	Containment Instrument Air Compressor Suction	Note 2
ZS-IA-101B-2	Containment Instrument Air Compressor Suction	Note 2
ZS-MS-101A-1	Main Steam Line Trip Valve	Note 2
ZS-MS-101A-2	Main Steam Line Trip Valve	Note 2

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U1	U2				
25B.		NAMCO LIMIT SWITCHES	I.B	NONE	
		ZS-MS-101B-1			Note 2
		ZS-MS-101B-2			Note 2
		ZS-1200B-1			Note 2
		ZS-1200B-2			Note 2
		ZS-1200C-1			Note 2
		ZS-1200C-2			Note 2
		ZS-1204-1			Note 2
		ZS-1204-2			Note 2
		ZS-1519A-1			Note 2
		ZS-1519A-2			Note 2
		ZS-MS-101C-1			Note 2
		ZS-MS-101C-2			Note 2
120A.		ZS-IA-201A-1			Note 2
120A.		ZS-IA-201A-2			Note 2
120A.		ZS-IA-201B-1			Note 2
120A.		ZS-IA-201B-2			Note 2
120A.		ZS-MS-201A-1			Note 2
120A.		ZS-MS-201A-2			Note 2
120A.		ZS-MS-201B-1			Note 2
120A.		ZS-MS-201B-2			Note 2
120A.		ZS-MS-201C-1			Note 2
120A.		ZS-MS-201C-2			Note 2
120A.		ZS-2200B-1			Note 2
120A.		ZS-2200B-2			Note 2
120A.		ZS-2200C-1			Note 2
120A.		ZS-2200C-2			Note 2
120A.		ZS-2204-1			Note 2
120A.		ZS-2204-2			Note 2
120A.		ZS-2519A-1			Note 2
120A.		ZS-2519A-2			Note 2

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U1	U2				
25C.		NAMCO LIMIT SWITCHES	I.A	NONE	
		ZS-IA-100-1			Note 2
		ZS-IA-100-2			Note 2
		ZS-1200A-1			Qualified
		ZS-1200A-2			Qualified
		ZS-1455C-1			Qualified
		ZS-1455C-2			Qualified
		ZS-1456-1			Qualified
		ZS-1456-2			Qualified
		ZS-1884A-1			Deleted
		ZS-1884A-2	Removed by Design Change		Deleted
		ZS-1884B-1	Removed by Design Change		Deleted
		ZS-1884B-2	Removed by Design Change		Deleted
		ZS-1884C-1	Removed by Design Change		Deleted
		ZS-1884C-2	Removed by Design Change		Deleted
120B.		ZS-IA-200-1			Note 2
120B.		ZS-IA-200-2			Note 2
120B.		ZS-2200A-1			Qualified
120B.		ZS-2200A-2			Qualified
120B.		ZS-2455C-1			Qualified
120B.		ZS-2455C-2			Qualified
120B.		ZS-2456-1			Qualified
120B.		ZS-2456-2			Qualified
120B.		ZS-2884A-1	Removed by Design Change		Deleted
120B.		ZS-2884A-2	Removed by Design Change		Deleted
120B.		ZS-2884B-1	Removed by Design Change		Deleted
120B.		ZS-2884B-2	Removed by Design Change		Deleted
120B.		ZS-2884C-1	Removed by Design Change		Deleted
120B.		ZS-2884C-2	Removed by Design Change		Deleted
108.		NAMCO LIMIT SWITCHES	II.C	QUALIFIED LIFE	
		ZS-DA-103A-1			Note 2
		ZS-DA-103A-2			Note 2
		ZS-DA-103B-1			Note 2
		ZS-DA-103B-2			Note 2
120.		ZS-DA-203A-1			Note 2
120.		ZS-DA-203A-2			Note 2
120.		ZS-DA-203B-1			Note 2
120.		ZS-DA-203B-2			Note 2

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25D. MICRO-SWITCH LIMIT SWITCHES I.B NONE

