EXTENSION

OF

EQUIPMENT QUALIFICATION PROGRAMS

TO

Limerick Generating Station

Unit 2

February, 1989

8903160008 890307
PDR ADOCK 05000353
A PDC

TABLE OF CONTENTS

Section	Title	Page
1.0	INTRODUCTION	1
2.0	PROGRAM DESCRIPTION	2
2.1	Dynamic qualification	2
2.1.1	Criteria	2
2.1.2	NSSS Equipment	3
2.1.3	BOP Equipment	4
2.2	Environmental Qualification	6
2.2.1	Criteria	6
2.2.2	Electrical Equipment	6
3.0	PROGRAM ENHANCEMENTS	8
4.0	CONCLUSION	9
5.0	REFERENCES	10

Tables	Title
1.	Differences - Dynamic Qualification for NSSS Equipment
2.	Differences - Dynamic Qualification for BOP Equipment
3.	Differences - Environmental Qualification for Electrical Equipment

Attachments	Description
1.	EQRRs for LGS Unit 2 Electrical Equipment

1.0 INTRODUCTION

To demonstrate Equipment Qualification (EQ), design basis criteria are established in accordance with the applicable codes, standards, Regulatory Guides, and other licensing bases and documentation is prepared and consolidated to substantiate the required qualification. Documentation for Limerick Generating Station (LGS) Unit 1 was generated as an output of this EQ program for Unit 1 safety related equipment and certain post-accident monitoring equipment (R.G. 1.97 categories 1 and 2). The Nuclear Regulatory Commission (NRC) has reviewed and accepted the LGS program for Unit 1. This review and acceptance is established in the Limerick Safety Evaluation Report (SER - NUREG 0991) issued in August 1983 and through its supplements. Additionally, recent NRC Inspection Reports 88-02 and 89-01 show that implementation of the Unit 1 program continues to comply with 10CFR50.49.

This summary description for the extension of the LGS Unit 1 EQ program to Unit 2 has been prepared to 1) show that the EQ licensing commitments and program description as identified in the LGS Final Safety Analysis Report (FSAR) Section 3.9, 3.10 and 3.11 are applicable to both units and that the implementation for Unit 2 is an extension of the Unit 1 program, 2) identify differences in components or in items that affect qualification between Units 1 and 2 and document the qualification acceptability of those differences, 3) describe several enhancements undertaken for Unit 2 and 4) establish that the conclusion reached in the SER for the acceptance of the LGS Unit 1 qualification program is also valid for the application of the LGS program to Unit 2.

2.0 EXTENSION PROGRAM DESCRIPTION

The base criteria for the qualification of safety related equipment and a description of qualification methods have been provided in the LGS FSAR for both Nuclear Steam Supply System (NSSS) and Balance of Plant (BOP) equipment. Documentation has been generated for the Unit 2 EQ effort to either document the similarity and extension of Unit 1 qualification for like equipment or to provide additional qualification for new or different Unit 2 equipment. A similar comparison methodology has been utilized for both dynamic and environmental qualification. The applicable dynamic and environmental qualification criteria and the Unit 2 documentation status are discussed below.

2.1 Dynamic Qualification

2.1.1 Criteria

The LGS dynamic qualification program for safety related equipment and certain post-accident monitoring equipment considers the effects of both seismic and dynamic loads due to Loss of Coolant Accident (LOCA) and Main Steam Relief Valve (MSRV) discharge hydrodynamic phenomena. Dynamic qualification of mechanical and electrical equipment is discussed in FSAR Section 3.9 and 3.10 respectively. The LGS Design Assessment Report (DAR) Chapters 4 through 7 provide further information and the methodology used to qualify equipment to withstand the

additional hydrodynamic loads in combination with seismic and all other applicable loads. The dynamic qualification program has been shown to meet the intent of the current NRC licensing criteria as presented in Standard Review Plan (SRP) 3.10 and therefore to satisfy the applicable portions of the General Design Criteria 1, 2, 4, 14 and 30 of Appendix A to 10 CFR Part 100. As stated in part 1.0, the program and its implementation as described in the LGS FSAR are applicable to Units 1 and 2.

2.1.2 NSSS Equipment

Differences in the dynamic qualification for the Unit 2 equipment from the Unit 1 counterpart equipment are a result of either location differences or equipment differences. All equipment was reviewed to determine if any equipment had changed in location from Unit 1 to Unit 2. Once the relocated equipment was identified, input spectra at the new locations were compared with the spectra from the previous locations. Four items were identified in which the new spectra were not enveloped by the previous spectra. These are shown on Table 1. Each of these items was subsequently evaluated using the new input spectra and shown to be acceptable for the required loadings.

Base document revisions and unincorporated Field Deviation Disposition Requests (FDDRs) and Engineering Change Notices (ECNs) were also reviewed to identify any changes in equipment design. The identified equipment design changes were then utilized in performing the New Loads Evaluations. A listing of differences in equipment resulting from this review is provided in Table 1.

For Control and Instrumentation (C&I) equipment such as control room panels, local panels and shiploose equipment, an evaluation was performed which determined the differences between Unit 1 and Unit 2. The results of this evaluation indicated only minor differences relative to impact on Seismic Qualification Review Team (SQRT) Evaluations. When the Unit 2 SQRT work was performed, all Unit 2 safety related equipment was reviewed. Information on equipment capability was used from the Unit 1 evaluation where both units were identical. This assured a complete evaluation of Unit 2 while utilizing data from Unit 1 to the extent possible.

In addition to the required Quality Control inspections, walkdowns were performed according to an approved procedure for Unit 2 equipment on a sampling basis to ensure that installed equipment is consistent with qualification documentation.

In summary, all equipment has been evaluated and determined to be acceptable for the required loading combinations. SQRT reports have been prepared for all items as is required. Preparation of the New Loads Evaluations Final Summary Report is now in progress. SQRT evaluations and reports for all C&I equipment has been completed. Those reports will be revised to include the results of the evaluation of the walkdown information.

2.1.3. BOP Equipment

The dynamic qualification program for Unit 2 safety related BOP equipment is an extension of a the program implemented for Unit 1

equipment. Safety related equipment for Unit 2 was identified by reviewing Material Requisitions (MRs), drawings such as Quality Assurance Diagrams (QADs) which are a portion of the project Q-list, and other related project information. Following the identification process, the Unit 2 equipment was evaluated according to an approved procedure by comparison with the Unit 1 counterpart equipment and relative Unit 1 location. The review is documented in a series of checklists. The equipment requiring seismic qualification is included on the EQ Master List.

For Unit 2 equipment found similar to Unit 1, qualification is based on and documented using Unit 1 qualification documentation and SQRT forms. For Unit 2 equipment found to be different from that of Unit 1, qualification is performed by developing rationale/calculations for location differences, providing an evaluation for "g" level differences and reviewing reports and preparing SQRT forms for unique Unit 2 equipment.

Plant modifications accomplished by Project Change Notices (PCNs) and affecting Unit 2 equipment qualification have also been evaluated. For mods similar to Unit 1 mods, Unit 1 evaluations are used as the basis. For Unit 2 unique mods, calculations have been generated in support of Unit 2 qualification.

Finally, walkdowns were performed according to an approved procedure for Unit 2 equipment on a sampling basis to ensure that installed equipment is consistent with qualification documentation. Findings are documented and deviations evaluated based on the project criteria.

The qualification program identified above has been completed. The results of the Unit 1/Unit 2 differences evaluations for dynamic qualification of Unit 2 BOP equipment are provided in Table 2. Open items generated as a result of the Unit 2 program are being tracked by an open item punch list and are being resolved on a continuing basis. Currently, more then ninety percent of the Unit 2 BOP dynamic equipment qualification effort is completed.

2.2 Environmental Qualification

2.2.1 Criteria

The LGS environmental qualification program for both electrical and mechanical equipment is summarized in FSAR Section 3.11. A complete description of the program is provided in the Environmental Qualification Report (EQR) developed for Limerick Generating Station (Reference 4.1 and 4.2). The EQR is being reissued to include the results of extending the program to Unit 2. The environmental qualification program is based on General Design Criteria 1, 2, 4 and 23 of Appendix A to 10 CFR Part 50, Criterion III and Criterion XI of Appendix B to 10 CFR Part 50, 10 CFR Part 50.55a(h) and 10 CFR 50.49. Since the Limerick Construction Permit SER was issued in June 1974, NUREG-0588 Category II criteria are applicable.

2.2.2 Electrical Equipment

The environmental qualification program for LGS electrical equipment includes components of systems located within a potentially harsh

environment that are used to mitigate the consequences of a LOCA or High Energy Line Break (HELB) and also includes certain post-accident monitoring equipment and any non-safety related equipment whose failure could prevent accomplishment of a safety function. Primary containment and rooms containing high energy lines or post-LOCA recirculatory fluid lines in secondary containment are considered to be potentially harsh environments.

An identification process for Unit 2 safety related equipment was performed similar to the process utilized for Unit 1 qualification. The subsequent comparison of Unit 2 equipment with the Unit 1 counterpart equipment has been documented on a detailed checklist according to an approved procedure. These checklists have become a part of the existing environmental qualification documentation packages that were generated for Unit 1 equipment. Documentation is being added to these packages in the form of new reports, calculations or other justification as appropriate to extend the package applicability to equipment found to be different from that of Unit 1. New packages are being provided for Unit 2 unique equipment. Plant modifications affecting Unit 2 equipment were reviewed and documented consistent with the approach utilized for the dynamic qualification effort described above.

In addition to the required Quality Control inspections, a walkdown has been performed, according to an approved procedure, to ensure that environmentally qualified equipment is installed consistent with its respective qualification documentation. A checklist comparison of Unit 2 equipment with Unit 1 equipment has also been completed along with

the qualification of different and unique Unit 2 equipment. Table 3 presents a listing of Unit 2 equipment subject to the environmental qualification program that is different from Unit 1 or that is unique to Unit 2. Environmental Qualification Review Records (EQRRs) for this identified equipment are provided in Attachment 1. Open items resulting from the comparison and the walkdown are being tracked by an open item punch list and will be resolved prior to fuel load.

The results of the Unit 2 evaluation are included as supplementary information to the existing Unit 1 qualification documentation record packages and are available for audit. Environmental Qualification Review Records (EQRRs) are currently being prepared. These EQRRs and a listing of Unit 2 electrical equipment are being included in the EQR thus extending the applicability of this portion of the EQR to Unit 2. The environmental qualification documentation packages are currently undergoing a reformatting process and will incorporate the checklist comparison information, additional qualification documentation for different or unique equipment and walkdown results.

3.0 PROGRAM ENHANCEMENTS

As previously stated, the Unit 2 program is an extension of the Unit 1 program. However, there are a few differences between the programs that enhance the Unit 2 effort. The qualification review and support for plant modifications that affect the equipment qualification packages are now being incorporated into the package documentation. Additionally, procedures governing the modification process now require that review documentation for modifications affecting qualification be incorporated as a revision to the affected EQ package.

As further enhancement, the environmental qualification packages are being upgraded to include an expanded review check list. Additionally, for both the dynamic and environmental qualification programs, walkdowns are being performed and documented according to approved procedures and resulting information is being added to the affected EQ packages.

Additionally, an EQ Master List (EQML) is being generated as a subset of the LGS Unit 2 Material and Labor Control System (MLCS) to correlate equipment tag numbers with the appropriate qualification package. Additional information including description, manufacturer, model No., and ID No., is also being added to this listing. The EQML is to be maintained current through fuel load. After fuel load this list will be maintained for dynamically qualified equipment. The controlling EQML for environmentally qualified electric equipment is Appendix B of the LGS EQ Report.

4.0 CONCLUSION

The qualification of Unit 2 equipment is completed by an extension of the Unit 1 EQ program. The criteria as discussed in sections 2.1.1 and 2.2.1 for the dynamic and environmental qualification programs are applicable to both LGS Units 1 and 2. An extensive review and documentation process has been undertaken to identify the differences between the Units and to document the qualification of these differences. Identification of these differences and EQRRs for

environmentally qualified components are attached to this report. Justifications for Interim Operation (JIOs) because of EQ open items are not anticipated. For these reasons it is our opinion that the conclusions reached for NRC acceptance of the LGS EQ program as stated in the LGS SER and its supplements can be extended to its application to Unit 2.

5.0 REFERENCES

5.1 "Environmental Qualification Report for Limerick Generating Station Units 1 and 2" dated April 1984 transmitted by letter from E. J. Bradley (PECo) to H. R. Denton (NRC), dated August 31, 1984.

5.2 Letter, V. S. Boyer (PECo) to A. Schwencer (NRC), dated September 7, 1984.

Table 1

Differences - Dynamic Qualification for NSS Equipment

Item No.	Equipment MPL No.	Affected Component Description	Reason for Difference from Unit 1
01	B11-D002	Shroud Head Bolt (Units 1 & 2	New Design to eliminate the crevice area which was thought to be susceptible to IGSCC. Also, bolts were solution heat-treated after welding.
02	B11-D072	Head Cooling Spray Nozzle (Unit 2 only)	Deleted, replaced with blind flange.
03	B11-D080/ 93/94	Access Hole Cover (Units 1 & 2)	Modification to increase welding requirements.
04	B21-F013	Safety Relief Valves (Unit 2 Only)	New Loads from snubber reduction program.
05	B21-F022/ F028	Main Steam Isolation Valves (Unit 2 Only)	FDDRs issued to modify stem packing gland. Pneumatic control panel reoriented 180 degrees.
06	B32-F023, B32-F031	Recirc. Suct. Gate Valve Recirc. Disch. Gate Valve (Units 1 & 2)	FDDRs issued to replace SMB operator with SB, convert triple packing to double packing, modify packing ring.
07	C11-F001/ F181	CRD Drain Valves (Unit 2 Only)	New required response spectra.
08	C41-A001	SLC Tank (Unit 2 Only)	Increase in nozzle loads.
09	C41-C001	SLC Pump/Motor	Location difference, but same spectra applies.
10	E11-B001	RHR Heat Exchanger (Unit 2 Only)	New nozzle loads.
11	E11-N012	RHR Flow Orifice (Unit 2 Only)	Deleted RHR Head Spray System deleted.
12	E11-F041	RHR Test. Check Valve	FDDR: Solenoid Valve Changeout.
12	E11-F050	RHR Test. Check Valve	FDDR: Solenoid Valve Changeout, drain nipple shortened, air piping replaced with swagelock fillings.

Item No.	Equipment MPL No.	Affected Component Description	Reason for Difference from Unit 1
13	E41-C002, E51-C002	HPCI Turbine, RCIC Turbine (Units 1 & 2)	Both turbines upgraded for dynamic and environmental qualification.
14	H23-P076	Div. 2 RHR & Div.3 ADS Local Rack	Location Change.
15	H23-P078	Div.2 RHR & Div.3 ADS Local Rack	Location Change.
16	D12-N010A,D	Reactor Building Exhaust Monitor	Location Change.
17	H12-5140	RHR Heat Exchanger SW Discharge	Location Change.