ZS-CC-109A-1	Cooling Water Return Residual Heat Exchanger Isolation	Note 2
ZS-CC-109A-2	Cooling Water Return Residual Heat Exchanger Isolation	Note 2
ZS-CC-109B-1	Cooling Water Return Residual Heat Exchanger Isolation	Note 2
ZS-CC-109B-2	Cooling Water Return Residual Heat Exchanger Isolation	Note 2
ZS-CC-110A-1	Containment Recirculation Air Cooler Discharge	Note 2
ZS-CC-110A-2	Containment Recirculation Air Cooler Discharge	Note 2
ZS-CC-110B-1	Containment Recirculation Air Cooler Discharge	Note 2
ZS-CC-110B-2	Containment Recirculation Air Cooler Discharge	Note 2
ZS-CC-110C-1	Containment Recirculation Air Cooler Discharge	Note 2
ZS-CC-110C-2	Containment Recirculation Air Cooler Discharge	Note 2
ZS-SS-104A-1	Pressurizer Relief Tank Vapor Space Sample	Note 2
ZS-SS-104A-2	Pressurizer Relief Tank Vapor Space Sample	Note 2
ZS-SS-104B-1	Pressurizer Relief Tank Vapor Space Sample	Note 2
ZS-SS-104B-2	Pressurizer Relief Tank Vapor Space Sample	Note 2
ZS-LM-100A-1	Containment Leakage Monitoring	Note 2
ZS-LM-100A-2	Containment Leakage Monitoring	Note 2
ZS-LM-100B-1	Containment Leakage Monitoring	Note 2
ZS-LM-100B-2	Containment Leakage Monitoring	Note 2
ZS-LM-100C-1	Containment Leakage Monitoring	Note 2
ZS-LM-100C-2	Containment Leakage Monitoring	Note 2
ZS-LM-100D-1	Containment Leakage Monitoring	Note 2
ZS-LM-100D-2	Containment Leakage Monitoring	Note 2
ZS-LM-100E-1	Containment Leakage Monitoring	Note 2
ZS-LM-100E-2	Containment Leakage Monitoring	Note 2
ZS-LM-100F-1	Containment Leakage Monitoring	Note 2
ZS-LM-100F-2	Containment Leakage Monitoring	Note 2
ZS-LM-100G-1	Containment Leakage Monitoring	Note 2
ZS-LM-100G-2	Containment Leakage Monitoring	Note 2
ZS-LM-100H-1	Containment Leakage Monitoring	Note 2
ZS-LM-100H-2	Containment Leakage Monitoring	Note 2
ZS-SS-100A-1	Pressurizer Liquid Space Sample (TV-SS-100A)	Note 2
ZS-SS-100A-2	Pressurizer Liquid Space Sample (TV-SS-100A)	Note 2
ZS-SS-100B-1	Pressurizer Liquid Space Sample (TV-SS-100B)	Note 2
ZS-SS-100B-2	Pressurizer Liquid Space Sample (TV-SS-100B)	Note 2
ZS-SS-101B-1	Pressurizer Vapor Space Sample (TV-SS-101B)	Note 2
ZS-SS-101B-2	Pressurizer Vapor Space Sample (TV-SS-101B)	Note 2
ZS-SS-101A-1	Pressurizer Vapor Space Sample (TV-SS-101A)	Note 2
ZS-SS-101A-2	Pressurizer Vapor Space Sample (TV-SS-101A)	Note 2

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U1	U2				
		MICRO-SWITCH LIMIT SWITCHES	I.B	DOCUMENTATION	
23.	ZS-CC-209A-1	Cooling Water Return Residual Heat Exchanger Isolation			Note 2
23.	ZS-CC-209A-2	Cooling Water Return Residual Heat Exchanger Isolation			Note 2
23.	ZS-CC-209B-1	Cooling Water Return Residual Heat Exchanger Isolation			Note 2
23.	ZS-CC-209B-2	Cooling Water Return Residual Heat Exchanger Isolation			Note 2
23.	ZS-CC-210A-1	Containment Recirculation Air Cooler Discharge			Note 2
23.	ZS-CC-210A-2	Containment Recirculation Air Cooler Discharge			Note 2
23.	ZS-CC-210B-1	Containment Recirculation Air Cooler Discharge			Note 2
23.	ZS-CC-210B-2	Containment Recirculation Air Cooler Discharge			Note 2
23.	ZS-CC-210C-1	Containment Recirculation Air Cooler Discharge			Note 2
23.	ZS-CC-210C-2	Containment Recirculation Air Cooler Discharge			Note 2
23.	ZS-SS-204A-1	Pressurizer Relief Tank Vapor Space Sample Isolation Valve			Note 2
23.	ZS-SS-204A-2	Pressurizer Relief Tank Vapor Space Sample Isolation Valve			Note 2
23.	ZS-SS-204B-1	Pressurizer Relief Tank Vapor Space Sample Isolation Valve			Note 2
23.	ZS-SS-204B-2	Pressurizer Relief Tank Vapor Space Sample Isolation Valve			Note 2
23.	ZS-LM-200A-1	Containment Leakage Monitoring			Note 2
23.	ZS-LM-200A-2	Containment Leakage Monitoring			Note 2
23.	ZS-LM-200B-1	Containment Leakage Monitoring			Note 2
23.	ZS-LM-200B-2	Containment Leakage Monitoring			Note 2
23.	ZS-LM-200C-1	Containment Leakage Monitoring			Note 2
23.	ZS-LM-200C-2	Containment Leakage Monitoring			Note 2
23.	ZS-LM-200D-1	Containment Leakage Monitoring			Note 2
23.	ZS-LM-200D-2	Containment Leakage Monitoring			Note 2
23.	ZS-LM-200E-1	Containment Leakage Monitoring			Note 2
23.	ZS-LM-200E-2	Containment Leakage Monitoring			Note 2
23.	ZS-LM-200F-1	Containment Leakage Monitoring			Note 2
23.	ZS-LM-200F-2	Containment Leakage Monitoring			Note 2
23.	ZS-LM-200G-1	Containment Leakage Monitoring			Note 2
23.	ZS-LM-200G-2	Containment Leakage Monitoring			Note 2
23.	ZS-LM-200H-1	Containment Leakage Monitoring			Note 2
23.	ZS-LM-200H-2	Containment Leakage Monitoring			Note 2
23.	ZS-SS-200A-1	Pressurizer Liquid Space Sample TV-SS-200A			Note 2
23.	ZS-SS-200A-2	Pressurizer Liquid Space Sample TV-SS-200A			Note 2
23.	ZS-SS-200B-1	Pressurizer Liquid Space Sample TV-SS-200B			Note 2
23.	ZS-SS-200B-2	Pressurizer Liquid Space Sample TV-SS-200B			Note 2
23.	ZS-SS-201A-1	Pressurizer Vapor Space Sample TV-SS-201A			Note 2
23.	ZS-SS-201A-2	Pressurizer Vapor Space Sample TV-SS-201A			Note 2
23.	ZS-SS-201B-1	Pressurizer Vapor Space Sample TV-SS-201B			Note 2
23.	ZS-SS-201B-2	Pressurizer Vapor Space Sample TV-SS-201B			Note 2