TABLE 2

LIMERICK GENERATING STATION - UNITS 1 & 2 DIFFERENCES
DYNAMIC QUALIFICATION FOR BOP EQUIPMENT

REFERENCE EQ DOCUMENTATION BINDER	EQUIPMENT TAG NO.	AFFECTED COMPONENT DESCRIPTION	REASON FOR DIFFERENCE FROM UNIT 1	QUALIFICATION STATUS
D-001	VARIOUS	ROSEMOUNT TRANSMITTERS	DIFFERENT MODELS INSTALLED IN SOME APPLICATIONS DUE TO PLANT MODIFICATION	QUALIFIED
D-007	2AC514 2BC514 2CC514 2DC514	DIESEL GENERATOR ELECTRICAL INST. CONTROL BOARD	REPLACEMENT OF DEVICES DUE TO COMPONENT MODIFICATION. DEVICES INCLUDE RELAY, TEST SWITCH, TERMINAL BLOCK, FUSE AND FUSE BLOCK.	QUALIFIED
D-012	20B515 20B516 20B517 20B518	DIESEL GENERATOR AREA MOTOR CONTROL CENTERS	REPLACEMENT OF DEVICES DUE TO COMPONENT MODIFICATION. DEVICES INCLUDE UNITROL UNITS, CIRCUIT BREAKERS, CONTROL TRANSFORMERS, FUSES, TIMER RELAY, MULTI-POLE RELAY, LOCKING STRAPS, TERMINAL BLOCKS, MOUNTING CHANNEL AND COPPER LUG PAD.	QUALIFIED
D-014	20A115 20A116 20A117	SAFEGUARD SWITCHGEAR	REPLACEMENT OF DEVICES DUE TO COMPONENT MODIFICATION. DEVICES INCLUDE SWITCH, GROUND SENSOR CURRENT TRANSFORMER, UNDERVOLTAGE RELAY, ETR TIMERS, CONTROL RELAY, AUXILIARY RELAY, GENERAL PURPOSE RELAY, LOCKOUT RELAY, LOCKING STRAP, TEST BLOCK, INDICATING LAMP, TERMINAL BLOCK, FRONT CONNECTED SOCKET, CURRENT TRANSFORMER AND SELECTOR SWITCH. SOME OF THE DEVICES ARE NEW ADDITIONS OR DIFFERENT MODELS FROM THE ORIGINAL.	QUALIFIED
D-015	20B203 20B204	LOAD CENTER TRANSFORMERS	REPLACEMENT OF ORIGINAL UNITS WITH NEW UNITS DUE TO COMPONENT MODIFICATION.	QUALIFIED
D-015	20B201 20B202	REACTOR AREA SAFEGUARD LOAD CENTER SWITCHGEAR	REPLACEMENT OF DEVICES DUE TO COMPONENT MODIFICATION. DEVICES INCLUDE TIME DELAY RELAY, FRONT CONNECTED SOCKET, LOCKING STRAP, PLUG-IN ORIENTING PINS, CABLE LUG, LOAD CENTER TRANSFORMER AND 8 POINT TERMINAL BLOCKS. SOME OF THE DEVICES ARE LOCATED DIFFERENTLY FROM THE ORIGINAL. ALSO SOME DEVICES ARE NEW OR DIFFERENT MODELS FROM THE ORIGINAL.	QUALIFIED
D-015	20B203	REACTOR AREA SAFEGUARD	MODIFICATION TO RELOCATE WIRING AND TER-	QUALIFIED

TABLE 2

LIMERICK GENERATING STATION - UNITS 1 & 2 DIFFERENCES
DYNAMIC QUALIFICATION FOR BOP EQUIPMENT

REFERENCE EQ DOCUMENTATION BINDER	EQUIPMENT TAG NO.	AFFECTED COMPONENT DESCRIPTION	REASON FOR DIFFERENCE FROM UNIT 1	QUALIFICATION STATUS
	20B204	LOAD CENTER SWITCHGEAR	MINAL BLOCKS ABOVE POSTULATED FLOOD LEVEL.	
D-015	20X203 20X204	SAFEGUARD TRANSFORMERS	INSTALLATION INCLUDES BASE WELDED MOUNTING DUE TO COMPONENT MODIFICATION.	QUALIFIED
D-016	20B211 20B212 20B213 20B214 20B216 20B217 20B218 20B223 20B214	REACTOR AREA SAFEGUARD MOTOR CONTROL CENTERS	REPLACEMENT OF MOTOR STARTER AND VARIOUS DEVICES IN MCC DUE TO MODIFICATION. DEVICES INCLUDE CIRCUIT BREAKER, UNITROL UNIT, ROTARY RELAY, MULTIPOLE RELAY, INTERPOSING RELAY, CONTROL TRANSFORMER, FUSE, TERMINAL BLOCKS, TERMINAL CLAMP, MOUNTING CHANNEL, AUXILIARY CONTACT INTERLOCK COPPER LUG PAD. SOME DEVICES ARE LOCATED DIFFERENTLY OR ARE DIFFERENT MODELS FROM THE ORIGINAL.	QUALIFIED
D-018	20D201	DC MCC	REPLACEMENT OF TERMINAL BLOCKS DUE TO COMPONENT MODIFICATION.	QUALIFIED
D-019	2AD105 2BD105 2CD105 2DD105	DC FUSE BOXES	REPLACEMENT OF FUSES DUE TO MODIFICATION	QUALIFIED
D-054	SV-57-201 SV-57-284 SV-57-285	SOLENIOD VALVES	PROCUREMENT AND INSTALLATION OF DIFFERENT MODELS.	QUALIFIED
D-070	2AC248 2BC248	RPS BREAKER PANELS	REPLACEMENT OF RELAYS DUE TO COMPONENT MODIFICATION.	QUALIFIED
D-075	2AC696 2BC696	HYDROGEN RECOMBINER CONTROL PANELS	REPLACEMENT OR DEVICES DUE TO COMPONENT MODIFICATION. DEVICES INCLUDE RECORDER FUSE AND FUSE HOLDER, SOME DEVICES ARE DIFFERENT FROM THE ORIGINAL.	QUALIFIED
D-075	2AC224 2BC224	HYDROGEN RECOMBINER POWER PANELS	REPLACEMENT OF CIRCUIT BREAKER WITH NEW MODEL DUE TO PLANT MODIFICATION.	QUALIFIED

TABLE 2

LIMERICK GENERATING STATION - UNITS 1 & 2 DIFFERENCES
DYNAMIC QUALIFICATION FOR BOP EQUIPMENT

REFERENCE EQ DOCUMENTATION BINDER	EQUIPMENT TAG NO.	AFFECTED COMPONENT DESCRIPTION	REASON FOR DIFFERENCE FROM UNIT 1	QUALIFICATION STATUS
D-075	2AS403 2BS403	HYDROGEN RECOMBINER SKIDS	ADDITION OF NEW PRESSURE TRANSMITTER AND PIPE SUPPORTS DUE TO COMPONENT MODIFICATION.	QUALIFIED
D-087	AO-57-221 AO-57-231	AIR OPERATED VALVES	PROCURED AND INSTALLED VALVE FROM DIFFERENT MANUFACTURER.	UNDER REVIEW
D-088	AO-57-204 AO-57-214 AO-57-223 AO-57-224	AIR OPERATED VALVES	PROCURED AND INSTALLED VALVE FROM DIFFERENT MANUFACTURER.	UNDER REVIEW
D-100	HV-44-2F100	MOTOR OPERATED VALVE	PROCURED AND INSTALLED DIFFERENT VALVE MODEL.	QUALIFIED
D-105	HV-01-208 HV-01-211 HV-55-2F105	MOTOR OPERATED VALVES	PROCURED AND INSTALLED DIFFERENT VALVE MODELS.	QUALIFIED
D-110	HV-44-2F042	MOTOR OPERATED VALVE	PROCURED AND INSTALLED DIFFERENT VALVE MODEL.	QUALIFIED
D-118	HV-44-2F001 HV-44-2F105	MOTOR OPERATED VALVES	PROCURED AND INSTALLED DIFFERENT VALVE MODELS.	QUALIFIED
D-119	HV-57-209 HV-57-261 HV-57-262 HV-57-263 HV-57-264 HV-57-266 HV-57-269	MOTOR OPERATED VALVES	PROCURED AND INSTALLED DIFFERENT VALVE MODELS.	QUALIFIED
D-120	HV-57-212 HV-57-215 HV-57-235 HV-57-247	MOTOR OPERATED VALVES	PROCURED AND INSTALLED DIFFERENT VALVE MODELS.	QUALIFIED

Table 2

LIMERICK GENERATING STATION - UNITS 1 & 2 DIFFERENCES
DYNAMIC QUALIFICATION FOR BOP EQUIPMENT

REFERENCE EQ DOCUMENTATION BINDER	EQUIPMENT TAG NO.	AFFECTED COMPONENT DESCRIPTION	REASON FOR DIFFERENCE FROM UNIT 1	QUALIFICATION STATUS
D-123	HV-41-230A/B HV-41-240 HV-41-267 HV-46-225 HV-46-226 HV-48-2F006A/B HV-52-239 HV-57-210A/B HV-59-251A/B	MOTOR OPERATED VALVES	PROCURED AND INSTALLED DIFFERENT VALVE MODELS.	QUALIFIED
D-124	AO-43-2F019 AO-49-2F025 AO-49-2F026 AO-51-242A/B/C/D AO-55-2F028 AO-55-2F029 AO-57-217 AO-57-218 AO-59-202 AO-59-229A AO-87-242A/B	AIR OPERATED VALVES	PROCURED AND INSTALLED VALVE FROM DIFFERENT MANUFACTURER.	UNDER REVIEW
D-134	VARIOUS	EXCESS FLOW CHECK VALVES	PROCURED AND INSTALLED CHECK VALVES FROM DIFFERENT MANUFACTURER.	QUALIFIED
D-167	10A101 10A102	ATWS SWITCHGEAR	PROVIDED REPLACEMENT FUSE BLOCKS.	QUALIFIED
D-188	20C234 20C245	SAFETY RELATED HVAC PANELS	ADDITION OF NEW DIODE DUE TO PANEL MODIFICATION.	QUALIFIED
D-193	2CZ725 2DZ726	SAFETY RELATED HVAC PANELS	PANELS PROCURED FROM DIFFERENT MANUFACTURER AND INSTALLED IN A DIFFERENT RELATIVE LOCATION, SOME DEVICES ARE DIFFERENT.	DEVICES UNDER REVIEW. PANELS QUALIFIED
D-212	SV-57-233 SV-57-234 SV-57-239	SOLENOID VALVES	PROCURED AND INSTALLED VALVES FROM DIFFERENT MANUFACTURER.	QUALIFIED

TABLE 2

LIMERICK GENERATING STATION - UNITS 1 & 2 DIFFERENCES
DYNAMIC QUALIFICATION FOR BOP EQUIPMENT

REFERENCE EQ DOCUMENTATION BINDER	EQUIPMENT TAG NO.	AFFECTED COMPONENT DESCRIPTION	REASON FOR DIFFERENCE FROM UNIT 1	QUALIFICATION STATUS
	SV-57-241-245 SV-57-246A/B SV-57-247A/B SV-57-259 SV-57-286 SV-57-290,291 SV-57-295 SV-52-239			
D-228	2AZ723 2BZ724	SAFETY RELATED HVAC PANELS	PANELS PROCURED FROM DIFFERENT MANUFACTURER AND INSTALLED IN A DIFFERENT RELATIVE LOCATION. SOME DEVICES ARE DIFFERENT.	DEVICES UNDER REVIEW. PANELS QUALIFIED
GE PANELS	20C201	REMOTE SHUTDOWN VERTICAL BOARD	PROVIDED NEW CONVERTER DUE TO EQUIPMENT MODIFICATION.	QUALIFIED
GE PANELS	2CC661 2DC661	AMMETERS	REPLACEMENT OF AMMETER SCALE RANGE DUE TO MODIFICATION.	QUALIFIED

TABLE 3

DIFFERENCES- ENVIRONMENTAL QUALIFICATION FOR ELECTRICAL EQUIPMENT

03/01/89

EQUIPMENT TAG NO.	COMPONENT DESCRIPTION	EQRR
CABLE-B18=	600 VOLT POWER CABLE	021
CABLE-B20=	600 VOLT POWER CABLE	021
CABLE-B22=	600 VOLT POWER CABLE	021
CABLE-B23=	600 VOLT POWER CABLE	021
CABLE-B24=	600 VOLT POWER CABLE	021
FT-43-2N014A=	FLOW TRANSMITTER	E-1
FT-43-2N014B=	FLOW TRANSMITTER	E-1
FT-43-2N014C=	FLOW TRANSMITTER	E-1
FT-43-2N014D=	FLOW TRANSMITTER	E-1
FT-44-2N012A=	DIFFERENTIAL PRESSURE TRANSMITTER	E-1
FT-44-2N012D=	DIFFERENTIAL PRESSURE TRANSMITTER	E-1
FT-44-2N036A=	DIFFERENTIAL PRESSURE TRANSMITTER	E-1
FT-44-2N036D=	DIFFERENTIAL PRESSURE TRANSMITTER	E-1
FT-44-2N041A=	DIFFERENTIAL PRESSURE TRANSMITTER	E-1
FT-44-2N041D=	DIFFERENTIAL PRESSURE TRANSMITTER	E-1
FT-49-2N003=	FLOW TRANSMITTER	E-1
FT-51-2N015A=	FLOW TRANSMITTER	E-1
FT-51-2N015B=	FLOW TRANSMITTER	E-1
FT-51-2N015C=	FLOW TRANSMITTER	E-1
FT-51-2N015D=	FLOW TRANSMITTER	E-1
FT-52-2N003A=	FLOW TRANSMITTER	E-1
FT-52-2N003B=	FLOW TRANSMITTER	E-1
HV-44-2F100=	MOTOR OPERATOR	100
HV-55-2F105=	MOTOR OPERATOR	105
HV-61-211=	PILOT SOLENOID VALVE	078
HV-61-231=	PILOT SOLENOID VALVE	077
HV-76-296=	PILOT SOLENOID VALVE	145
HV-76-297=	PILOT SOLENOID VALVE	145
LT-42-2N080A=	LEVEL TRANSMITTER	E-1
LT-42-2N080B=	LEVEL TRANSMITTER	E-1
LT-42-2N080C=	LEVEL TRANSMITTER	E-1
LT-42-2N080D=	LEVEL TRANSMITTER	E-1
LT-42-2N081A=	LEVEL TRANSMITTER	E-1
LT-42-2N081B=	LEVEL TRANSMITTER	E-1
LT-42-2N081C=	LEVEL TRANSMITTER	E-1
LT-42-2N081D=	LEVEL TRANSMITTER	E-1
LT-42-2N091A=	LEVEL TRANSMITTER	E-1
LT-42-2N091B=	LEVEL TRANSMITTER	E-1
LT-42-2N091C=	LEVEL TRANSMITTER	E-1
LT-42-2N091D=	LEVEL TRANSMITTER	E-1
LT-42-2N091E=	LEVEL TRANSMITTER	E-1
LT-42-2N091F=	LEVEL TRANSMITTER	E-1
LT-42-2N091G=	LEVEL TRANSMITTER	E-1
LT-42-2N091H=	LEVEL TRANSMITTER	E-1
LT-42-2N095A=	LEVEL TRANSMITTER	E-1
LT-42-2N095C=	LEVEL TRANSMITTER	E-1
LT-42-2N097A=	LEVEL TRANSMITTER	E-1
LT-42-2N402A=	LEVEL TRANSMITTER	E-1
LT-42-2N402B=	LEVEL TRANSMITTER	E-1
LT-42-2N402E=	LEVEL TRANSMITTER	E-1
LT-42-2N402F=	LEVEL TRANSMITTER	E-1
LT-42-215A=	PRESSURE TRANSMITTER	E-1

TABLE 3

DIFFERENCES- ENVIRONMENTAL QUALIFICATION FOR ELECTRICAL EQUIPMENT

03/01/89

EQUIPMENT TAG NO.	COMPONENT DESCRIPTION	EQRR
LT-42-215B=	PRESSURE TRANSMITTER	E-1
PDT-40-2N054=	DIFFERENTIAL PRESSURE TRANSMITTER	E-1
PDT-41-2N086A=	DIFFERENTIAL PRESSURE TRANSMITTER	E-1
PDT-41-2N086B=	DIFFERENTIAL PRESSURE TRANSMITTER	E-1
PDT-41-2N086C=	DIFFERENTIAL PRESSURE TRANSMITTER	E-1
PDT-41-2N086D=	DIFFERENTIAL PRESSURE TRANSMITTER	E-1
PDT-41-2N087A=	DIFFERENTIAL PRESSURE TRANSMITTER	E-1
PDT-41-2N087B=	DIFFERENTIAL PRESSURE TRANSMITTER	E-1
PDT-41-2N087C=	DIFFERENTIAL PRESSURE TRANSMITTER	E-1
PDT-41-2N087D=	DIFFERENTIAL PRESSURE TRANSMITTER	E-1
PDT-41-2N088A=	DIFFERENTIAL PRESSURE TRANSMITTER	E-1
PDT-41-2N088B=	DIFFERENTIAL PRESSURE TRANSMITTER	E-1
PDT-41-2N088C=	DIFFERENTIAL PRESSURE TRANSMITTER	E-1
PDT-41-2N088D=	DIFFERENTIAL PRESSURE TRANSMITTER	E-1
PDT-41-2N089A=	DIFFERENTIAL PRESSURE TRANSMITTER	E-1
PDT-41-2N089B=	DIFFERENTIAL PRESSURE TRANSMITTER	E-1
PDT-41-2N089C=	DIFFERENTIAL PRESSURE TRANSMITTER	E-1
PDT-41-2N089D=	DIFFERENTIAL PRESSURE TRANSMITTER	E-1
PDT-49-2N057A=	DIFFERENTIAL PRESSURE TRANSMITTER	E-1
PDT-51-2N058A=	DIFFERENTIAL PRESSURE TRANSMITTER	E-1
PDT-51-2N058B=	DIFFERENTIAL PRESSURE TRANSMITTER	E-1
PDT-51-2N058C=	DIFFERENTIAL PRESSURE TRANSMITTER	E-1
PDT-51-2N058D=	DIFFERENTIAL PRESSURE TRANSMITTER	E-1
PDT-55-2N057B=	DIFFERENTIAL PRESSURE TRANSMITTER	E-1
PDT-55-2N057D=	DIFFERENTIAL PRESSURE TRANSMITTER	E-1
PT-40-2N056=	PRESSURE TRANSMITTER	E-1
PT-42-2N078A=	PRESSURE TRANSMITTER	E-1
PT-42-2N078B=	PRESSURE TRANSMITTER	E-1
PT-42-2N078C=	PRESSURE TRANSMITTER	E-1
PT-42-2N078D=	PRESSURE TRANSMITTER	E-1
PT-42-2N090C=	PRESSURE TRANSMITTER	E-1
PT-42-2N090G=	PRESSURE TRANSMITTER	E-1
PT-42-2N090J=	PRESSURE TRANSMITTER	E-1
PT-42-2N094A=	PRESSURE TRANSMITTER	E-1
PT-49-2N050=	PRESSURE TRANSMITTER	E-1
PT-50-2N053=	PRESSURE TRANSMITTER	E-1
PT-50-2N055G=	PRESSURE TRANSMITTER	E-1
PT-59-203A=	PRESSURE TRANSMITTER	E-1
PT-59-203B=	PRESSURE TRANSMITTER	E-1
PT-59-252A=	PRESSURE TRANSMITTER	E-1
PT-59-252B=	PRESSURE TRANSMITTER	E-1
SEAL-202(II)=	ELECTRIC CONDUIT SEAL	202
SV-26-290A=	SOLENOID VALVE	212
SV-26-290B=	SOLENOID VALVE	212
SV-26-290C=	SOLENOID VALVE	212
SV-26-290D=	SOLENOID VALVE	212
SV-52-239=	SOLENOID VALVE	212
SV-57-232=	SOLENOID VALVE	212
SV-57-233=	SOLENOID VALVE	212
SV-57-234=	SOLENOID VALVE	212
SV-57-239=	SOLENOID VALVE	212
SV-57-241=	SOLENOID VALVE	212

TABLE 3

DIFFERENCES- ENVIRONMENTAL QUALIFICATION FOR ELECTRICAL EQUIPMENT

03/01/89

EQUIPMENT TAG NO.	COMPONENT DESCRIPTION	EQRR
SV-57-242=	SOLENOID VALVE	212
SV-57-243=	SOLENOID VALVE	212
SV-57-244=	SOLENOID VALVE	212
SV-57-245=	SOLENOID VALVE	212
SV-57-246A=	SOLENOID VALVE	212
SV-57-246B=	SOLENOID VALVE	212
SV-57-247A=	SOLENOID VALVE	212
SV-57-247B=	SOLENOID VALVE	212
SV-57-250=	SOLENOID VALVE	212
SV-57-259=	SOLENOID VALVE	212
SV-57-272=	SOLENOID VALVE	212
SV-57-273=	SOLENOID VALVE	212
SV-57-276=	SOLENOID VALVE	212
SV-57-277=	SOLENOID VALVE	212
SV-57-281=	SOLENOID VALVE	212
SV-57-283=	SOLENOID VALVE	212
SV-57-286=	SOLENOID VALVE	212
SV-57-290=	SOLENOID VALVE	212
SV-57-291=	SOLENOID VALVE	212
SV-57-295=	SOLENOID VALVE	212
SV-59-250A=	SOLENOID VALVE	212
SV-59-250B=	SOLENOID VALVE	212
SV-59-252A=	SOLENOID VALVE	212
SV-59-252B=	SOLENOID VALVE	212
20X203=	TRANSFORMER	015
20X204=	TRANSFORMER	015

Attachment 1

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 021 REVIEWED BY: WJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: CLASS 1E POWER INTERFACES

PLANT ID: CABLE-B18=

COMPONENT: 600 VOLT POWER CABLE
ASSOC COMP: N/A
ASSOC COMP: N/A

MANUFACTU: ROCKBESTOS
ASSOC MANF: N/A
ASSOC MANF: N/A

SERVICE: VARIOUS SAFETY SYSTEMS

FUNCTION: ELECTRICAL POWER OR CONTROL SIGNAL TRANSMISSION FOR NORMAL AND ACCIDENT OPERATION.

ACCY: SPEC: N/A
DEMON: N/A
REF: N/A

MODEL NO.: 1/C #2/0
ASSOC M/N: XLPE INS.
ASSOC M/N:

SERIAL NO: N/A
ASSOC S/N: N/A
ASSOC S/N: N/A

LOCATION: SEC CONT

RACK/PANEL: N/A

ASSOC. DWG: N/A

PO NO: E-28B

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		SPLICES: EQRR 169,194 LUGS: EQRR 171 TERM. BLKS: EQRR 170
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-21	TEST & ANAL.		
TEMPERATURE (F)	311	341	M-171	E-21	TEST & ANAL.		MAINTENANCE REQUIREMENTS: NONE
PRESSURE (PSIA)	24.6	121.7	M-171	E-21	TEST		
RELATIVE HUMIDITY (%)	100	100	M-171	E-21	TEST		REF-38
RADIATION	7.28E7 G 1.38E6 B	1.84E8	M-171	E-21	TEST		REMARKS: SPECIFIED ENVIRONMENTAL PARAMETERS ARE WORST CASE BASED UPON ANALYSIS OF ALL APPLICABLE LOCATIONS.
AGING	40 YRS.	40 YRS.	N/A	E-21	TEST		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 021 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: CLASS 1E POWER INTERFACES ACCY: SPEC: N/A LOCATION: SEC CONT

DEMON: N/A

PLANT ID: CABLE-B20= REF: N/A RACK/PANEL: N/A

COMPONENT: 600 VOLT POWER CABLE MODEL NO.: 1/C #4/0

ASSOC COMP: N/A ASSOC M/N: XLPE INS. ASSOC. DWG: N/A

ASSOC COMP: N/A ASSOC M/N:

MANUFACTU: ROCKBESTOS SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: VARIOUS SAFETY SYSTEMS.

PO NO: E-28B

FUNCTION: ELECTRICAL POWER OR CONTROL SIGNAL TRANSMISSION FOR NORMAL AND ACCIDENT OPERATION.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		SPLICES: EQRR 169,194 LUGS: EQRR 171 TERM. BLKS: EQRR 170
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-21	TEST & ANAL.		
TEMPERATURE (F)	311	341	M-171	E-21	TEST & ANAL.		MAINTENANCE REQUIREMENTS: NONE
PRESSURE (PSIA)	24.6	121.7	M-171	E-21	TEST		
RELATIVE HUMIDITY (%)	100	100	M-171	E-21	TEST		REF-38
RADIATION	7.28E7 G 1.38E6 B	1.84E8	M-171	E-21	TEST		REMARKS: SPECIFIED ENVIRONMENTAL PARAMETERS ARE WORST CASE BASED UPON ANALYSIS OF ALL APPLICABLE LOCATIONS.
AGING	40 YRS.	40 YRS.	N/A	E-21	TEST		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 | PREPARED BY: DJT | DATE: 02/22/89 | REVISION DATE: 02/23/89

EQRR: 021 | REVIEWED BY: MJC | DATE: 02/23/89 | REVISION NO.: 0.0

SYSTEM: CLASS 1E POWER INTERFACES | ACCY: SPEC: N/A | LOCATION: SEC CONT

PLANT ID: CABLE-B22= | DEMON: N/A | REF: N/A | RACK/PANEL: N/A

COMPONENT: 600 VOLT POWER CABLE | MODEL NO.: 1/C 350 KCMIL

ASSOC COMP: N/A | ASSOC M/N: XLPE INS. | ASSOC. DWG: N/A

ASSOC COMP: N/A | ASSOC M/N:

MANUFACTU: ROCKBESTOS | SERIAL NO: N/A

ASSOC MANF: N/A | ASSOC S/N: N/A

ASSOC MANF: N/A | ASSOC S/N: N/A

SERVICE: VARIOUS SAFETY SYSTEMS | PO NO: E-28B

FUNCTION: ELECTRICAL POWER OR CONTROL SIGNAL TRANSMISSION FOR NORMAL AND ACCIDENT OPERATION. | SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		SPLICES: EQRR 169,194
							LUGS: EQRR 171
							TERM. BLKS: EQRR 170
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-21	TEST & ANAL.		
TEMPERATURE (F)	120	341	M-171	E-21	TEST & ANAL.		MAINTENANCE REQUIREMENTS: NONE
PRESSURE (PSIA)	14.7	121.7	M-171	E-21	TEST		
RELATIVE HUMIDITY (%)	90	100	M-171	E-21	TEST		REF-38
RADIATION	7.28E7 G 1.38E6 B	1.84E8	M-171	E-21	TEST		REMARKS: SPECIFIED ENVIRONMENTAL PARAMETERS ARE WORST CASE BASED UPON ANALYSIS OF ALL APPLICABLE LOCATIONS.
AGING	40 YRS	40 YRS.	N/A	E-21	TEST		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 | PREPARED BY: DJT | DATE: 02/22/89 | REVISION DATE: 02/23/89

EQRR: 021 | REVIEWED BY: MJC | DATE: 02/23/89 | REVISION NO.: 0.0

SYSTEM: CLASS 1E POWER INTERFACES | ACCY: SPEC: N/A | DEMON: N/A | REF: N/A | LOCATION: SEC CONT

PLANT ID: CABLE-B23= | RACK/PANEL: N/A

COMPONENT: 600 VOLT POWER CABLE | MODEL NO.: 1/C #500 KCMIL

ASSOC COMP: N/A | ASSOC M/N: XLPE INS. | ASSOC. DWG: N/A

ASSOC COMP: N/A | ASSOC M/N:

MANUFACTU: ROCKBESTOS | SERIAL NO: N/A

ASSOC MANF: N/A | ASSOC S/N: N/A

ASSOC MANF: N/A | ASSOC S/N: N/A

SERVICE: VARIOUS SAFETY SYSTEMS

PO NO: E-28B

FUNCTION: ELECTRICAL POWER OR CONTROL SIGNAL TRANSMISSION FOR NORMAL AND ACCIDENT OPERATION.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		SPLICES: EQRR 169,194 LUGS: EQRR 171 TERM. BLKS: EQRR 170
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-21	TEST & ANAL.		
TEMPERATURE (F)	311	341	M-171	E-21	TEST & ANAL.		MAINTENANCE REQUIREMENTS: NONE
PRESSURE (PSIA)	24.6	121.7	M-171	E-21	TEST		
RELATIVE HUMIDITY (%)	100	100	M-171	E-21	TEST		REF-38
RADIATION	7.28E7 G 1.38E6 B	1.84E8	M-171	E-21	TEST		REMARKS: SPECIFIED ENVIRONMENTAL PARAMETERS ARE WORST CASE BASED UPON ANALYSIS OF ALL APPLICABLE LOCATIONS.
AGING	40 YRS	40 YRS.	N/A	E-21	TEST		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 021 REVIEWED BY: WJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: CLASS 1E POWER INTERFACES ACCY: SPEC: N/A LOCATION: SEC CONT

DEMON: N/A

PLANT ID: CABLE-B24= REF: N/A RACK/PANEL: N/A

COMPONENT: 600 VOLT POWER CABLE MODEL NO.: 1/C #750 KCMIL

ASSOC COMP: N/A ASSOC M/N: XLPE INS. ASSOC. DWG: N/A

ASSOC COMP: N/A ASSOC M/N:

MANUFACTU: ROCKBESTOS SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: VARIOUS SAFETY SYSTEMS

PO NO: E-28B

FUNCTION: ELECTRICAL POWER OR CONTROL SIGNAL TRANSMISSION FOR NORMAL AND ACCIDENT OPERATION.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		SPLICES: EQRR 169,194
							LUGS: EQRR 171
							TERM. BLKS: EQRR 170
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-21	TEST & ANAL.		
TEMPERATURE (F)	311	341	M-171	E-21	TEST & ANAL.		MAINTENANCE REQUIREMENTS: NONE
PRESSURE (PSIA)	24.6	121.7	M-171	E-21	TEST		
RELATIVE HUMIDITY (%)	100	100	M-171	E-21	TEST		REF-38
RADIATION	7.28E7 G 1.38E6 B	1.84E8	M-171	E-21	TEST		REMARKS: SPECIFIED ENVIRONMENTAL PARAMETERS ARE WORST
AGING	40 YRS.	40 YRS.	N/A	E-21	TEST		CASE BASED UPON ANALYSIS OF ALL APPLICABLE LOCATIONS.

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: REACTOR RECIRCULATION

PLANT ID: FT-43-2N014A=

COMPONENT: FLOW TRANSMITTER
ASSOC COMP: N/A
ASSOC COMP: N/A

MANUFACTU: ROSEMOUNT
ASSOC MANF: N/A
ASSOC MANF: N/A

SERVICE: RECIRCULATION LOOP

FUNCTION: PROVIDES FLOW SIGNAL TO FY-43-2K608A AND A2731 FOR RECIRCULATION LINE FLOW INDICATION AND FOR APRM CALCULATION.

ACCY: SPEC: +/-.5% CAL SPAN
DEMON: +/-.11% CAL SPAN
REF: E-1

MODEL NO.: 1153-SERIES B
ASSOC M/N: N/A
ASSOC M/N: N/A

SERIAL NO: N/A
ASSOC S/N: N/A
ASSOC S/N: N/A

LOCATION: ROOM 370

RACK/PANEL: N/A

ASSOC. DWG: N/A

PO NO: 8031-M-206

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-REPLACE COVER O-RING WHEN DISTURBED ARO-RETORQUE COVER TO 200 +/-20 IN. LBS. RFO-CHECK CALIBRATION
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		
RADIATION	4.15E6	2.44E7	M-171	E-1	TEST		REMARKS:
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		USE DON CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 | PREPARED BY: DJT | DATE: 02/22/89 | REVISION DATE: 02/23/89

EQRR: E-1 | REVIEWED BY: MJC | DATE: 02/23/89 | REVISION NO.: 0.0

SYSTEM: REACTOR RECIRCULATION | ACCY: SPEC: +/-.5% CAL SPAN | LOCATION: ROOM 370

DEMON: +/-.11% CAL SPAN

PLANT ID: FT-43-2N014B= | REF: E-1 | RACK/PANEL: N/A

COMPONENT: FLOW TRANSMITTER | MODEL NO.: 1153-SERIES B

ASSOC COMP: N/A | ASSOC M/N: N/A | ASSOC. DWG: N/A

ASSOC COMP: N/A | ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT | SERIAL NO: N/A

ASSOC MANF: N/A | ASSOC S/N: N/A

ASSOC MANF: N/A | ASSOC S/N: N/A

SERVICE: RECIRCULATION LOOP

PO NO: 8031-M-206

FUNCTION: PROVIDES FLOW SIGNAL TO FY-43-2K608B FOR RECIRCULATION LINE FLOW INDICATION AND FOR APRM CALCULATION.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-REPLACE COVER O-RING WHEN DISTURBED
RELATIVE HUMIDITY (%)	90	90	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RADIATION	4.15E6	2.44E7	M-171	E-1	TEST		RFO-CHECK CALIBRATION
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

ERR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: REACTOR RECIRCULATION

PLANT ID: FT-43-2N014C=

COMPONENT: FLOW TRANSMITTER
ASSOC COMP: N/A
ASSOC COMP: N/A

MANUFACTU: ROSEMOUNT
ASSOC MANF: N/A
ASSOC MANF: N/A

SERVICE: RECIRCULATION LOOP

FUNCTION: PROVIDES FLOW SIGNAL TO FY-43-2K608C FOR RECIRCULATION LINE FLOW INDICATION AND FOR APRM CALCULATION.

ACCY: SPEC: +/-.5% CAL SPAN
DEMON: +/-.11% CAL SPAN
REF: E-1

MODEL NO.: 1153-SERIES B
ASSOC M/N: N/A
ASSOC M/N: N/A

SERIAL NO: N/A
ASSOC S/N: N/A
ASSOC S/N: N/A

LOCATION: ROOM 370

RACK/PANEL: N/A

ASSOC. DWG: N/A

PO NO: 8031-M-206

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	90	M-171	E-1	TEST		RFO-CHECK CALIBRATION
RADIATION	4.15E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: REACTOR RECIRCULATION

ACCY: SPEC: +/-.5% CAL SPAN
DEMON: +/-.11% CAL SPAN
REF: E-1

LOCATION: ROOM 370

PLANT ID: FT-43-2N014D=

RACK/PANEL: N/A

COMPONENT: FLOW TRANSMITTER
ASSOC COMP: N/A
ASSOC COMP: N/A

MODEL NO.: 1153-SERIES B
ASSOC M/N: N/A
ASSOC M/N: N/A

ASSOC. DWG: N/A

MANUFACTU: ROSEMOUNT
ASSOC MANF: N/A
ASSOC MANF: N/A

SERIAL NO: N/A
ASSOC S/N: N/A
ASSOC S/N: N/A

SERVICE: RECIRCULATION LOOP

PO NO: 8031-M-206

FUNCTION: PROVIDES FLOW SIGNAL TO FY-43-2K608D AND A2732 FOR RECIRCULATION LINE FLOW INDICATION AND FOR APRM CALCULATION.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION
RADIATION	4.15E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DON CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: REACTOR WATER CLEANUP

PLANT ID: FT-44-2N012A=

COMPONENT: DIFFERENTIAL PRESSURE TRANSMITTER

ASSOC COMP: N/A

ASSOC COMP: N/A

MANUFACTU: ROSEMOUNT

ASSOC MANF: N/A

ASSOC MANF: N/A

SERVICE: REACTOR WATER CLEANUP DISCHARGE FLOW (BLOW DOWN FLOW).

FUNCTION: PROVIDES SIGNAL TO FY-44-2K605A FOR PRIMARY CONTAINMENT ISOLATION. RWCU LINE BREAK.