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U1	U2				
25E.		GORDOS LIMIT SWITCHES	I.B	DOCUMENTATION	
		ZS-RC-100A1-1 LS SOV RC 100A-1 (Open Position), Reactor Coolant System Vent (Vessel)		NuReg-0737	Note 1
		ZS-RC-100A1-2 LS SOV RC 100A-1 (Closed Position), Reactor Coolant System Vent (Vessel)		NuReg-0737	Note 1
		ZS-RC-100A2-1 LS SOV RC 100A-2 (Open Position), Reactor Coolant System Vent (Vessel)		NuReg-0737	Note 1
		ZS-RC-100A2-2 LS SOV RC 100A-2 (Closed Position), Reactor Coolant System Vent (Vessel)		NuReg-0737	Note 1
		ZS-RC-100B1-1 LS SOV RC 100B-1 (Open Position), Reactor Coolant System Vent (Vessel)		NuReg-0737	Note 1
		ZS-RC-100B1-2 LS SOV RC 100B-1 (Closed Position), Reactor Coolant System Vent (Vessel)		NuReg-0737	Note 1
		ZS-RC-100B2-1 LS SOV RC 100B-2 (Open Position), Reactor Coolant System Vent (Vessel)		NuReg-0737	Note 1
		ZS-RC-100B2-2 LS SOV RC 100B-2 (Closed Position), Reactor Coolant System Vent (Vessel)		NuReg-0737	Note 1
		ZS-RC-101A1-1 LS SOV RC 101A-1 (Open Position), Reactor Coolant System Vent Pressurizer		NuReg-0737	Note 1
		ZS-RC-101A1-2 LS SOV RC 101A-1 (Closed Position), Reactor Coolant System Vent Pressurizer		NuReg-0737	Note 1
		ZS-RC-101A2-1 LS SOV RC 101A-2 (Open Position), Reactor Coolant System Vent Pressurizer		NuReg-0737	Note 1
		ZS-RC-101A2-2 LS SOV RC 101A-2 (Closed Position), Reactor Coolant System Vent Pressurizer		NuReg-0737	Note 1
		ZS-RC-101B1-1 LS SOV RC 101B-1 (Open Position), Reactor Coolant System Vent Pressurizer		NuReg-0737	Note 1
		ZS-RC-101B1-2 LS SOV RC 101B-1 (Closed Position), Reactor Coolant System Vent Pressurizer		NuReg-0737	Note 1
		ZS-RC-101B2-1 LS SOV RC 101B-2 (Open Position), Reactor Coolant System Vent Pressurizer		NuReg-0737	Note 1
		ZS-RC-101B2-2 LS SOV RC 101B-2 (Closed Position), Reactor Coolant System Vent Pressurizer		NuReg-0737	Note 1
128A.		ZS-RC-200A1-1 LS SOV RC 100A-1 (Open Position), Reactor Coolant System Vent (Vessel)		NuReg-0737	Note 1
128A.		ZS-RC-200A2-1 LS SOV RC 100A-1 (Closed Position), Reactor Coolant System Vent (Vessel)		NuReg-0737	Note 1
128A.		ZS-RC-200A1-2 LS SOV RC 100A-2 (Open Position), Reactor Coolant System Vent (Vessel)		NuReg-0737	Note 1
128A.		ZS-RC-200A2-2 LS SOV RC 100A-2 (Closed Position), Reactor Coolant System Vent (Vessel)		NuReg-0737	Note 1
128A.		ZS-RC-200B1-1 LS SOV RC 100B-1 (Open Position), Reactor Coolant System Vent (Vessel)		NuReg-0737	Note 1
128A.		ZS-RC-200B2-1 LS SOV RC 100B-1 (Closed Position), Reactor Coolant System Vent (Vessel)		NuReg-0737	Note 1
128A.		ZS-RC-200B1-2 LS SOV RC 100B-2 (Open Position), Reactor Coolant System Vent (Vessel)		NuReg-0737	Note 1
128A.		ZS-RC-200B2-2 LS SOV RC 100B-2 (Closed Position), Reactor Coolant System Vent (Vessel)		NuReg-0737	Note 1
128A.		ZS-RC-201A1-1 LS SOV RC 101A-1 (Open Position), Reactor Coolant System Vent Pressurizer		NuReg-0737	Note 1
128A.		ZS-RC-201A2-1 LS SOV RC 101A-1 (Closed Position), Reactor Coolant System Vent Pressurizer		NuReg-0737	Note 1
128A.		ZS-RC-201A1-2 LS SOV RC 101A-2 (Open Position), Reactor Coolant System Vent Pressurizer		NuReg-0737	Note 1
128A.		ZS-RC-201A2-2 LS SOV RC 101A-2 (Closed Position), Reactor Coolant System Pressurizer		NuReg-0737	Note 1
128A.		ZS-RC-201B1-1 LS SOV RC 101B-1 (Open Position), Reactor Coolant System Vent Pressurizer		NuReg-0737	Note 1
128A.		ZS-RC-201B2-2 LS SOV RC 101B-1 (Closed Position), Reactor Coolant System Vent Pressurizer		NuReg-0737	Note 1
128A.		ZS-RC-201B1-1 LS SOV RC 101B-2 (Open Position), Reactor Coolant System Vent Pressurizer		NuReg-0737	Note 1
128A.		ZS-RC-201B2-2 LS SOV RC 101B-2 (Closed Position), Reactor Coolant System Vent Pressurizer		NuReg-0737	Note 1