ACCY: SPEC: +/-.5% CAL SPAN
DEMON: +/-.11% CAL SPAN
REF: E-1

MODEL NO.: 1153-SERIES B

ASSOC M/N: N/A

ASSOC M/N: N/A

SERIAL NO: N/A

ASSOC S/N: N/A

ASSOC S/N: N/A

LOCATION: ROOM 580A

RACK/PANEL: N/A

ASSOC. DWG: N/A

PO NO: 8031-M-206

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED ARO-RETORQUE COVER TO 200 +/-20 IN. LBS. RFO-CHECK CALIBRATION
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		REF-800.
RADIATION	3.95E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: REACTOR WATER CLEANUP ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 580A
DEMON: +/-.11% CAL SPAN
PLANT ID: FT-44-2N012D= REF: E-1 RACK/PANEL: N/A

COMPONENT: DIFFERENTIAL PRESSURE TRANSMITTER MODEL NO.: 1153-SERIES B
ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A
ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A
ASSOC MANF: N/A ASSOC S/N: N/A
ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: REACTOR WATER CLEANUP DISCHARGE FLOW (BLOW DOWN FLOW). PO NO: 8031-M-206

FUNCTION: PROVIDES SIGNAL TO FY-44-2K605D FOR PRIMARY CONTAINMENT ISOLATION. RHCU LINE BREAK. SUBMERGENCE: N/A

CHEMICAL SPRAY:

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
RADIATION	3.95E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DON CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: PLANT LEAK DETECTION

PLANT ID: FT-44-2N036A=

COMPONENT: DIFFERENTIAL PRESSURE TRANSMITTER
ASSOC COMP: N/A
ASSOC COMP: N/A

MANUFACTU: ROSEMOUNT
ASSOC MANF: N/A
ASSOC MANF: N/A

SERVICE: REACTOR WATER CLEAN-UP INLET.

FUNCTION: TRANSMITS SIGNAL TO FY-44-2K602A AND A2718 FOR PRIMARY CONTAINMENT ISOLATION. RWCU LINE BREAK.

ACCY: SPEC: +/-.5% CAL SPAN
DEMON: +/-.11% CAL SPAN
REF: E-1

MODEL NO.: 1153-SERIES B
ASSOC M/N: N/A
ASSOC M/N: N/A

SERIAL NO: N/A
ASSOC S/N: N/A
ASSOC S/N: N/A

LOCATION: ROOM 574
RACK/PANEL: N/A
ASSOC. DWG: N/A
PO NO: 8031-M-206
SUBMERGENCE: N/A
CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD	
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST	
TEMPERATURE (F)	120	318	M-171	E-1	TEST	
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST	
RELATIVE HUMIDITY (%)	90	90	M-171	E-1	TEST	
RADIATION	3.7E66	2.44E7	M-171	E-1	TEST	
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS	

INTERFACES:

MAINTENANCE REQUIREMENTS:
ARO-REPLACE COVER O-RING WHEN DISTURBED
ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RFO-CHECK CALIBRATION
REF-800.

REMARKS:
USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQMR: E-1 REVIEWED BY: WJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: PLANT LEAK DETECTION ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 574
DEMON: +/-.11% CAL SPAN
PLANT ID: FT-44-2N036D= REF: E-1 RACK/PANEL: N/A

COMPONENT: DIFFERENTIAL PRESSURE TRANSMITTER MODEL NO.: 1153-SERIES B
ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A
ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A
ASSOC MANF: N/A ASSOC S/N: N/A
ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: REACTOR WATER CLEAN-UP INLET. PO NO: 8031-M-206

FUNCTION: PROVIDES SIGNAL TO FY-44-2K602D FOR PRIMARY CONTAINMENT ISOLATION. RWCU LINE BREAK. SUBMERGENCE: N/A
CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS:
							ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
							RFO-CHECK CALIBRATION
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		REF-800.
RADIATION	3.7E66	2.44E7	M-171	E-1	TEST		REMARKS:
							USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: HJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER VESSEL INSTRUMENTATION

ACCY: SPEC: +/-.5% CAL SPAN
DEMON: +/-.11% CAL SPAN
REF: E-1

LOCATION: ROOM 475

PLANT ID: LT-42-2N080A=

RACK/PANEL: N/A

COMPONENT: LEVEL TRANSMITTER
ASSOC COMP: N/A
ASSOC COMP: N/A

MODEL NO.: 1153-SERIES B
ASSOC M/N: N/A
ASSOC M/N: N/A

ASSOC. DWG: N/A

MANUFACTU: ROSEMOUNT
ASSOC MANF: N/A
ASSOC MANF: N/A

SERIAL NO: N/A
ASSOC S/N: N/A
ASSOC S/N: N/A

SERVICE: REACTOR VESSEL WATER LEVEL.

PO NO: 8031-M-206

FUNCTION: TRANSMITS RPV WATER LEVEL SIGNAL TO LIS-42-2N680A FOR RPS AND NUCLEAR STEAM SUPPLY SHUTOFF SYSTEM INITIATION, LOCA AND ALL LINE BREAKS.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: PLANT LEAK DETECTION

PLANT ID: FT-44-2N041A=

COMPONENT: DIFFERENTIAL PRESSURE TRANSMITTER
ASSOC COMP: N/A
ASSOC COMP: N/A

MANUFACTU: ROSEMOUNT
ASSOC MANF: N/A
ASSOC MANF: N/A

SERVICE: REACTOR WATER CLEAN-UP DISCHARGE.

FUNCTION: TRANSMITS SIGNAL TO FY-44-2K603A FOR PRIMARY CONTAINMENT ISOLATION. RWCU LINE BREAK.

ACCY: SPEC: +/-.5% CAL SPAN
DEMON: +/-.11% CAL SPAN
REF: E-1

MODEL NO.: 1153-SERIES B
ASSOC M/N: N/A
ASSOC M/N: N/A

SERIAL NO: N/A
ASSOC S/N: N/A
ASSOC S/N: N/A

LOCATION: ROOM 580A

RACK/PANEL: N/A

ASSOC. DWG: N/A

PO NO: 8031-M-206

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	90	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
RADIATION	3.95E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DON CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: HJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: PLANT LEAK DETECTION
ACCY: SPEC: +/-.5% CAL SPAN
DEMON: +/-.11% CAL SPAN
REF: E-1
LOCATION: ROOM 580A

PLANT ID: FT-44-2N041D=
RACK/PANEL: N/A

COMPONENT: DIFFERENTIAL PRESSURE TRANSMITTER
MODEL NO.: 1153-SERIES B
ASSOC COMP: N/A
ASSOC M/N: N/A
ASSOC. DWG: N/A
ASSOC COMP: N/A
ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT
SERIAL NO: N/A
ASSOC MANF: N/A
ASSOC S/N: N/A
ASSOC MANF: N/A
ASSOC S/N: N/A

SERVICE: REACTOR WATER CLEN-UP DISCHARGE.
PO NO: 8031-M-206

FUNCTION: TRANSMITS SIGNAL TO FY-44-2K603D FOR PRIMARY CONTAINMENT ISOLATION. RWCU LINE BREAK.
SUBMERGENCE: N/A
CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	90	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
RADIATION	3.95E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 | PREPARED BY: DJT | DATE: 02/22/89 | REVISION DATE: 02/23/89

EQRR: E-1 | REVIEWED BY: MJC | DATE: 02/23/89 | REVISION NO.: 0.0

SYSTEM: REACTOR CORE ISOLATION COOLING

ACCY: SPEC: +/-.5% CAL SPAN
DEMON: +/-.11% CAL SPAN
REF: E-1

LOCATION: ROOM 279

PLANT ID: FT-49-2N003=

RACK/PANEL: N/A

COMPONENT: FLOW TRANSMITTER
ASSOC COMP: N/A
ASSOC COMP: N/A

MODEL NO.: 1153-SERIES B
ASSOC M/N: N/A
ASSOC M/N: N/A

ASSOC. DWG: N/A

MANUFACTU: ROSEMOUNT
ASSOC MANF: N/A
ASSOC MANF: N/A

SERIAL NO: N/A
ASSOC S/N: N/A
ASSOC S/N: N/A

SERVICE: RCIC PUMP DISCHARGE.

PO NO: 8031-M-206

FUNCTION: TRANSMITS SIGNAL TO FY-49-2K601 FOR CONTROL ROOM INDICATION. AND FLOW CONTROL. ALSO TO FY-C61-2K001 FOR REMOTE SHUTDOWN INDICATION AND FLOW CONTROL.
HELB

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		CABLE: EQRR 22
OPERATING TIME	6 HRS.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION 33.22 YRS-REPLACE SENSING MODULE.---REF-216,626,627.
RADIATION	3.7E66	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

RAD SPEC FOR HELB ONLY

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: RESIDUAL HEAT REMOVAL ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 376

DEMON: +/-.11% CAL SPAN

PLANT ID: FT-51-2N015A= REF: E-1 RACK/PANEL: N/A

COMPONENT: FLOW TRANSMITTER MODEL NO.: 1153-SERIES B

ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: RHR DISCHARGE LINE FLOW.

PO NO: 8031-M-206

FUNCTION: TRANSMITS SIGNAL TO FY-51-2K600A.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-1	TEST & ANAL.		
TEMPERATURE (F)	264	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	16.1	87.7	M-171	E-1	TEST		ARO-REPLACE COVER O-RING WHEN DISTURBED
RELATIVE HUMIDITY (%)	100	100	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RADIATION	5.4E6	2.44E7	M-171	E-1	TEST		RFO-CHECK CALIBRATION 33.22 YRS-REPLACE SENSING MODULE.---REF-151,634,635
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS

DEFICIENCY RESOLUTION:

RG 1.97 CAT 2

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIENED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: RESIDUAL HEAT REMOVAL ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 376

DEMON: +/-.11% CAL SPAN

PLANT ID: FT-51-2N015B= REF: E-1 RACK/PANEL: N/A

COMPONENT: FLOW TRANSMITTER MODEL NO.: 1153-SERIES B

ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: RHR DISCHARGE LINE FLOW.

PO NO: 8031-M-206

FUNCTION: TRANSMITS SIGNAL TO FY-51-2K600B.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-1	TEST & ANAL.		
TEMPERATURE (F)	264	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	16.1	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	100	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION 33.22 YRS- REPLACE SENSING MODULE.---REF-151,634,635.
RADIATION	5.4E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DON CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

RG 1.97 CAT 2

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: RESIDUAL HEAT REMOVAL

ACCY: SPEC: +/-.5% CAL SPAN
DEMON: +/-.11% CAL SPAN
REF: E-1

LOCATION: ROOM 370

PLANT ID: FT-51-2N015C=

RACK/PANEL: N/A

COMPONENT: FLOW TRANSMITTER
ASSOC COMP: N/A
ASSOC COMP: N/A

MODEL NO.: 1153-SERIES B
ASSOC M/N: N/A
ASSOC M/N: N/A

ASSOC. DWG: N/A

MANUFACTU: ROSEMOUNT
ASSOC MANF: N/A
ASSOC MANF: N/A

SERIAL NO: N/A
ASSOC S/N: N/A
ASSOC S/N: N/A

SERVICE: RHR DISCHARGE LINE FLOW.

PO NO: 8031-M-206

FUNCTION: TRANSMITS SIGNAL TO FY-51-2K600C.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-1	TEST & ANAL.		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION 33.22 YRS- REPLACE SENSING MODULE.---REF-151,634,635.
RADIATION	4.15E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

RG 1.97 CAT 2

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: RESIDUAL HEAT REMOVAL ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 370

DEMON: +/-.11% CAL SPAN

PLANT ID: FT-51-2N015D= REF: E-1 RACK/PANEL: N/A

COMPONENT: FLOW TRANSMITTER MODEL NO.: 1153-SERIES B

ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: RHR DISCHARGE FLOW.

PO NO: 8031-M-206

FUNCTION: TRANSMITS SIGNAL TO FY-51-2K600D.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		CONDUIT SEAL REQUIRED: LATER
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-1	TEST & ANAL.		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	16.1 (C)	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	100 (C)	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION 14.96 YRS-REPLACE SENSING MODULE.-REF-680,681,151.
RADIATION	4.15E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		RG 1.97 CAT 2
DEFICIENCY RESOLUTION:							HELB ENVIRONMENT
							QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: CORE SPRAY ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 370

DEMON: +/-.11% CAL SPAN

PLANT ID: FT-52-2N003A= REF: E-1 RACK/PANEL: N/A

COMPONENT: FLOW TRANSMITTER MODEL NO.: 1153-SERIES B

ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: CORE SPRAY LINE FLOW

PO NO: 8031-M-206

FUNCTION: REQUIRED FOR LOCA, HELB, AND LONG TERM SHUTDOWN COOLING

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-1	TEST & ANAL.		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-REPLACE COVER O-RING WHEN DISTURBED
							ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION 33.22 YRS- REPLACE SENSING MODULE.---REF-151,634,635.
RADIATION	4.15E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 | PREPARED BY: DJT | DATE: 02/22/89 | REVISION DATE: 02/23/89

EQRR: E-1 | REVIEWED BY: WJC | DATE: 02/23/89 | REVISION NO.: 0.0

SYSTEM: CORE SPRAY

ACCY: SPEC: +/-.5% CAL SPAN
DEMON: +/-.11% CAL SPAN
REF: E-1

LOCATION: ROOM 370

PLANT ID: FT-52-2N003B=

RACK/PANEL: N/A

COMPONENT: FLOW TRANSMITTER
ASSOC COMP: N/A
ASSOC COMP: N/A

MODEL NO.: 1153-SERIES B
ASSOC M/N: N/A
ASSOC M/N: N/A

ASSOC. DWG: N/A

MANUFACTU: ROSEMOUNT
ASSOC MANF: N/A
ASSOC MANF: N/A

SERIAL NO: N/A
ASSOC S/N: N/A
ASSOC S/N: N/A

SERVICE: CORE SPRAY LINE FLOW

PO NO: 8031-M-206

FUNCTION: REQUIRED FOR LOCA, HELB, AND LONG TERM SHUTDOWN COOLING

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-1	TEST & ANAL.		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-REPLACE COVER O-RING WHEN DISTURBED ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION 33.22 YRS- REPLACE SENSING BOARDS.---REF-151,634,635
RADIATION	4.15E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 100 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: PLANT LEAK DETECTION ACCY: SPEC: N/A LOCATION: PRI CONT/ZONE 4
DEMON: N/A
PLANT ID: HV-44-2F100= REF: N/A RACK/PANEL: N/A

COMPONENT: MOTOR OPERATOR MODEL NO.: SMB-00-10
ASSOC COMP: VALVE ASSOC M/N: N/A ASSOC. DWG: N/A
ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: LIMITORQUE SERIAL NO: N/A
ASSOC MANF: VELAN ASSOC S/N: N/A
ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: VALVE THROTTLES FLOW BETWEEN RV BOTTOM DRAIN & RHCU DURING STARTUP AND HOT SHUTDOWN. NORMALLY CLOSED. PO NO: 8031-P-107B

FUNCTION: PRESSURE BOUNDARY ONLY, NO ACTIVE S/R FUNCTION. FED FROM CLASS 1E POWER. SUBMERGENCE: N/A

CHEMICAL SPRAY: YES

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		LUGS: EQRR 171 CABLE:EQRR 21 & 22
OPERATING TIME	1 HR.	30 DAYS	M-171	E-100	TEST		
TEMPERATURE (F)	340	340	M-171	E-100	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	58.7	119.7	M-171	E-100	TEST		RFO.INSP. L.S. COMP., ALL TERMINALS,WIRING,VALVE STEM, MAIN GEAR CASE&SHAFT PENETRS 2RFO-MEGGER MOTOR,CLEAN CONTROLS & CONTACTS,CLEAN/LUB
RELATIVE HUMIDITY (%)	100	100	M-171	E-100	TEST		VALVE STEM,INSP. GREASE IN L.S.GEARS
RADIATION	6.4E76	2.04E8	M-171	E-100	TEST		REMARKS:
AGING	40 YRS.	40 YRS.	N/A	E-100	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 105 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: HIGH PRESSURE COOLANT INJECTION

ACCY: SPEC: N/A
DEMON: N/A
REF: N/A

LOCATION: ROOM 587

PLANT ID: HV-55-2F105=

RACK/PANEL: N/A

COMPONENT: MOTOR OPERATOR
ASSOC COMP: VALVE
ASSOC COMP: N/A

MODEL NO.: SMB-1-60
ASSOC M/N: N/A
ASSOC M/N: N/A

ASSOC. DWG: LOC: M-531

MANUFACTU: LIMITORQUE
ASSOC MANF: N/A
ASSOC MANF: N/A

SERIAL NO: N/A
ASSOC S/N: N/A
ASSOC S/N: N/A

SERVICE: HPCI FEEDWATER ALTERNATE VALVE.

PO NO: 8031-P-104B

FUNCTION: NORMALLY CLOSED. VALVE PROVIDES ALTERNATE HPCI PATH TO FEEDWATER LINE. REQUIRED FOR ALL HELBS EXCEPT HPCI HELB.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES: LUGS: EQRR 171 CABLE: EQRR 22
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	6 HRS.	12 HRS.	M-171	E-105	TEST		
TEMPERATURE (F)	120	341	M-171	E-105	TEST		MAINTENANCE REQUIREMENTS: RFO-INSP. L.S. COMPT., ALL TERMINALS,WIRING,VALVE STEM, MAIN GEAR CASE&SHAFT PENETRS 2RFO-MEGGER MOTOR,CLEAN CONTROLS & CONTACTS,CLEAN/LUBE VALVE STEM,INSP. GREASE IN L.S. GEARS.
PRESSURE (PSIA)	14.7	119.7	M-171	E-105	TEST		
RELATIVE HUMIDITY (%)	100	100	M-171	E-105	TEST		
RADIATION	6.51E6	1.00 E7	M-171	E-105	TEST		REMARKS:
AGING	40 YRS.	40 YRS.	N/A	E-105	TEST & ANAL.		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 078 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: EQUIP. & FLOOR DRAINS-LIQUID RADWASTE COLLEC ACCY: SPEC: N/A LOCATION: ROOM 286

DEMON: N/A

PLANT ID: HV-61-211= REF: N/A RACK/PANEL: N/A

COMPONENT: PILOT SOLENOID VALVE MODEL NO.: 206-832-3U

ASSOC COMP: AIR OPERATOR ASSOC M/N: N/A ASSOC. DWG: N/A

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: AUTOMATIC SWITCH COMPANY SERIAL NO: N/A

ASSOC MANF: KIELEY - MUELLER ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: DRYWELL FLOOR DRAIN SUMP OUTBOARD ISOLATION VALVE.
NORMALLY DE-ENERGIZED CLOSED, FAILS CLOSED. PO NO: P-10245

FUNCTION: ISOLATES UPON RV LEVEL 2 TRIP OR HIGH DRYWELL PRESSURE SIGNALS.
REQUIRED FOR LOCA AND ALL HELBS. SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		CABLE: EQRR 22
OPERATING TIME	1 HR.	30 DAYS	M-171	E-78	TEST		
TEMPERATURE (F)	120	450	M-171	E-78	TEST		MAINTENANCE REQUIREMENTS: NONE
PRESSURE (PSIA)	14.7	60.7	M-171	E-78	TEST		
RELATIVE HUMIDITY (%)	90	100	M-171	E-78	TEST		
RADIATION	7.66E5	2.05 E8	M-171	E-78	TEST		REMARKS:
AGING	40 YRS.	40 YRS.	N/A	E-78	TEST & ANAL.		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 | PREPARED BY: DJT | DATE: 02/22/89 | REVISION DATE: 02/23/89

EQRR: 077 | REVIEWED BY: MJC | DATE: 02/23/89 | REVISION NO.: 0.0

SYSTEM: EQUIP. & FLOOR DRAINS-LIQUID RADWASTE COLLEC

ACCY: SPEC: N/A
DEMON: N/A
REF: N/A

LOCATION: ROOM 286

PLANT ID: HV-61-231=

RACK/PANEL: N/A

COMPONENT: PILOT SOLENOID VALVE
ASSOC COMP: AIR OPERATOR
ASSOC COMP: N/A

MODEL NO.: 206-832-3RU
ASSOC M/N: N/A
ASSOC M/N: N/A

ASSOC. DWG: N/A

MANUFACTU: AUTOMATIC SWITCH COMPANY
ASSOC MANF: KIELEY - MUELLER
ASSOC MANF: N/A

SERIAL NO: N/A
ASSOC S/N: N/A
ASSOC S/N: N/A

SERVICE: DRYWELL EQUIPMENT DRAIN TANK OUTBOARD ISOLATION VALVE.
NORMALLY DE-ENERGIZED CLOSED, FAILS CLOSED.

PO NO: P-102

FUNCTION: ISOLATES UPON RV LEVEL 2 TRIP OR HIGH DRYWELL PRESSURE SIGNALS.
REQUIRED FOR LOCA AND ALL HELBS.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		CABLE: EQRR 22
OPERATING TIME	1 HR.	30 DAYS	M-171	E-77	TEST		
TEMPERATURE (F)	120	450	M-171	E-77	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	60.7	M-171	E-77	TEST		
RELATIVE HUMIDITY (%)	90	100	M-171	E-77	TEST		
RADIATION	7.66E5	2.05 E8	M-171	E-77	TEST		REMARKS:
AGING	40 YRS.	40 YRS.	N/A	E-77	TEST & ANAL.		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 145 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: REACTOR ENCLOSURE HVAC - RECIRC. MODE ACCY: SPEC: N/A LOCATION: ROOM 637
DEMON: N/A
PLANT ID: HV-76-296= REF: N/A RACK/PANEL: N/A
N/A
COMPONENT: PILOT SOLENOID VALVE MODEL NO.: NP8316A74E
ASSOC COMP: AIR OPERATOR ASSOC M/N: N/A ASSOC. DWG: N/A
ASSOC COMP: VALVE ASSOC M/N: N/A

MANUFACTU: AUTOMATIC SWITCH COMPANY SERIAL NO: N/A
ASSOC MANF: BETTIS ASSOC S/N: N/A
ASSOC MANF: ALLIS - CHALMERS ASSOC S/N: N/A

SERVICE: REACTOR ENCLOSURE HVAC
PO NO: M-70

FUNCTION: PILOT SOLENOID NORMALLY ENERGIZED CLOSED.
SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A
N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES: LUGS: EQRR 171 CABLE: EQRR 22
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	30 DAYS	M-171	E-145	TEST		
TEMPERATURE (F)	120	346	M-171	E-145	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	124.7	M-171	E-145	TEST		
RELATIVE HUMIDITY (%)	90	100	M-171	E-145	TEST		
RADIATION	6.71E4	2.00 E8	M-171	E-145	TEST		REMARKS:
AGING	40 YRS.	40 YRS.	N/A	E-145	TEST & ANAL.		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 145 REVIEWED BY: WJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: REACTOR ENCLOSURE HVAC - RECIRC. MODE ACCY: SPEC: N/A LOCATION: ROOM 637
DEMON: N/A
PLANT ID: HV-76-297= REF: N/A RACK/PANEL: N/A
N/A
COMPONENT: PILOT SOLENOID VALVE MODEL NO.: NP8316A74E
ASSOC COMP: AIR OPERATOR ASSOC M/N: N/A ASSOC. DMG: N/A
ASSOC COMP: VALVE ASSOC M/N: N/A

MANUFACTU: AUTOMATIC SWITCH COMPANY SERIAL NO: N/A
ASSOC MANF: BETTIS ASSOC S/N: N/A
ASSOC MANF: ALLIS - CHALMERS ASSOC S/N: N/A

SERVICE: REACTOR ENCLOSURE HVAC
PO NO: M-70

FUNCTION: PILOT SOLENOID NORMALLY ENERGIZED
CLOSED.
SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A
N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES: LUGS: EQRR 171 CABLE: EQRR 22
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	30 DAYS	M-171	E-145	TEST		
TEMPERATURE (F)	115	346	M-171	E-145	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	124.7	M-171	E-145	TEST		
RELATIVE HUMIDITY (Z)	90	100	M-171	E-145	TEST		
RADIATION	6.71E4	2.00 E8	M-171	E-145	TEST		REMARKS:
AGING	40 YRS.	40 YRS.	N/A	E-145	TEST & ANAL.		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER VESSEL INSTRUMENTATION ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 475
DEMON: +/-.11% CAL SPAN
PLANT ID: LT-42-2N080B= REF: E-1 RACK/PANEL: N/A

COMPONENT: LEVEL TRANSMITTER MODEL NO.: 1153-SERIES B
ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A
ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A
ASSOC MANF: N/A ASSOC S/N: N/A
ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: REACTOR VESSEL WATER LEVEL.

PO NO: 8031-M-206

FUNCTION: TRANSMITS RPV WATER LEVEL SIGNAL TO LIS-42-2N680B FOR RPS AND NUCLEAR STEAM SUPPLY SHUTOFF SYSTEM INITIATION, LOCA AND ALL LINE BREAKS.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 | PREPARED BY: DJT | DATE: 02/22/89 | REVISION DATE: 02/23/89

EQRR: E-1 | REVIEWED BY: WJC | DATE: 02/23/89 | REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER VESSEL INSTRUMENTATION

ACCY: SPEC: +/-.5% CAL SPAN
DEMON: +/-.11% CAL SPAN
REF: E-1

LOCATION: ROOM 475

PLANT ID: LT-42-2N080C=

RACK/PANEL: N/A

COMPONENT: LEVEL TRANSMITTER
ASSOC COMP: N/A
ASSOC COMP: N/A

MODEL NO.: 1153-SERIES B
ASSOC M/N: N/A
ASSOC M/N: N/A

ASSOC. DWG: N/A

MANUFACTU: ROSEMOUNT
ASSOC MANF: N/A
ASSOC MANF: N/A

SERIAL NO: N/A
ASSOC S/N: N/A
ASSOC S/N: N/A

SERVICE: REACTOR VESSEL WATER LEVEL.

PO NO: 8031-M-206

FUNCTION: TRANSMIT RPV WATER LEVEL SIGNAL TO LIS-42-2N680C FOR RPS AND NUCLEAR STEAM SUPPLY SHUTOFF SYSTEM INITIATION, LOCA AND ALL LINE BREAKS.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-REPLACE COVER O-RING WHEN DISTURBED
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER VESSEL INSTRUMENTATION ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 475
DEMON: +/-.11% CAL SPAN
PLANT ID: LT-42-2N080D= REF: E-1 RACK/PANEL: N/A

COMPONENT: LEVEL TRANSMITTER MODEL NO.: 1153-SERIES B
ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A
ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A
ASSOC MANF: N/A ASSOC S/N: N/A
ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: REACTER VESSEL WATER LEVEL.
PO NO: 8031-M-205

FUNCTION: TRANSMITS RPV WATER LEVEL SIGNAL TO LIS-42-2N680D FOR RPS AND NUCLEAR STEAM SUPPLY SHUTOFF SYSTEM INITIATION, LOCA AND ALL LINE BREAKS.
SUBMERGENCE: N/A
CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		PFO-CHECK CALIBRATION REF-800.
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DON CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 | PREPARED BY: DJT | DATE: 02/22/89 | REVISION DATE: 02/23/89

EQRR: E-1 | REVIEWED BY: WJC | DATE: 02/23/89 | REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER VESSEL INSTRUMENTATION

ACCY: SPEC: +/-.5% CAL SPAN
DEMON: +/-.11% CAL SPAN
REF: E-1

LOCATION: ROOM 475

PLANT ID: LT-42-2N081A=

RACK/PANEL: N/A

COMPONENT: LEVEL TRANSMITTER

MODEL NO.: 1153-SERIES B

ASSOC COMP: N/A

ASSOC M/N: N/A

ASSOC. DWG: N/A

ASSOC COMP: N/A

ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT

SERIAL NO: N/A

ASSOC MANF: N/A

ASSOC S/N: N/A

ASSOC MANF: N/A

ASSOC S/N: N/A

SERVICE: REACTOR VESSEL WATER LEVEL.

PO NO: 8031-M-206

FUNCTION: TRANSMITS RPV WATER LEVEL SIGNAL TO LIS-42-2N681A AND LS-42-1N684A FOR NS4 SYSTEM INITIATION. LOCA AND ALL LINE BREAKS.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST & ANAL.		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION 33.22 YRS- REPLACE SENSING MODULE.---REF-216,626,627.
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER VESSEL INSTRUMENTATION

ACCY: SPEC: +/-.5% CAL SPAN
DEMON: +/-.11% CAL SPAN
REF: E-1

LOCATION: ROOM 475

PLANT ID: LT-42-2N081B=

RACK/PANEL: N/A

COMPONENT: LEVEL TRANSMITTER
ASSOC COMP: N/A
ASSOC COMP: N/A

MODEL NO.: 1153-SERIES B
ASSOC M/N: N/A
ASSOC M/N: N/A

ASSOC. DWG: N/A

MANUFACTU: ROSEMOUNT
ASSOC MANF: N/A
ASSOC MANF: N/A

SERIAL NO: N/A
ASSOC S/N: N/A
ASSOC S/N: N/A

SERVICE: REACTOR VESSEL WATER LEVEL.

PO NO: 8031-M-206

FUNCTION: TRANSMITS RPV WATER LEVEL SIGNAL TO LIS-42-2N681B AND LS-42-2N684B FOR NS4 INITIATION. LOCA AND ALL LINE BREAKS.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 | PREPARED BY: DJT | DATE: 02/22/89 | REVISION DATE: 02/23/89

EQRR: E-1 | REVIEWED BY: MJC | DATE: 02/23/89 | REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER VESSEL INSTRUMENTATION

ACCY: SPEC: +/-.5% CAL SPAN
DEMON: +/-.11% CAL SPAN
REF: E-1

LOCATION: ROOM 475

PLANT ID: LT-42-2N081C=

RACK/PANEL: N/A

COMPONENT: LEVEL TRANSMITTER
ASSOC COMP: N/A
ASSOC COMP: N/A

MODEL NO.: 1153-SERIES B
ASSOC M/N: N/A
ASSOC M/N: N/A

ASSOC. DWG: N/A

MANUFACTU: ROSEMOUNT
ASSOC MANF: N/A
ASSOC MANF: N/A

SERIAL NO: N/A
ASSOC S/N: N/A
ASSOC S/N: N/A

SERVICE: REACTOR VESSEL WATER LEVEL.

PO NO: 8031-M-206

FUNCTION: TRANSMITS RPV WATER LEVEL SIGNAL TO LIS-42-2N681C AND LS-42-2N684C FOR NUCLEAR STEAM SUPPLY SHUTOFF SYSTEM INITIATION LOCA AND ALL LINE BREAKS.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS. RFO-CHECK CALIBRATION
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		REF-800.
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DON CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER VESSEL INSTRUMENTATION ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 475
DEMON: +/-.11% CAL SPAN
PLANT ID: LT-42-2N081D= REF: E-1 RACK/PANEL: N/A

COMPONENT: LEVEL TRANSMITTER MODEL NO.: 1153-SERIES B
ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A
ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A
ASSOC MANF: N/A ASSOC S/N: N/A
ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: REACTOR VESSEL WATER LEVEL.
PO NO: 8031-M-206

FUNCTION: TRANSMITS RPV WATER LEVEL SIGNSL TO LIS-42-2N681D
AND LS-42-2N684D FOR NS4 INITIATION.
LOCA AND ALL LINE BREAKS.
SUBMERGENCE: N/A
CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/23/89 REVISION DATE: 02/23/89

EQ#R: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER VESSEL INSTRUMENTATION ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 475
DEMON: +/-.11% CAL SPAN
PLANT ID: LT-42-2N091A= REF: E-1 RACK/PANEL: N/A

COMPONENT: LEVEL TRANSMITTER MODEL NO.: 1153-SERIES B
ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A
ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A
ASSOC MANF: N/A ASSOC S/N: N/A
ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: REACTOR VESSEL WATER LEVEL.
PO NO: 8031-M-206

FUNCTION: TRANSMITS RPV WATER LEVEL SIGNAL TO LIS-42-2N691A FOR CORE SPRAY (A), RHR (A), AND ADS (A) INITIATION; TO LS-42-2N692A FOR RCIC INITIATION; AND LS-42-2N693A FOR RCIC INITIATION. LOCA AND ALL LINE BREAKS.
SUBMERGENCE: N/A
CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DON CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 | PREPARED BY: DJT | DATE: 02/22/89 | REVISION DATE: 02/23/89

EQRR: E-1 | REVIEWED BY: WJC | DATE: 02/23/89 | REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER VESSEL INSTRUMENTATION

ACCY: SPEC: +/-.5% CAL SPAN
DEMON: +/-.11% CAL SPAN
REF: E-1

LOCATION: ROOM 475

PLANT ID: LT-42-2N091B=

RACK/PANEL: N/A

COMPONENT: LEVEL TRANSMITTER
ASSOC COMP: N/A
ASSOC COMP: N/A

MODEL NO.: 1153-SERIES B
ASSOC M/N: N/A
ASSOC M/N: N/A

ASSOC. DWG: N/A

MANUFACTU: ROSEMOUNT
ASSOC MANF: N/A
ASSOC MANF: N/A

SERIAL NO: N/A
ASSOC S/N: N/A
ASSOC S/N: N/A

SERVICE: REACTOR VESSEL WATER LEVEL.

PO NO: 8031-M-206

FUNCTION: TRANSMITS RPV WATER LEVEL SIGNAL TO LIS-42-2N691B FOR CORE SPRAY (B), AND RHR (B) INITIATION; TO LS-42-2N692B FOR HPCI INITIATION; AND TO AND LS-42-2N693B FOR RCIC INITIATION. LOCA AND ALL LINE BREAKS.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED ARO-RETORQUE COVER TO 200 +/-20 IN. LBS. RFO-CHECK CALIBRATION REF-800.
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DON CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER VESSEL INSTRUMENTATION ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 475
DEMON: +/-.11% CAL SPAN
PLANT ID: LT-42-2N091C= REF: E-1 RACK/PANEL: N/A

COMPONENT: LEVEL TRANSMITTER MODEL NO.: 1153-SEPIES B
ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A
ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A
ASSOC MANF: N/A ASSOC S/N: N/A
ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: REACTOR VESSEL WATER LEVEL.
PO NO: 8031-M-206

FUNCTION: TRANSMITS RPV WATER LEVEL SIGNAL TO LIS-42-2N691C FOR CORE SPRAY (C), RHR (C), AND ADS (C) INITIATION. LOCA AND ALL LINE BREAKS.
SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST & ANAL.		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED ARO-RETORQUE COVER TO 200 +/-20 IN. LBS. RFO-CHECK CALIBRATION 33.22 YRS- REPLACE SENSING MODULE.---REF-2[illegible],626,627.
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	43 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER VESSEL INSTRUMENTATION ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 475

DEMON: +/-.11% CAL SPAN

PLANT ID: LT-42-2N091D= REF: E-1 RACK/PANEL: N/A

COMPONENT: LEVEL TRANSMITTER MODEL NO.: 1153-SERIES B

ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: REACTOR VESSEL WATER LEVEL.