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NUMBER**

U1 U2

DESCRIPTION

**NRC
CATEGORY**

DEFICIENCY

RESOLUTION

115. GORDOS LIMIT SWITCHES

II.A

DOCUMENTATION

ZS-SS-100A-1 Post-Accident Sampling, RHR-HCV-SS-100A
ZS-SS-100A-2 Post-Accident Sampling, RHR-HCV-SS-100A
ZS-SS-100B-1 Post-Accident Sampling, RHR-HCV-SS-100B
ZS-SS-100B-2 Post-Accident Sampling, RHR-HCV-SS-100B
127. ZS-SS-200A-1 Post Accident Sampling, RHR-HCV-SS-200A
127. ZS-SS-200A-2 Post Accident Sampling, RHR-HCV-SS-200A
127. ZS-SS-200B-1 Post Accident Sampling, RHR-HCV-SS-200B
127. ZS-SS-200B-2 Post Accident Sampling, RHR-HCV-SS-200B

NuReg-0737 Item
NuReg-0737 Item
NuReg-0737 Item
NuReg-0737 Item
NuReg-0737 Item
NuReg-0737 Item
NuReg-0737 Item
NuReg-0737 Item

Note 3
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Note 1
Note 1

116. GORDOS LIMIT SWITCHES

II.A

DOCUMENTATION

ZS-SS-102A-1 Primary Coolant Cold Leg Sampling Valve
ZS-SS-102A-2 Primary Coolant Cold Leg Sampling Valve
ZS-SS-106A-1 Primary Coolant Hot Leg Sampling Valve
ZS-SS-106A-2 Primary Coolant Hot Leg Sampling Valve
ZS-SS-101D-1 Primary Coolant Hot Leg Sampling Valve
ZS-SS-101D-2 Primary Coolant Hot Leg Sampling Valve
ZS-SS-102A-3 Post-Accident Sampling, Residual Heat Removal System
ZS-SS-102A-4 Post-Accident Sampling, Residual Heat Removal System
ZS-SS-103A-1 Post-Accident Sampling, Residual Heat Removal System
ZS-SS-103A-2 Post-Accident Sampling, Residual Heat Removal System
128. ZS-SS-202A-1 Primary Coolant Cold Leg Sampling Valve
128. ZS-SS-202A-2 Primary Coolant Cold Leg Sampling Valve
128. ZS-SS-206A-1 Primary Coolant Hot Leg Sampling Valve
128. ZS-SS-206A-2 Primary Coolant Hot Leg Sampling Valve
128. ZS-SS-201D-1 Primary Coolant Hot Leg Sampling Valve
128. ZS-SS-201D-2 Primary Coolant Hot Leg Sampling Valve
128. ZS-SS-202A-3 Post Accident Sampling Residual Heat Removal System
128. ZS-SS-202A-4 Post Accident Sampling Residual Heat Removal System
128. ZS-SS-203A-1 Post Accident Sampling Residual Heat Removal System
128. ZS-SS-203A-2 Post Accident Sampling Residual Heat Removal System

NuReg-0737 Item
NuReg-0737 Item
NuReg-0737 Item
NuReg-0737 Item
NuReg-0737 Item
NuReg-0737 Item
NuReg-0737 Item
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Note 3
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Note 1

"STATUS OF ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT
AT SURRY POWER STATION FOR UNITS 1 & 2"