PO NO. 8031-M-206

FUNCTION: TRANSMITS RPV WATER LEVEL SIGNAL TO LIS-42-2N691D FOR CORE SPRAY (D), AND RHR (D) INITIATION, AND LS-42-2N692D FOR HPCI INITIATION. LOCA/HELB

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER VESSEL INSTRUMENTATIJN ACCY:SPEC: +/-.5% CAL SPAN LOCATION: ROOM 475

DEMON: +/-.11% CAL SPAN

PLANT ID: LT-42-2N091E= REF: E-1 RACK/PANEL: N/A

COMPONENT: LEVEL TRANSMITTER MODEL NO.: 1153-SERIES B

ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: REACTOR VESSEL WATER LEVEL.

PO NO: 8031-M-206

FUNCTION: TRANSMITS RPV LEVEL SIGNAL TO LIS-42-2N691E FOR CS(A),RHR(A) ,AND ADS INITIATION. ALSO, LS-42-2N692E FOR RCIC INITIATION LOCA/HELB

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER VESSEL INSTRUMENTATION ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 475
DEMON: +/-.11% CAL SPAN
PLANT ID: LT-42-2N091F= REF: E-1 RACK/PANEL: N/A

COMPONENT: LEVEL TRANSMITTER MODEL NO.: 1153-SERIES B
ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A
ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A
ASSOC MANF: N/A ASSOC S/N: N/A
ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: REACTOR VESSEL WATER LEVEL.
PO NO: 8031-M-206

FUNCTION: TRANSMITS RPV WATER LEVEL SIGNAL TO LIS-42-2N691F FOR CORE SPRAY (B), AND RHR, LS-42-2N693F FOR HPCI INITIATION. LOCA/HELB
SUBMERGENCE: N/A
CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER VESSEL INSTRUMENTATION ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 475

DEMON: +/-.11% CAL SPAN

PLANT ID: LT-42-2N091G= REF: E-1 RACK/PANEL: N/A

COMPONENT: LEVEL TRANSMITTER MODEL NO.: 1153-SERIES B

ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: REACTOR VESSEL WATER LEVEL.

PO NO: 8031-M-206

FUNCTION: TRANSMITS RPV WATER LEVEL SIGNAL TO LIS-42-2N691G FOR CORE SPRAY(C), RHR (C), AND ADS (C) INITIATION. LOCA AND ALL LINE BREAKS.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST & ANAL.		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION 33.22 YRS- REPLACE SENSING MODULE.--REF-216,626,627.
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DON CORNING 55#1 AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER VESSEL INSTRUMENTATION

ACCY: SPEC: +/-.5% CAL SPAN
DEMON: +/-.11% CAL SPAN
REF: E-1

LOCATION: ROOM 475

PLANT ID: LT-42-2N091H=

RACK/PANEL: N/A

COMPONENT: LEVEL TRANSMITTER
ASSOC COMP: N/A
ASSOC COMP: N/A

MODEL NO.: 1153-SERIES B
ASSOC M/N: N/A
ASSOC M/N: N/A

ASSOC. DMG: N/A

MANUFACTU: ROSEMOUNT
ASSOC MANF: N/A
ASSOC MANF: N/A

SERIAL NO: N/A
ASSOC S/N: N/A
ASSOC S/N: N/A

SERVICE: REACTOR VESSEL WATER LEVEL.

PO NO: 8031-M-206

FUNCTION: TRANSMITS RPV WATER LEVEL SIGNAL TO LIS-42-2N691H FOR CORE SPRAY (D), RHR(D) INITIATION, LS-42-2N692 FOR HPCI INITIATION LOCA/HELB

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED ARO-RETORQUE COVER TO 200 +/-20 IN. LBS. RFO-CHECK CALIBRATION
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		REF-800.
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS. ANALYSIS	N/A	E-1	TEST &		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER VESSEL INSTRUMENTATION ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 475
DEMON: +/-.11% CAL SPAN
PLANT ID: LT-42-2N095A= REF: E-1 RACK/PANEL: N/A

COMPONENT: LEVEL TRANSMITTER MODEL NO.: 1153-SERIES B
ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A
ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A
ASSOC MANF: N/A ASSOC S/N: N/A
ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: REACTOR VESSEL WATER LEVEL.
PO NO: 8031-M-206

FUNCTION: TRANSMITS RPV WATER LEVEL SIGNAL TO LIS-42-2N695A FOR ADS (A) INITIATION. LOCA AND ALL LINE BREAKS.
SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DON CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER VESSEL INSTRUMENTATION ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 475
DEMON: +/-.11% CAL SPAN
PLANT ID: LT-42-2N095C= REF: E-1 RACK/PANEL: N/A

COMPONENT: LEVEL TRANSMITTER MODEL NO.: 1153-SERIES B
ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A
ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A
ASSOC MANF: N/A ASSOC S/N: N/A
ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: REACTOR VESSEL WATER LEVEL.

PO NO: 8031-M-206

FUNCTION: TRANSMITS RPV WATER LEVEL SIGNAL TO LIS-42-2N695C FOR ADS (C) INITIATION. LOCA AND ALL LINE BREAKS.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS:
							ARO-REPLACE COVER O-RING
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		WHEN DISTURBED
							ARO-RETORQUE COVER TO
							200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION
							REF-800.
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		REMARKS:
							USE DON CORNING 55M AS
							THREAD LUBRCANT FOR
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		ELECTRONIC HOUSING AND COVERS

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER VESSEL INSTRUMENTATION ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 475
DEMON: +/-.11% CAL SPAN
PLANT ID: LT-42-2N097A= REF: E-1 RACK/PANEL: N/A

COMPONENT: LEVEL TRANSMITTER MODEL NO.: 1153-SERIES B
ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DNG: N/A
ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A
ASSOC MANF: N/A ASSOC S/N: N/A
ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: REACTOR VESSEL WATER LEVEL.
PO NO: 8031-M-206

FUNCTION: TRANSMITS RPV WATER LEVEL SIGNAL TO LIS-42-2N697A
FOR RCIC INITIATION. LOCA AND ALL LINE BREAKS.
SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	87.7	M-17.	E-1	TEST		ARO-REPLACE COVER O-RING WHEN DISTURBED ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		REMARKS:
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
DEFICIENCY RESOLUTION:							QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER VESSEL INSTRUMENTATION ACCY-SPEC: +/-.5% CAL SPAN LOCATION: ROOM 475

DEMON: +/-.11% CAL SPAN

PLANT ID: LT-42-2N402A= REF: E-1 RACK/PANEL: N/A

COMPONENT: LEVEL TRANSMITTER MODEL NO.: 1153-SERIES B

ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: REACTOR VESSEL WATER LEVEL.

PO NO: 8031-M-206

FUNCTION: TRANSMITS RPV WATER LEVEL SIGNAL TO REDUNDANT REACTIVITY CONTROL SYSTEM, ATWS.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	8 DAYS	180 DAYS	M-171	E-1	TEST & ANAL.		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION 33.22 YRS- REPLACE SENSING MODULE.---REF-216,626,627.
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DON CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER VESSEL INSTRUMENTATION ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 475

DEMON: +/-.11% CAL SPAN

PLANT ID: LT-42-2N402B= REF: E-1 RACK/PANEL: N/A

COMPONENT: LEVEL TRANSMITTER MODEL NO.: 1153-SERIES B

ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: REACTOR VESSEL WATER LEVEL.

PO NO: 8031-M-206

FUNCTION: TRANSMITS RPV WATER LEVEL SIGNAL TO REDUNDANT REACTIVITY CONTROL SYSTEM, ATHS.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	8 DAYS	180 DAYS	M-171	E-1	TEST & ANAL.		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-REPLACE COVER O-RING WHEN DISTURBED
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		ARO-RETORQUE COVEP TO 200 +/-20 IN. LBS.
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		RFO-CHECK CALIBRATION 33.22 YRS- REPLACE SENSING MODULE.---REF-216,626,627.
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT 2 DOCKET: 50-353 PREPARED BY: DLT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: WJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER VESSEL INSTRUMENTATION ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 475
DEMON: +/-.11% CAL SPAN
PLANT ID: LT-42-2N402E= REF: E-1 RACK/PANEL: N/A

COMPONENT: LEVEL TRANSMITTER MODEL NO.: 1153-SERIES B
ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A
ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A
ASSOC MANF: N/A ASSOC S/N: N/A
ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: REACTOR VESSEL WATER LEVEL.
PO NO: 8031-M-206

FUNCTION: TRANSMITS RPV WATER LEVEL SIGNAL TO REDUNDANT REACTIVITY CONTROL SYSTEM, ATWS.
SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	8 DAYS	180 DAYS	M-171	E-1	TEST & ANAL.		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION 33.22 YRS- REPLACE SENSING MODULE.---REF-216,626,627.
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: WJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER VESSEL INSTRUMENTATION

ACCY: SPEC: +/-.5% CAL SPAN
DEMON: +/-.11% CAL SPAN
REF: E-1

LOCATION: ROOM 475

PLANT ID: LT-42-2N402F=

RACK/PANEL: N/A

COMPONENT: LEVEL TRANSMITTER
ASSOC COMP: N/A
ASSOC COMP: N/A

MODEL NO.: 1153-SERIES B
ASSOC M/N: N/A
ASSOC M/N: N/A

ASSOC. DWG: N/A

MANUFACTU: ROSEMOUNT
ASSOC MANF: N/A
ASSOC MANF: N/A

SERIAL NO: N/A
ASSOC S/N: N/A
ASSOC S/N: N/A

SERVICE: REACTOR VESSEL WATER LEVEL.

PO NO: 8031-M-206

FUNCTION: TRANSMITS RPV WATER LEVEL SIGNAL TO REDUNDANT REACTIVITY CONTROL SYSTEM, ATHS.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	8 DAYS	180 DAYS	M-171	E-1	TEST & ANAL.		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION 33.22 YRS- REPLACE SENSING MODULE.--REF-216,626,627.
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: HJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER VESSEL INSTRUMENTATION ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 475
DEMON: +/-.11% CAL SPAN
PLANT ID: LT-42-215A= REF: E-1 RACK/PANEL: N/A

COMPONENT: PRESSURE TRANSMITTER MODEL NO.: 1153-SERIES B
ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A
ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A
ASSOC MANF: N/A ASSOC S/N: N/A
ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: RX VESSEL LEVEL WIDE RANGE INDICATION

PO NO: 8031-M-206

FUNCTION: REQUIRED FOR LOCA AND HELB FOR OPERATOR INFORMATION.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-1	TEST & ANAL.		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-REPLACE COVER O-RING WHEN DISTURBED
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		RFO-CHECK CALIBRATION 33.22 YRS- REPLACE SENSING MODULE.---REF-151,634,635
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS

DEFICIENCY RESOLUTION:

RG 1.97

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: HJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER VESSEL INSTRUMENTATION ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 475

DEMON: +/-.11% CAL SPAN

PLANT ID: LT-42-215B= REF: E-1 RACK/PANEL: N/A

COMPONENT: PRESSURE TRANSMITTER MODEL NO.: 1153-SERIES B

ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: RX VESSEL LEVEL WIDE RANGE INDICATION

PO NO: 8031-M-206

FUNCTION: REQUIRED FOR LOCA AND HELB FOR OPERATOR INFORMATION.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-1	TEST & ANAL.		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION 33.22 YRS- REPLACE SENSING MODULE.---REF-151,634,635
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

RG 1.97

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQOR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: MSIV-LEAKAGE CONTROL SYSTEM ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 580

DEMON: +/-.11% CAL SPAN

PLANT ID: PDT-40-2N054= REF: E-1 RACK/PANEL: N/A

COMPONENT: DIFFERENTIAL PRESSURE TRANSMITTER MODEL NO.: 1153-SERIES B

ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

MPL: E32

SERVICE: INBOARD MSIV-LCS

PO NO: 8031-M-206

FUNCTION: TRANSMITS DILUTION AIR DP ACROSS VALVE 2F012 TO PDIS-40-2N654 FOR SYSTEM CONTROL, POST-LOCA.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-1	ANALYSIS		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
RADIATION	3.95E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER

ACCY: SPEC: +/-.5% CAL SPAN
DEMON: +/-.11% CAL SPAN
REF: E-1

LOCATION: ROOM 370

PLANT ID: PDT-41-2N086A=

RACK/PANEL: N/A

COMPONENT: DIFFERENTIAL PRESSURE TRANSMITTER

MODEL NO.: 1153-SERIES B

ASSOC COMP: N/A

ASSOC M/N: N/A

ASSOC. DNG: N/A

ASSOC COMP: N/A

ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT

SERIAL NO: N/A

ASSOC MANF: N/A

ASSOC S/N: N/A

ASSOC MANF: N/A

ASSOC S/N: N/A

SERVICE: MAIN STEAM LINE A. FLOW.

PO NO: 8031-M-206

FUNCTION: TRANSMITS DP SIGNAL FROM MAIN STEAM LINE A VENTURI TO PDIS-42-2N686A, MAIN STEAM LINE BREAK DETECTION.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
RADIATION	4.15E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER ACCY:SPEC: +/-.5% CAL SPAN LOCATION: ROOM 370
DEMON: +/-.11% CAL SPAN
PLANT ID: PDT-41-2N086B= REF: E-1 RACK/PANEL: N/A

COMPONENT: DIFFERENTIAL PRESSURE TRANSMITTER MODEL NO.: 1153-SERIES B
ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A
ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A
ASSOC MANF: N/A ASSOC S/N: N/A
ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: MAIN STEAM LINE A.
FLOW. PO NO: 8031-M-206

FUNCTION: TRANSMITS DP SIGNAL FROM MAIN STEAM LINE A VENTURI
TO PDIS-42-2N686B, MAIN STEAM LINE BREAK DETECTION. SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED ARO-RETORQUE COVER TO 200 +/-20 IN. LBS. RFO-CHECK CALIBRATION REF-800.
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		
RADIATION	4.15E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 370
DEMON: +/-.11% CAL SPAN
PLANT ID: PDT-41-2N086C= REF: E-1 RACK/PANEL: N/A

COMPONENT: DIFFERENTIAL PRESSURE TRANSMITTER MODEL NO.: 1153-SERIES B
ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A
ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A
ASSOC MANF: N/A ASSOC S/N: N/A
ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: MAIN STEAM LINE A.
FLOW. PO NO: 8031-M-206

FUNCTION: TRANSMITS DP SIGNAL FROM MAIN STEAM LINE A VENTURI
TO PDIS-42-2N686C, MAIN STEAM LINE BREAK DETECTION. SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-REPLACE COVER O-RING WHEN DISTURBED ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
RADIATION	4.15E6	2.44E7	M-171	E-1	TEST		REMARKS:
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: HJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 370
DEMON: +/-.11% CAL SPAN
PLANT ID: PDT-41-2N086D= REF: E-1 RACK/PANEL: N/A

COMPONENT: DIFFERENTIAL PRESSURE TRANSMITTER MODEL NO.: 1153-SERIES B
ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A
ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A
ASSOC MANF: N/A ASSOC S/N: N/A
ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: MAIN STEAM LINE A.
FLOW. PO NO: 8031-M-206

FUNCTION: TRANSMITS DP SIGNAL FROM MAIN STEAM LINE A VENTURI
TO PDIS-42-2N686D, MAIN STEAM LINE BREAK DETECTION. SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-REPLACE COVER O-RING WHEN DISTURBED
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RADIATION	< 15E6	2.44E7	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER ACCY:SPEC: +/-.5% CAL SPAN LOCATION: ROOM 370

DEMON: +/-.11% CAL SPAN

PLANT ID: PDT-41-2N087A= REF: E-1 RACK/PANEL: N/A

COMPONENT: DIFFERENTIAL PRESSURE TRANSMITTER MODEL NO.: 1153-SERIES B

ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: MAIN STEAM LINE B.
FLOW.

PO NO: 8031-M-206

FUNCTION: TRANSMITS DP SIGNAL FROM MAIN STEAM LINE B VENTURI
PDIS-41-2N687A, MAIN STEAM LINE BREAK DETECTION.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
RADIATION	[illegible].15E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DON CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: NJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER ACCY:SPEC: +/-.5% CAL SPAN LOCATION: ROOM 370

DEMON: +/-.11% CAL SPAN

PLANT ID: PDT-41-2N087B= REF: E-1 RACK/PANEL: N/A

COMPONENT: DIFFERENTIAL PRESSURE TRANSMITTER MODEL NO.: 1153-SERIES B

ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: MAIN STEAM LINE B. FLOW. PO NO: 8031-M-206

FUNCTION: TRANSMITS DP SIGNAL FROM MAIN STEAM LINE B VENTURI PDIS-41-2N687B, MAIN STEAM LINE BREAK DETECTION. SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
RADIATION	4.15E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 | PREPARED BY: DJT | DATE: 02/22/89 | REVISION DATE: 02/23/89

EQRR: E-1 | REVIEWED BY: WJC | DATE: 02/23/89 | REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER

ACCY: SPEC: +/-.5% CAL SPAN
DEMON: +/-.11% CAL SPAN
REF: E-1

LOCATION: ROOM 370

PLANT ID: PDT-41-2N087C=

RACK/PANEL: N/A

COMPONENT: DIFFERENTIAL PRESSURE TRANSMITTER

MODEL NO.: 1153-SERIES B

ASSOC COMP: N/A
ASSOC COMP: N/A

ASSOC M/N: N/A
ASSOC M/N: N/A

ASSOC. DWG: N/A

MANUFACTU: ROSEMOUNT

SERIAL NO: N/A

ASSOC MANF: N/A
ASSOC MANF: N/A

ASSOC S/N: N/A
ASSOC S/N: N/A

SERVICE: MAIN STEAM LINE B.
FLOW.

PO NO: 8031-M-206

FUNCTION: TRANSMITS DP SIGNAL FROM MAIN STEAM LINE B VENTURI PDIS-41-2N687C, MAIN STEAM LINE BREAK DETECTION.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED ARO-RETORQUE COVER TO 200 +/-20 IN. LBS. RFO-CHECK CALIBRATION REF-800.
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		
RADIATION	4.15E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DON CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 370
DEMON: +/-.11% CAL SPAN
PLANT ID: PDT-41-2N087D= REF: E-1 RACK/PANEL: N/A

COMPONENT: DIFFERENTIAL PRESSURE TRANSMITTER MODEL NO.: 1153-SERIES B
ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A
ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A
ASSOC MANF: N/A ASSOC S/N: N/A
ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: MAIN STEAM LINE B.
FLOW. PO NO: 8031-M-206

FUNCTION: TRANSMITS DP SIGNAL FROM MAIN LINE B VENTURI
PDIS-41-2N687D, MAIN STEAM LINE BREAK DETECTION. SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS:
							ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
							RFO-CHECK CALIBRATION
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		REF-800.
RADIATION	4.15E6	2.44E7	M-171	E-1	TEST		REMARKS:
							USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: WJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER ACCY: SPEC: +/- 5% CAL SPAN LOCATION: ROOM 370
DEMON: +/-.11% CAL SPAN

PLANT ID: PDT-41-2N088A= REF: E-1 RACK/PANEL: N/A

COMPONENT: DIFFERENTIAL PRESSURE TRANSMITTER MODEL NO.: 1153-SERIES B
ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A
ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A
ASSOC MANF: N/A ASSOC S/N: N/A
ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: MAIN STEAM LINE C.
FLOW. PO NO: 8031-M-206

FUNCTION: TRASMITS DP SIGNAL FROM MAIN LINE C VENTURI
PDIS-41-2N688A, MAIN STEAM LINE BREAK DETECTION. SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-REPLACE COVER O-RING WHEN DISTURBED
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RADIATION	4.15E6	2.44E7	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 370
DEMON: +/-.11% CAL SPAN
PLANT ID: PDT-41-2N088B= REF: E-1 RACK/PANEL: N/A

COMPONENT: DIFFERENTIAL PRESSURE TRANSMITTER MODEL NO.: 1153-SERIES B
ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A
ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A
ASSOC MANF: N/A ASSOC S/N: N/A
ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: MAIN STEAM LINE C.
FLOW. PO NO: 8031-M-206

FUNCTION: TRANSMITS DP SIGNAL FROM MAIN STEAM LINE VENTURI
TO PDIS-41-2N688B, MAIN STEAM LINE BREAK DETECTION. SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS:
							ARO-REPLACE COVER O-RING
							WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO
							200 +/-20 IN. LBS.
							RFO-CHECK CALIBRATION
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		REF-800.
RADIATION	4.15E6	2.44E7	M-171	E-1	TEST		REMARKS:
							USE DOW CORNING 55M AS
							THREAD LUBRCANT FOR
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		ELECTRONIC HOUSING AND COVERS
DEFICIENCY RESOLUTION:							QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: WJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 370
DEMON: +/-.11% CAL SPAN
PLANT ID: PDT-41-2N088C= REF: E-1 RACK/PANEL: N/A

COMPONENT: DIFFERENTIAL PRESSURE TRANSMITTER MODEL NO.: 1153-SERIES B
ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A
ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A
ASSOC MANF: N/A ASSOC S/N: N/A
ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: MAIN STEAM LINE C. FLOW. PO NO: 8031-M-206

FUNCTION: TRANSMITS DP SIGNAL FROM MAIN STEAM LINE C VENTURI TO PDIS-41-2N688C, MAIN STEAM LINE BREAK DETECTION. SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
RADIATION	4.15E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 | PREPARED BY: DJT | DATE: 02/22/89 | REVISION DATE: 02/23/89

EQRR: E-1 | REVIEWED BY: MJC | DATE: 02/23/89 | REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER | ACCY: SPEC: +/-.5% CAL SPAN | LOCATION: ROOM 370

DEMON: +/-.11% CAL SPAN

PLANT ID: PDT-41-2N088D= | REF: E-1 | RACK/PANEL: N/A

COMPONENT: DIFFERENTIAL PRESSURE TRANSMITTER | MODEL NO.: 1153-SERIES B

ASSOC COMP: N/A | ASSOC M/N: N/A | ASSOC. DWG: N/A

ASSOC COMP: N/A | ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT | SERIAL NO: N/A

ASSOC MANF: N/A | ASSOC S/N: N/A

ASSOC MANF: N/A | ASSOC S/N: N/A

SERVICE: MAIN STEAM LINE C. FLOW.

PO NO: 8031-M-206

FUNCTION: TRANSMITS DP SIGNAL FROM MAIN STEAM LINE C VENTURI TO PDIS-41-2N688D, MAIN STEAM LINE BREAK DETECTION.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS. RFO-CHECK CALIBRATION
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		REF-800.
RADIATION	4.15E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER ACCY:SPEC: +/-.5% CAL SPAN LOCATION: ROOM 370
DEMON: +/-.11% CAL SPAN
PLANT ID: PDT-41-2N089A= REF: E-1 RACK/PANEL: N/A

COMPONENT: DIFFERENTIAL PRESSURE TRANSMITTER MODEL NO.: 1153-SERIES B
ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A
ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A
ASSOC MANF: N/A ASSOC S/N: N/A
ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: MAIN STEAM LINE D.
FLOW. PO NO: 8031-M-206

FUNCTION: TRANSMITS DP SIGNAL FROM MAIN STEAM LINE D VENTURI
TO PDIS-41-2N689A, MAIN STEAM LINE BREAK DETECTION. SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS:
							ARO-REPLACE COVER O-RING
							WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO
							200 +/-20 IN. LBS.
							RFO-CHECK CALIBRATION
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		
							REF-800.
RADIATION	4.15E6	2.44E7	M-171	E-1	TEST		REMARKS:
							USE DOW CORNING 55M AS
							THREAD LUBRCANT FOR
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		ELECTRONIC HOUSING AND
							COVERS
DEFICIENCY RESOLUTION:							
							QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: WJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 370
DEMON: +/-.11% CAL SPAN
PLANT ID: PDT-41-2N089B= REF: E-1 RACK/PANEL: N/A

COMPONENT: DIFFERENTIAL PRESSURE TRANSMITTER MODEL NO.: 1153-SERIES B
ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A
ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A
ASSOC MANF: N/A ASSOC S/N: N/A
ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: MAIN STEAM LINE D.
FLOW. PO NO: 8031-M-206

FUNCTION: TRANSMITS DP SIGNAL FROM MAIN STEAM LINE D VENTURI
TO PDIS-41-2N689B, MAIN STEAM LINE BREAK DETECTION. SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION		INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD	OUTSTANDING ITEMS	
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
RADIATION	4.15E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DON CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 370
DEMON: +/-.11% CAL SPAN
PLANT ID: PDT-41-2N089C= REF: E-1 RACK/PANEL: N/A

COMPONENT: DIFFERENTIAL PRESSURE TRANSMITTER MODEL NO.: 1153-SERIES B
ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A
ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A
ASSOC MANF: N/A ASSOC S/N: N/A
ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: MAIN STEAM LINE D.
FLOW. PO NO: 8031-M-206

FUNCTION: TRANSMITS DP SIGNAL FROM MAIN STEAM LINE D VENTURI
TO PDIS-41-2N689C, MAIN STEAM LINE BREAK DETECTION. SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-REPLACE COVER O-RING WHEN DISTURBED ARO-RETORQUE COVER TO 200 +/-20 IN. LBS. RFO-CHECK CALIBRATION
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		REF-800.
RADIATION	4.15E6	2.44E7	M-171	E-1	TEST		REMARKS:
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 | PREPARED BY: DJT | DATE: 02/22/89 | REVISION DATE: 02/23/89

EQRR: E-1 | REVIEWED BY: WJC | DATE: 02/23/89 | REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER

ACCY: SPEC: +/-.5% CAL SPAN
DEMON: +/-.11% CAL SPAN
REF: E-1

LOCATION: ROOM 370

PLANT ID: PDT-41-2N089D=

RACK/PANEL: N/A

COMPONENT: DIFFERENTIAL PRESSURE TRANSMITTER

MODEL NO.: 1153-SERIES B

ASSOC COMP: N/A

ASSOC M/N: N/A

ASSOC. DNG: N/A

ASSOC COMP: N/A

ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT

SERIAL NO: N/A

ASSOC MANF: N/A

ASSOC S/N: N/A

ASSOC MANF: N/A

ASSOC S/N: N/A

SERVICE: MAIN STEAM LINE D. FLOW.

PO NO: 8031-M-206

FUNCTION: TRANSMITS DP SIGNAL FROM MAIN STEAM LINE D VENTURI TO PDIS-41-2N689D, MAIN STEAM LINE BREAK DETECTION.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
RADIATION	4.15E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DON CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: WJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: RESIDUAL HEAT REMOVAL ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 475
DEMON: +/-.11% CAL SPAN

PLANT ID: PDT-51-2N058A= REF: E-1 RACK/PANEL: N/A

COMPONENT: DIFFERENTIAL PRESSURE TRANSMITTER MODEL NO.: 1153-SERIES B
ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A
ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A
ASSOC MANF: N/A ASSOC S/N: N/A
ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: LPCI VALVE DP.

PO NO: 8031-M-206

FUNCTION: TRANSMITS SIGNAL TO PDISL-51-2N658A
FOR OPEN PERMISSIVE FORHV-51-2F017A.
LOCA AND ALL LINE BREAKS.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	6 HRS.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DON CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: RESIDUAL HEAT REMOVAL ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 475

DEMON: +/-.11% CAL SPAN

PLANT ID: PDT-51-2N058B= REF: E-1 RACK/PANEL: N/A

COMPONENT: DIFFERENTIAL PRESSURE TRANSMITTER MODEL NO.: 1153-SERIES B

ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: LPCI VALVE DP.

PO NO: 8031-M-206

FUNCTION: TRANSMITS SIGNAL TO PDISL-51-2N658B FOR OPEN PERMISSIVE FOR HV-51-2F017B LOCA AND ALL LINE BREAKS.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	6 HRS.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 | PREPARED BY: DJT | DATE: 02/22/89 | REVISION DATE: 02/23/89

EQRR: E-1 | REVIEWED BY: WJC | DATE: 02/23/89 | REVISION NO.: 0.0

SYSTEM: RESIDUAL HEAT REMOVAL

ACCY: SPEC: +/-.5% CAL SPAN
DEMON: +/-.11% CAL SPAN
REF: E-1

LOCATION: ROOM 475

PLANT ID: PDT-51-2N058C=

RACK/PANEL: N/A

COMPONENT: DIFFERENTIAL PRESSURE TRANSMITTER

MODEL NO.: 1153-SERIES B

ASSOC COMP: N/A

ASSOC M/N: N/A

ASSOC. DWG: N/A

ASSOC COMP: N/A

ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT

SERIAL NO: N/A

ASSOC MANF: N/A

ASSOC S/N: N/A

ASSOC MANF: N/A

ASSOC S/N: N/A

SERVICE: LPCI VALVE DP.

PO NO: 8031-M-206

FUNCTION: TRANSMITS SIGNAL TO PDISL-51-2N658C FOR OPEN PERMISSIVE FOR HV-51-2F017C. LOCA AND ALL LINE BREAKS.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	6 HRS.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: WJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: RESIDUAL HEAT REMOVAL ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 475
DEMON: +/-.11% CAL SPAN
PLANT ID: PDT-51-2N058D= REF: E-1 RACK/PANEL: N/A

COMPONENT: DIFFERENTIAL PRESSURE TRANSMITTER MODEL NO.: 1153-SERIES B
ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A
ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A
ASSOC MANF: N/A ASSOC S/N: N/A
ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: LPCI VALVE DP.
PO NO: 8031-M-206

FUNCTION: TRANSMITS SIGNAL TO PDISL-51-2N658D
FOR OPEN PERMISSIVE FOR HV-51-2F017D
LOCA AND ALL LINE BREAKS.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	6 HRS.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: HJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: HIGH PRESSURE COOLANT INJECTION

ACCY: SPEC: +/- 5% CAL SPAN
DEMON: +/-.11% CAL SPAN
REF: E-1

LOCATION: RGOM 370

PLANT ID: PDT-55-2N057B=

RACK/PANEL: N/A

COMPONENT: DIFFERENTIAL PRESSURE TRANSMITTER
ASSOC COMP: N/A
ASSOC COMP: N/A

MODEL NO.: 1153-SERIES B
ASSOC M/N: N/A
ASSOC M/N: N/A

ASSOC. DWG: N/A

MANUFACTU: ROSEMOUNT
ASSOC MANF: N/A
ASSOC MANF: N/A

SERIAL NO: N/A
ASSOC S/N: N/A
ASSOC S/N: N/A

SERVICE: HPCI STEAM SUPPLY LINE - BREAK DETECTION.

PO NO: 8031-M-206

FUNCTION: TRANSMITS SIGNAL TO PDIS-55-2N657B AND PDIS-55-2N660B FOR HPCI STEAM SUPPLY LINE BREAK MITIGATION.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
RADIATION	4.15E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 | PREPARED BY: DJT | DATE: 02/22/89 | REVISION DATE: 02/23/89

EQRR: E-1 | REVIEWED BY: MJC | DATE: 02/23/89 | REVISION NO.: 0.0

SYSTEM: HIGH PRESSURE COOLANT INJECTION

ACCY: SPEC: +/-.5% CAL SPAN
DEMON: +/-.11% CAL SPAN
REF: E-1

LOCATION: ROOM 370

PLANT ID: PDT-55-2N057D=

RACK/PANEL: N/A

COMPONENT: DIFFERENTIAL PRESSURE TRANSMITTER

MODEL NO.: 1153-SERIES B

ASSOC COMP: N/A

ASSOC M/N: N/A

ASSOC. DWG: N/A

ASSOC COMP: N/A

ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT

SERIAL NO: N/A

ASSOC MANF: N/A

ASSOC S/N: N/A

ASSOC MANF: N/A

ASSOC S/N: N/A

SERVICE: HPCI STEAM SUPPLY LINE - BREAK DETECTION.

PO NO: 8031-M-206

FUNCTION: TRANSMITS SIGNAL TO PDIS-55-2N657D AND TO PDIS-55-2N660D FOR HPCI STEAM SUPPLY LINE BREAK MITIGATION

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
RADIATION	4.15E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: WJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: REACTOR CORE ISOLATION COOLING ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 370

DEMON: +/-.11% CAL SPAN

PLANT ID: PDT-49-2N057A= REF: E-1 RACK/PANEL: N/A

COMPONENT: DIFFERENTIAL PRESSURE TRANSMITTER MODEL NO.: 1153-SERIES B

ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: RCIC STEAM SUPPLY LINE FLOW

PO NO: 8031-M-206

FUNCTION: TRANSMITS HIGH FLOW SIGNAL TO PDIS-49-2N657A FOR RCIC STEAM SUPPLY LINE ISOLATION. RCIC STEAM SUPPLY LINE BREAK.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
RADIATION	4.15E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: WJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: MSIV-LEAKAGE CONTROL SYSTEM ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 475
DEMON: +/-.11% CAL SPAN
PLANT ID: PT-40-2N056= REF: E-1 RACK/PANEL: N/A

COMPONENT: PRESSURE TRANSMITTER MODEL NO.: 1153-SERIES B
ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A
ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A
ASSOC MANF: N/A ASSOC S/N: N/A
ASSOC MANF: N/A ASSOC S/N: N/A

MPL: E32

SERVICE: OUTBOARD MSIV-LCS

PO NO: 8031-M-206

FUNCTION: TRANSMITS STEAM LINE PRESSURE SIGNAL FROM DOWNSTREAM OF OUTSIDE MSIV TO PIS-40-2N656 FOR SYSTEM CONTROL, POST-LOCA.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-1	TEST & ANAL.		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION 33.22 YRS- REPLACE SENSING MODULE.---REF-151,634,635
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

RG 1.97

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER VESSEL INSTRUMENTATION ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 475

DEMON: +/-.11% CAL SPAN

PLANT ID: PT-42-2N078A= REF: E-1 RACK/PANEL: N/A

COMPONENT: PRESSURE TRANSMITTER MODEL NO.: 1153-SERIES B

ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: REACTOR VESSEL PRESSURE.