TECHNICAL
EVALUATION
REPORT
ITEM
NUMBER

DESCRIPTION

NRC
CATEGORY

DEFICIENCY

RESOLUTION

U1 U2

117. GORDOS LIMIT SWITCHES

II.A DOCUMENTATION

ZS-SS-102B-1	Primary Coolant Cold Leg Sampling Valve	NuReg-0737 Item	Note 3
ZS-SS-102B-2	Primary Coolant Cold Leg Sampling Valve	NuReg-0737 Item	Note 3
ZS-SS-106B-1	Primary Coolant Hot Leg Sampling Valve	NuReg-0737 Item	Note 3
ZS-SS-106B-2	Primary Coolant Hot Leg Sampling Valve	NuReg-0737 Item	Note 3
ZS-SS-103B-1	Post Accident Sampling Residual Heat Removal System	NuReg-0737 Item	Note 3
ZS-SS-103B-2	Post Accident Sampling Residual Heat Removal System	NuReg-0737 Item	Note 3
ZS-TV-GW-111A-1	Containment Atmos. Sample	NuReg-0737 Item	Note 3
ZS-TV-GW-111A-2	Containment Atmos. Sample	NuReg-0737 Item	Note 3
ZS-TV-GW-111B-1	Containment Atmos. Sample	NuReg-0737 Item	Note 3
ZS-TV-GW-111B-2	Containment Atmos. Sample	NuReg-0737 Item	Note 3
ZS-TV-GW-112A-1	Hydrogen Analyzer	NuReg-0737 Item	Note 3
ZS-TV-GW-112A-2	Hydrogen Analyzer	NuReg-0737 Item	Note 3
ZS-TV-GW-112B-1	Hydrogen Analyzer	NuReg-0737 Item	Note 3
ZS-TV-GW-112B-2	Hydrogen Analyzer	NuReg-0737 Item	Note 3
ZS-GW-100-1	Hydrogen Analyzer #1 Suction	NuReg-0737 Item	Note 3
ZS-GW-100-2	Hydrogen Analyzer #1 Suction	NuReg-0737 Item	Note 3
ZS-GW-101-1	Hydrogen Analyzer #1 Suction	NuReg-0737 Item	Note 3
ZS-GW-101-2	Hydrogen Analyzer #1 Suction	NuReg-0737 Item	Note 3
ZS-GW-102-1	Hydrogen Analyzer #1 Discharge	NuReg-0737 Item	Note 3
ZS-GW-102-2	Hydrogen Analyzer #1 Discharge	NuReg-0737 Item	Note 3
ZS-GW-103-1	Hydrogen Analyzer #1 Discharge	NuReg-0737 Item	Note 3
ZS-GW-103-2	Hydrogen Analyzer #1 Discharge	NuReg-0737 Item	Note 3
ZS-GW-104-1	Hydrogen Analyzer #2 Suction	NuReg-0737 Item	Note 3
ZS-GW-104-2	Hydrogen Analyzer #2 Suction	NuReg-0737 Item	Note 3
ZS-GW-105-1	Hydrogen Analyzer #2 Suction	NuReg-0737 Item	Note 3
ZS-GW-105-2	Hydrogen Analyzer #2 Suction	NuReg-0737 Item	Note 3
ZS-GW-106-1	Hydrogen Analyzer #2 Discharge	NuReg-0737 Item	Note 3
ZS-GW-106-2	Hydrogen Analyzer #2 Discharge	NuReg-0737 Item	Note 3
ZS-GW-107-1	Hydrogen Analyzer #2 Discharge	NuReg-0737 Item	Note 3
ZS-GW-107-2	Hydrogen Analyzer #2 Discharge	NuReg-0737 Item	Note 3
129. ZS-SS-202B-1	Primary Coolant Cold Leg Sampling Valve	NuReg-0737 Item	Note 1
129. ZS-SS-202B-2	Primary Coolant Cold Leg Sampling Valve	NuReg-0737 Item	Note 1
129. ZS-SS-206B-1	Primary Coolant Hot Leg Sampling Valve	NuReg-0737 Item	Note 1
129. ZS-SS-206B-2	Primary Coolant Hot Leg Sampling Valve	NuReg-0737 Item	Note 1
129. ZS-SS-203B-1	Post Accident Sampling Residual Heat Removal System	NuReg-0737 Item	Note 1
129. ZS-SS-203B-2	Post Accident Sampling Residual Heat Removal System	NuReg-0737 Item	Note 1
129. ZS-TV-GW-211A-1	Containment Atmos. Sample	NuReg-0737 Item	Note 1
129. ZS-TV-GW-211A-2	Containment Atmos. Sample	NuReg-0737 Item	Note 1
129. ZS-TV-GW-211B-1	Containment Atmos. Sample	NuReg-0737 Item	Note 1
129. ZS-TV-GW-211B-2	Containment Atmos. Sample	NuReg-0737 Item	Note 1
129. ZS-TV-GW-212A-1	Hydrogen Analyzer	NuReg-0737 Item	Note 1
129. ZS-TV-GW-212A-2	Hydrogen Analyzer	NuReg-0737 Item	Note 1

"STATUS OF ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT
AT SURRY POWER STATION FOR UNITS 1 & 2"

TECHNICAL
EVALUATION
REPORT
ITEM
NUMBER

DESCRIPTION

NRC
CATEGORY

DEFICIENCY

RESOLUTION

U1 U2

117. GORDOS LIMIT SWITCHES

II.A

DOCUMENTATION

129. ZS-TV-GW-212B-1	Hydrogen Analyzer	NuReg-0737	Item	Note 1
129. ZS-TV-GW-212B-2	Hydrogen Analyzer	NuReg-0737	Item	Note 1
129. ZS-GW-200-1	Hydrogen Analyzer #1 Suction	NuReg-0737	Item	Note 1
129. ZS-GW-200-2	Hydrogen Analyzer #1 Suction	NuReg-0737	Item	Note 1
129. ZS-GW-201-1	Hydrogen Analyzer #1 Suction	NuReg-0737	Item	Note 1
129. ZS-GW-201-2	Hydrogen Analyzer #1 Suction	NuReg-0737	Item	Note 1
129. ZS-GW-202-1	Hydrogen Analyzer #1 Discharge	NuReg-0737	Item	Note 1
129. ZS-GW-202-2	Hydrogen Analyzer #1 Discharge	NuReg-0737	Item	Note 1
129. ZS-GW-203-1	Hydrogen Analyzer #1 Discharge	NuReg-0737	Item	Note 1
129. ZS-GW-203-2	Hydrogen Analyzer #1 Discharge	NuReg-0737	Item	Note 1
129. ZS-GW-204-1	Hydrogen Analyzer #2 Suction	NuReg-0737	Item	Note 1
129. ZS-GW-204-2	Hydrogen Analyzer #2 Suction	NuReg-0737	Item	Note 1
129. ZS-GW-205-1	Hydrogen Analyzer #2 Suction	NuReg-0737	Item	Note 1
129. ZS-GW-205-2	Hydrogen Analyzer #2 Suction	NuReg-0737	Item	Note 1
129. ZS-GW-206-1	Hydrogen Analyzer #2 Discharge	NuReg-0737	Item	Note 1
129. ZS-GW-206-2	Hydrogen Analyzer #2 Discharge	NuReg-0737	Item	Note 1
129. ZS-GW-207-1	Hydrogen Analyzer #2 Discharge	NuReg-0737	Item	Note 1
129. ZS-GW-207-2	Hydrogen Analyzer #2 Discharge	NuReg-0737	Item	Note 1

"STATUS OF ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT
AT SURRY POWER STATION FOR UNITS 1 & 2"

TECHNICAL EVALUATION REPORT ITEM NUMBER		DESCRIPTION	NRC CATEGORY	DEFICIENCY	RESOLUTION
U1	U2				
24.		BENDIX HYDROGEN ANALYZERS	I.B	DOCUMENTATION	
		GW-H2A-103 Radioactive Waste Gas		Deleted R-4 dated 08/24/81 - 79-01B	Deleted
28.		GW-H2A-203 Radioactive Waste Gas		Deleted R-4 dated 08/24/81 - 79-01B	Deleted
118.		COMSIP-DELPHI HYDROGEN ANALYZER	IV	NONE	
		H2A-GW-104-1 Hydrogen Analyzer		QDR File Developed	Qualified
		H2A-GW-104-2 Hydrogen Analyzer		Control Module in Mild Environment	Deleted
130.		H2A-GW-204-1 Hydrogen Analyzer		QDR File Developed	Qualified
130.		H2A-GW-204-2 Hydrogen Analyzer		Control Module in Mild Environment	Deleted
27.		WESTINGHOUSE HYDROGEN RECOMBINERS	I.A	NONE	
		GW-HC-2A Hydrogen Recombiner			Qualified
		GW-HC-2B Hydrogen Recombiner			Qualified
27.		GW-HC-2A Hydrogen Recombiner			Qualified
27.		GW-HC-2B Hydrogen Recombiner			Qualified
29.		WESTINGHOUSE POWER PANELS	III.B	NONE	
		GW-HC-2A Supply Power Hydrogen Recombiner Unit		Deleted R-4 dated 08/24/81 - 79-01B	Deleted
29.		GW-HC-2A Supply Power Hydrogen Recombiner Unit		Deleted R-4 dated 08/24/81 - 79-01B	Deleted
30.		WESTINGHOUSE POWER PANELS	III.B	NONE	
		GW-HC-2B Supply Power Hydrogen Recombiner Unit		Deleted R-4 dated 08/24/81 - 79-01B	Deleted
29.		GW-HC-2B Supply Power Hydrogen Recombiner Unit		Deleted R-4 dated 08/24/81 - 79-01B	Deleted

"STATUS OF ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT
AT SURRY POWER STATION FOR UNITS 1 & 2"

TECHNICAL EVALUATION REPORT ITEM NUMBER		DESCRIPTION	NRC CATEGORY	DEFICIENCY	RESOLUTION
U1	U2				
55.		CUTLER-HAMMER 480 VOLT MOTOR CONTROL CENTERS	III.A	DOCUMENTATION	
		H1-2-SOUTH Supply Power to Safety System	Deleted R-4	dated 08/24/81 - 79-01B	Deleted
		H1-2-NORTH Supply Power to Safety System	Deleted R-4	dated 08/24/81 - 79-01B	Deleted
		J1-2-WEST Supply Power to Safety System	Deleted R-4	dated 08/24/81 - 79-01B	Deleted
		J1-2-EAST Supply Power to Safety System	Deleted R-4	dated 08/24/81 - 79-01B	Deleted
		CUTLER-HAMMER 480 VOLT MOTOR CONTROL CENTERS	II.A	DOCUMENTATION	
63.		H1-2-SOUTH Auxiliary Building Cable Vault	Deleted R-4	dated 08/24/81 - 79-01B	Deleted
63.		H1-2-NORTH Auxiliary Building Cable Vault	Deleted R-4	dated 08/24/81 - 79-01B	Deleted
63.		J1-2-WEST Auxiliary Building Cable Vault	Deleted R-4	dated 08/24/81 - 79-01B	Deleted
63.		J1-2-EAST Auxiliary Building Cable Vault	Deleted R-4	dated 08/24/81 - 79-01B	Deleted
103A.		GAMMA-MERTICS FLUX MONITOR	I.B	DOCUMENTATION	
		NFD-190			Note 2
		NFD-1270			Note 2
63A.		NFD-290			Note 2
63A.		NFD-2270			Note 2

"STATUS OF ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT
AT SURRY POWER STATION FOR UNITS 1 & 2"

TECHNICAL EVALUATION REPORT ITEM NUMBER		DESCRIPTION	NRC CATEGORY	DEFICIENCY	RESOLUTION
U1	U2				
103B.		VICTOREEN HIGH RANGE RADIATION MONITORS	I.B	DOCUMENTATION	
		RM-RMS-127 Containment High Range Radiation Monitor	NuReg-0737		Note 1
		RM-RMS-128 Containment High Range Radiation Monitor	NuReg-0737		Note 1
		VICTOREEN HIGH RANGE RADIATION MONITORS	I.B	DOCUMENTATION	
63B.		RM-RMS-227 Containment High Range Radiation Monitor	NuReg-0737		Note 1
63B.		RM-RMS-228 Containment High Range Radiation Monitor	NuReg-0737		Note 1
103C.		WESTINGHOUSE INCORE THERMOCOUPLE SYSTEMS	I.B	DOCUMENTATION	
		TC-00 Core Exit Thermocouple Temperature			Note 2
		WESTINGHOUSE INCORE THERMOCOUPLE SYSTEMS	I.B	DOCUMENTATION	
63C.		TC-00 Core Exit Thermocouple Temperature			Note 2

"STATUS OF ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT
AT SURRY POWER STATION FOR UNITS 1 & 2"

TECHNICAL EVALUATION REPORT ITEM NUMBER		DESCRIPTION	NRC CATEGORY	DEFICIENCY	RESOLUTION
U1	U2				
109.		ENDEVCO ACCELEROMETERS	I.B	NONE	
		YE-VMS-100A-1 Pressurizer Safety Valve Position			Note 2
		YE-VMS-100A-2 Pressurizer Safety Valve Position			Note 2
		YE-VMS-100B-1 Pressurizer Safety Valve Position			Note 2
		YE-VMS-100B-2 Pressurizer Safety Valve Position			Note 2
		YE-VMS-100C-1 Pressurizer Safety Valve Position			Note 2
		YE-VMS-100C-2 Pressurizer Safety Valve Position			Note 2
		YE-VMS-101A-1 Pressurizer Safety Valve Position	ZS-1456C1,2	Perform Function	Deleted
		YE-VMS-101A-2 Pressurizer Safety Valve Position			Note 2
		YE-VMS-101B-1 Pressurizer Safety Valve Position	ZS-1456C-1,2	Perform Function	Deleted
		YE-VMS-101B-2 Pressurizer Safety Valve Position			Note 2
121.		YE-VMS-200A-1 Pressurizer Safety Valve Position			Note 2
121.		YE-VMS-200A-2 Pressurizer Safety Valve Position			Note 2
121.		YE-VMS-200B-1 Pressurizer Safety Valve Position			Note 2
121.		YE-VMS-200B-2 Pressurizer Safety Valve Position			Note 2
121.		YE-VMS-200C-1 Pressurizer Safety Valve Position			Note 2
121.		YE-VMS-200C-2 Pressurizer Safety Valve Position			Note 2
121.		YE-VMS-201A-1 Pressurizer Safety Valve Position	ZS-2456C1,2	Perform Function	Deleted
121.		YE-VMS-201A-2 Pressurizer Safety Valve Position			Note 2
121.		YE-VMS-201B-1 Pressurizer Safety Valve Position	ZS-2456C-1,2	Perform Function	Deleted
121.		YE-VMS-201B-2 Pressurizer Safety Valve Position			Note 2

"STATUS OF ENVIRONMENTAL QUALIFICATION OF ELECTRICAL EQUIPMENT
AT SURRY POWER STATION FOR UNITS 1 & 2"

TECHNICAL EVALUATION REPORT ITEM NUMBER		DESCRIPTION	NRC CATEGORY	DEFICIENCY	RESOLUTION
U1	U2				
111.		UNHOLTZ-DICKIE REMOTE CHARGE PREAMPLIFIERS	I.B	NONE	
		YY-VMS-100A-1 Pressurizer Safety Valve Position			Note 2
		YY-VMS-100A-2 Pressurizer Safety Valve Position			Note 2
		YY-VMS-100B-1 Pressurizer Safety Valve Position			Note 2
		YY-VMS-100B-2 Pressurizer Safety Valve Position			Note 2
		YY-VMS-100C-1 Pressurizer Safety Valve Position			Note 2
		YY-VMS-100C-2 Pressurizer Safety Valve Position			Note 2
		YY-VMS-101A-1 Pressurizer Safety Valve Position	ZS-1456C1,2	Perform Function	Deleted
		YY-VMS-101A-2 Pressurizer Safety Valve Position			Note 2
		YY-VMS-101B-1 Pressurizer Safety Valve Position	ZS-1456C-1,2	Perform Function	Deleted
		YY-VMS-101B-2 Pressurizer Safety Valve Position			Note 2
123.		YY-VMS-200A-1 Pressurizer Safety Valve Position			Note 2
123.		YY-VMS-200A-2 Pressurizer Safety Valve Position			Note 2
123.		YY-VMS-200B-1 Pressurizer Safety Valve Position			Note 2
123.		YY-VMS-200B-2 Pressurizer Safety Valve Position			Note 2
123.		YY-VMS-200C-1 Pressurizer Safety Valve Position			Note 2
123.		YY-VMS-200C-2 Pressurizer Safety Valve Position			Note 2
123.		YY-VMS-201A-1 Pressurizer Safety Valve Position	ZS-1456C1,2	Perform Function	Deleted
123.		YY-VMS-201A-2 Pressurizer Safety Valve Position			Note 2
123.		YY-VMS-201B-1 Pressurizer Safety Valve Position	ZS-1456C-1,2	Perform Function	Deleted
123.		YY-VMS-201B-2 Pressurizer Safety Valve Position			Note 2

ATTACHMENT 2

SURRY JCO'S

SURRY JUSTIFICATION FOR CONTINUED OPERATION

1. Fischer Outside Recirculation spray pump discharge pressure transmitters
PT-RS-256A and B

The outside recirculation spray pump discharge pressure transmitters provide indication to the Control Room Operator of the performance of the pumps during the long term cooling mode of accident mitigation. The indication of satisfactory pump performance is also provided by motor current, flow indication and the containment parameters. Therefore the determination of continued satisfactory pump performance after the failure of these transmitters would be made by monitoring the related system parameters. Therefore, the failure of these transmitters will not significantly degrade the safety function or mislead the operator under the accident environment resulting from a design basis event.

2. Rosemount Wide Range Containment Pressure Transmitters
PT-LM-201A and B

The pressure signals derived from these transmitters are used for indication only and are redundant to the containment Pressure Protection channels. The accident functions are generated by environmentally qualified protection channel transmitters PT-LM-200A and B (0-60psia). Therefore, it is concluded that continued operation in the interim with this equipment until these transmitters are changed out will have no effect on safety. Additionally, no degradation of the safety function should occur nor should misleading information be provided to the operator as a result of failure of the equipment under the accident environment resulting from a design basis event.

3. Rosemount Low Head Safety Injection Flow Transmitters
FT-2945, 2946

These transmitters provide an indication of long term pump performance during the cold legs or hot leg injection or while providing a water source to the charging pumps.

The failure of these transmitters would have no effect on the operation of the LHSI pumps. The satisfactory operation of the pumps, upon the failure of these transmitters, would be continuously monitored by the Control Room Operator using alternate equipment including core parameters, pump motor current, system flows and sump and tank levels.

Therefore, the failure of these transmitters will not significantly degrade the safety function or mislead the operator under the accident environment resulting from a design basis event.

4. Barton Cold Leg Safety Injection Flow Transmitters

FT-1961, 1962, 1963, 2961, 2962, 2963

These transmitters provide an indication of pump performance during the cold leg injection phase. The failure of these transmitters would have no effect on the operation of the High Head Safety Injection pumps. The satisfactory operation of the pumps, upon the failure of these transmitters, would be continuously monitored by the control room operator using alternate equipment including core parameters, sump and tank levels.

Therefore, the failure of these transmitters will not significantly degrade the safety function or mislead the operator under the accident environment resulting under a design basis event.

5. Rosemount Steam Generator Wide Range Level Transmitter

LT-1477, 1487, 2477, 2487, 2497, 1497

The station emergency procedures require establishment of a water level at least one (1) steam generator by indication in the narrow range or the wide range level transmitter span. The wide range channel provides no safety function and is used primarily for filling and draining of the steam generators. A redundant set of environmentally qualified instrumentation (narrow range level transmitters) exists to provide the required indication.

On the basis of the above, it is concluded that no significant degradation of the safety function will occur, nor will misleading information be provided to the operator as a result of failure of the equipment under the accident environment resulting from a design basis event.

6. Rosemount Resistance Temperature Detectors for the RCS

TE-1410, 1420, 1430, 1413, 1423, 1433, 1412C, 1422C, 1432C, 1412B, 1422B, 1412D, 1422D, 1432B, 1432D, 1411B, 1411C, 1411D, 1421B, 1421C, 1421D, 1431B, 1431C, 1431D

TE-2410, 2420, 2430, 2413, 2423, 2433, 2412C, 2422C, 2432C, 2412B, 2422B, 2412D, 2422D, 2432B, 2432D, 2411B, 2411C, 2411D, 2421B, 2421C, 2421D, 2431B, 2431C, 2431D

The existing RTD's have been in service in the plant environment and functioned satisfactorily thus far. Further, Westinghouse has completed some DBA testing on similar RTD's for North Anna units (ref. WCAP-9157) which demonstrates their capability to function when exposed to harsh environments. Through periodic maintenance testing and cross checking of the redundant indicating instruments, proper operation of these RTD's can be verified.

On the basis of the above it is concluded that continued operation of the plant in the interim should have no effect on safety.

7. General Electric Charging Pump Component Cooling Water Pump Motors

1-CC-P-2A/2B, 2-CC-P-2A/2B

The charging pump component cooling water pumps provide seal cooling water for the charging pumps. The flow from the component cooling water pumps cools the charging pumps while they are in their safety mode of safety injection.

In the event of a cooling water pump failure, the manufacturer has determined that the charging pumps can operate indefinitely in normal ambient conditions without seal water coolant as long as the pumped fluid is less than 115°F. For the purpose of environmental qualification, the accident of concern is the HELB. Vepco has evaluated the areas of the charging pumps and charging pump CCW pumps, and has determined that there is no single HELB that can simultaneously render both the charging pump and CCW pump environments harsh.

In the safety injection mode the suction of the charging pumps is diverted from the normal source, at the volume control tank, to the refueling water storage tank by the safety injection signal. The water in the refueling water storage tank is cooled by Tech Spec requirement to a temperature of slightly below 45°F. Since the pumped fluid is less than 115°F we have concluded that the charging pumps can operate in the event of any HELB that might cause failure of the CCW pump motors.

It is concluded that the failure of the component cooling water pumps would not significantly degrade the safety function or provide misleading information to the operator under the accident environment resulting from a design basis event.

8. ASCO Solenoid Operated Valve

SOV-SS-200A (Inside Containment Isolation)

The solenoid valve that exists in the plant has been specified, installed, and maintained thus far in strict accordance with established power industry practices. This valve has Class B insulation coils rated at 266°F (130°C) for continuous operation. The existing solenoid valve is of NEMA type 4 construction, which is a watertight and dust tight construction. Its enclosure is intended to protect enclosed components against splashing water, seepage of water, and severe external environments. It is heat resistant. It is Underwriter's Laboratory listed, and Factory Mutual certified, which is based on type tests. Material analysis of the existing solenoid components (i.e., insulation, plastic parts such as bobbin, o-rings and seals) indicate that it has a radiation resistance of 10E6 rads or better.

Additionally, SOV-SS-200B, which is environmentally qualified, is located outside containment on the same line and performs the isolation function.

On the basis of the above, it is reasonable to conclude that this solenoid valve will perform its intended safety function when exposed to harsh environments. Therefore, it is concluded that no significant degradation of the safety function will occur, nor will misleading information be provided to the operator as a result of failure of the equipment under the accident environment resulting from a design basis event.