PO NO: 8031-M-206

FUNCTION: TRANSMITS RPV PRESSURE SIGNAL TP POS-42-2N678A FOR RPS INITIATION AND PS-42-2N679A FOR NUCLEAR STEAM SUPPLY SHUTOFF INITIATION. LOCA AND ALL LINE BREAKS.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION		INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD	OUTSTANDING ITEMS	
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: HJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER VESSEL INSTRUMENTATION

ACCY: SPEC: +/-.5% CAL SPAN
DEMON: +/-.11% CAL SPAN
REF: E-1

LOCATION: ROOM 475

PLANT ID: PT-42-2N 78B=

RACK/PANEL: N/A

COMPONENT: PRESSURE TRANSMITTER
ASSOC COMP: N/A
ASSOC COMP: N/A

MODEL NO.: 1153-SERIES B
ASSOC M/N: N/A
ASSOC M/N: N/A

ASSOC. DWG: N/A

MANUFACTU: ROSEMOUNT
ASSOC MANF: N/A
ASSOC MANF: N/A

SERIAL NO: N/A
ASSOC S/N: N/A
ASSOC S/N: N/A

SERVICE: REACTOR VESSEL PRESSURE.

PO NO: 8031-M-206

FUNCTION: TRANSMITS RPV PRESSURE SIGNAL TO PIS-42-2N678B FOR RPS INITIATION AND PS-42-2N679B FOR NUCLEAR STEAM SUPPLY SHUTOFF INITIATION. LOCA AND ALL LINE BREAKS.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD	
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST & ANAL.	
TEMPERATURE (F)	120	318	M-171	E-1	TEST	
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST	
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST	
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST	
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS	

INTERFACES:

MAINTENANCE REQUIREMENTS:
ARO-REPLACE COVER O-RING WHEN DISTURBED
ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RFO-CHECK CALIBRATION
33.22 YRS- REPLACE SENSING MODULE.---REF-216,626,627.

REMARKS:
USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: WJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER VESSEL INSTRUMENTATION ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 475
DEMON: +/-.11% CAL SPAN
PLANT ID: PT-42-2N078C= REF: E-1 RACK/PANEL: N/A

COMPONENT: PRESSURE TRANSMITTER MODEL NO.: 1153-SERIES B
ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A
ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A
ASSOC MANF: N/A ASSOC S/N: N/A
ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: REACTOR VESSEL PRESSURE.
PO NO: 8031-M-206

FUNCTION: TRANSMITS RPV PRESSURE SIGNAL TO PIS-42-2N678C FOR RPS INITIATION AND PS-42-2N679C FOR NUCLEAR STEAM SUPPLY SHUTOFF INITIATION. LOCA AND ALL LINE BREAKS.
SUBMERGENCE: N/A
CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DON CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER VESSEL INSTRUMENTATION ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 475
DEMON: +/-.11% CAL SPAN
PLANT ID: PT-42-2N078D= REF: E-1 RACK/PANEL: N/A

COMPONENT: PRESSURE TRANSMITTER MODEL NO.: 1153-SERIES B
ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A
ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A
ASSOC MANF: N/A ASSOC S/N: N/A
ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: REACTOR VESSEL PRESSURE.

PO NO: 8031-M-206

FUNCTION: TRANSMITS RPV PRESSURE SIGNAL TP PIS-42-2N678D FOR RPS INITIATION AND PS-42-2N679D FOR NUCLEAR STEAM SUPPLY SHUTOFF INITIATION. LOCA AND ALL LINE BREAKS.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER VESSEL INSTRUMENTATION ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 475

DEMON: +/-.11% CAL SPAN

PLANT ID: PT-42-2N090C= REF: E-1 RACK/PANEL: N/A

COMPONENT: PRESSURE TRANSMITTER MODEL NO.: 1153-SERIES B

ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: REACTOR VESSEL PRESSURE.

PO NO: 8031-M-206

FUNCTION: TRANSMITS RPV PRESSURE SIGNAL TO PIS-42-2N690C FOR CS(C) AND RHR (C) SYSTEM INITIATION, LOCA AND ALL LINE BREAKS.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HOUR	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-809.
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER VESSEL INSTRUMENTATION
ACCY: SPEC: +/-.5% CAL SPAN
DEMON: +/-.11% CAL SPAN
LOCATION: ROOM 475

PLANT ID: PT-42-2N090G=
REF: E-1
RACK/PANEL: N/A

COMPONENT: PRESSURE TRANSMITTER
MODEL NO.: 1153-SERIES B
ASSOC COMP: N/A
ASSOC M/N: N/A
ASSOC. DWG: N/A
ASSOC COMP: N/A
ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT
SERIAL NO: N/A
ASSOC MANF: N/A
ASSOC S/N: N/A
ASSOC MANF: N/A
ASSOC S/N: N/A

SERVICE: REACTOR VESSEL PRESSURE.
PO NO: 8031-M-206

FUNCTION: TRANSMITS RPV PRESSURE SIGNAL TO PIS-42-2N690G FOR CORE SPRAY (C) RHR (C) SYSTEM INITIATION, LOCA AND ALL LINE BREAKS.
SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HOUR	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER VESSEL INSTRUMENTATION ACCY:SPEC: +/-.5% CAL SPAN LOCATION: ROOM 475
DEMON: +/-.11% CAL SPAN
PLANT ID: PT-42-2N090J= REF: E-1 RACK/PANEL: N/A

COMPONENT: PRESSURE TRANSMITTER MODEL NO.: 1153-SERIES B
ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A
ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A
ASSOC MANF: N/A ASSOC S/N: N/A
ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: REACTOR VESSEL PRESSURE.
PO NO: 8031-M-206

FUNCTION: TRANSMITS RPV PRESSURE SIGNAL TO PIS-42-2N690J FOR CORE SPRAY (A) INITIATION, LOCA AND ALL LINE BREAKS.
SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-REPLACE COVER O-RING WHEN DISTURBED
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: HJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: NUCLEAR BOILER VESSEL INSTRUMENTATION ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 475
DEMON: +/-.11% CAL SPAN
PLANT ID: PT-42-2N094A= REF: E-1 RACK/PANEL: N/A

COMPONENT: PRESSURE TRANSMITTER MODEL NO.: 1153-SERIES B
ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A
ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A
ASSOC MANF: N/A ASSOC S/N: N/A
ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: DRYWELL PRESSURE
PO NO: 8031-M-206

FUNCTION: TRANSMITS DRYWELL PRESSURE SIGNAL TO PIS-42-2N694A FOR CORE SPRAY (A) RHR (A), ADS (A), AND RCIC INITIATION, LOCA.
SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	90	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DON CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: HJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: REACTOR CORE ISOLATION COOLING ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 279
DEMON: +/-.11% CAL SPAN
PLANT ID: PT-49-2N050= REF: E-1 RACK/PANEL: N/A

COMPONENT: PRESSURE TRANSMITTER MODEL NO.: 1153-SERIES B
ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A
ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A
ASSOC MANF: N/A ASSOC S/N: N/A
ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: RCIC PUMP DISCHARGE
PO NO: 8031-M-206

FUNCTION: TRANSMITS SIGNAL TO PIS-49-2N650 TO CONTROL MIN-FLOW BY-PASS VALVE HV-49-2F019. NOT REQUIRED FOR HARSH ENVIRONMENT OPERATION. POWER SOURCE CLASS 1E.
SUBMERGENCE: N/A
CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	1 HR.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
RADIATION	3.7E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

INST. HAS NO SAFETY FUNCTION THEREFORE ACCURACY SPEC. IS NOT APPLICABLE.

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: WJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: REACTOR CORE ISOLATION COOLING

ACCY: SPEC: +/-.5% CAL SPAN
DEMON: +/-.11% CAL SPAN
REF: E-1

LOCATION: ROOM 179

PLANT ID: PT-50-2N053=

RACK/PANEL: N/A

COMPONENT: PRESSURE TRANSMITTER

MODEL NO.: 1153-SERIES B

ASSOC COMP: N/A

ASSOC M/N: N/A

ASSOC. DWG: N/A

ASSOC COMP: N/A

ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT

SERIAL NO: N/A

ASSOC MANF: N/A

ASSOC S/N: N/A

ASSOC MANF: N/A

ASSOC S/N: N/A

SERVICE: RCIC PUMP SUCTION

PO NO: 8031-M-206

FUNCTION: TRANSMITS SIGNAL TO PIS-50-2N653 TO TRIP TURBINE ON LOW SUCTION PRESSURE. PRESSURE BOUNDARY.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	6 HRS.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	222	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	17.4	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	100	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
RADIATION	2.44E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

INST. HAS NO SAFETY FUNCTION THEREFORE ACCURACY SPEC. IS NOT APPLICABLE.

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: REACTOR CORE ISOLATION COOLING ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 179

DEMON: +/-.11% CAL SPAN

PLANT ID: PT-50-2N055G= REF: E-1 RACK/PANEL: N/A

COMPONENT: PRESSURE TRANSMITTER MODEL NO.: 1153-SERIES B

ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: RCIC TURBINE EXHAUST VENT HI-PRESSURE

PO NO: 8031-M-206

FUNCTION: TRANSMITS SIGNAL TO PIS-50-2N655G TO INITIATE RCIC IAOLATION. PRESSURE BOUNDARY

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	6 HRS.	180 DAYS	M-171	E-1	TEST		
TEMPERATURE (F)	222	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	17.4	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	100	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION REF-800.
RADIATION	2.44E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

INST. HAS NO SAFETY FUNCTION THEREFORE ACCURACY SPEC. IS NOT APPLICABLE.

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: WJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: PRIMARY CONTAINMENT INSTRUMENT GAS ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 475

DEMON: +/-.11% CAL SPAN

PLANT ID: PT-59-203A= REF: E-1 RACK/PANEL: N/A

COMPONENT: PRESSURE TRANSMITTER MODEL NO.: 1153-SERIES B

ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: ADS RELIEF VALVE N2 SUPPLY HEADER PRESSURE

PO NO: 8031-M-206

FUNCTION: INDICATION ONLY - REQUIRED FOR LOCA AND HELB.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-1	TEST & ANAL.		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION 33.22 YRS- REPLACE SENSING MODULE.---REF-151,634,635
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: WJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: PRIMARY CONTAINMENT INSTRUMENT GAS ACCY: SPEC: +/-.5% CAL SPAN LOCATION: ROOM 475

DEMON: +/-.11% CAL SPAN

PLANT ID: PT-59-203B= REF: E-1 RACK/PANEL: N/A

COMPONENT: PRESSURE TRANSMITTER MODEL NO.: 1153-SERIES B

ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: ADS RELIEF VALVE N2 SUPPLY HEADER PRESSURE

PO NO: 8031-M-206

FUNCTION: INDICATION ONLY - REQUIRED FOR LOCA AND HELB.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-1	TEST & ANAL.		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION 33.22 YRS- REPLACE SENSING MODULE.---REF-151,634,635.
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: E-1 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: PRIMARY CONTAINMENT INSTRUMENT GAS

ACCY: SPEC: +/-.5% CAL SPAN
DEMON: +/-.11% CAL SPAN
REF: E-1

LOCATION: ROOM 475

PLANT ID: PT-59-252A=

RACK/PANEL: N/A

COMPONENT: PRESSURE TRANSMITTER
ASSOC COMP: N/A
ASSOC COMP: N/A

MODEL NO.: 1153-SERIES B
ASSOC M/N: N/A
ASSOC M/N: N/A

ASSOC. DNG: N/A

MANUFACTU: ROSEMOUNT
ASSOC MANF: N/A
ASSOC MANF: N/A

SERIAL NO: N/A
ASSOC S/N: N/A
ASSOC S/N: N/A

SERVICE: ADS RELIEF VALVE N2 SUPPLY HEADER PRESSURE

PO NO: 8031-M-206

FUNCTION: ON LOW PRESSURE INITIATES ISOLATION OF NORMAL GAS SUPPLY AND OPENS SUPPLY SV FROM INSTRUMENT GAS BOTTLES. REQUIRED FOR LOCA AND HELB.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-1	TEST & ANAL.		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED
PRESSURE (PSIA)	14.7	87.7	M-171	E-1	TEST		ARO-RETORQUE COVER TO 200 +/-20 IN. LBS.
RELATIVE HUMIDITY (%)	90	100	M-171	E-1	TEST		RFO-CHECK CALIBRATION 33.22 YRS- REPLACE SENSING MODULE.---REF-151,634,635
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DOW CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 | PREPARED BY: DJT | DATE: 02/22/89 | REVISION DATE: 02/23/89

EQRR: E-1 | REVIEWED BY: MJC | DATE: 02/23/89 | REVISION NO.: 0.0

SYSTEM: PRIMARY CONTAINMENT INSTRUMENT GAS

ACCY: SPEC: +/-.5% CAL SPAN
DEMON: +/-.11% CAL SPAN
REF: E-1

LOCATION: ROOM 374

PLANT ID: PT-59-252B=

RACK/PANEL: N/A

COMPONENT: PRESSURE TRANSMITTER

MODEL NO.: 1153-SERIES B

ASSOC COMP: N/A

ASSOC M/N: N/A

ASSOC. DWG: N/A

ASSOC COMP: N/A

ASSOC M/N: N/A

MANUFACTU: ROSEMOUNT

SERIAL NO: N/A

ASSOC MANF: N/A

ASSOC S/N: N/A

ASSOC MANF: N/A

ASSOC S/N: N/A

SERVICE: ADS RELIEF VALVE N2 SUPPLY HEADER PRESSURE

PO NO: 8031-M-206

FUNCTION: ON LOW PRESSURE INITIATES ISOLATION OF NORMAL GAS SUPPLY AND OPENS SUPPLY SV FROM INSTRUMENT GAS BOTTLES. REQUIRED FOR LOCA AND HELB.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		CONDUIT SEAL REQUIRED: LATER
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-1	TEST & ANAL.		
TEMPERATURE (F)	120	318	M-171	E-1	TEST		MAINTENANCE REQUIREMENTS: ARO-REPLACE COVER O-RING WHEN DISTURBED ARO-RETORQUE COVER TO 200 +/-20 IN. LBS. RFO-CHECK CALIBRATION 14.96 YRS-REPLACE SENSING MODULE.-REF-680,681,151
PRESSURE (PSIA)	16.1 (C)	87.7	M-171	E-1	TEST		
RELATIVE HUMIDITY (%)	100(C)	100	M-171	E-1	TEST		
RADIATION	4.19E6	2.44E7	M-171	E-1	TEST		REMARKS: USE DON CORNING 55M AS THREAD LUBRCANT FOR ELECTRONIC HOUSING AND COVERS
AGING	40 YRS.	40 YRS.	N/A	E-1	TEST & ANALYSIS		

DEFICIENCY RESOLUTION:

HELB ENVIRONMENT

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 | PREPARED BY: DJT | DATE: 02/22/89 | REVISION DATE: 02/23/89

EQRR: 202 | REVIEWED BY: WJC | DATE: 02/23/89 | REVISION NO.: 0.0

SYSTEM: CLASS 1E POWER SYSTEMS | ACCY: SPEC: N/A | LOCATION: PRI/SEC CONT.

PLANT ID: SEAL-202(II)= | DEMON: | REF: | RACK/PANEL:

COMPONENT: ELECTRIC CONDUIT SEAL | MODEL NO.: N/A

ASSOC COMP: | ASSOC M/N: | ASSOC. DWG: N/A

ASSOC COMP: | ASSOC M/N:

MANUFACTU: PATEL ENGINEERING | SERIAL NO: N/A

ASSOC MANF: | ASSOC S/N:

ASSOC MANF: | ASSOC S/N:

SERVICE: PROVIDES A MOISTURE SEAL FOR ELECTRICAL CONDUCTORS CONNECTING ELECTRICAL DEVICES | PO NO: N/A

FUNCTION: TO INSURE THAT CONDUCTORS ARE SEALED IN ORDER TO MAINTAIN THEIR SAFETY FUNCTION THROUGHOUT QUALIFIED LIFE AND DURING A DBA. | SUBMERGENCE: N/A | CHEMICAL SPRAY: DEMIN. WATER

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES: CABLE
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-202	TEST & ANALYSIS		
TEMPERATURE (F)	340	415	M-171	E-202	TEST		MAINTENANCE REQUIREMENTS: NONE
PRESSURE (PSIA)	58.7	114.7	M-171	E-202	TEST		
RELATIVE HUMIDITY (%)	100	100	M-171	E-202	TEST		
RADIATION	6.4E7	2.0E8	M-171	E-202	TEST		REMARKS: SPECIFIED ENVIRONMENTAL PARAMETERS ARA WORST CASE BASED ON ANALYSIS OF ALL APPLICABLE LOCATIONS
AGING	40 YRS.	40 YRS.	M-171	E-202	TEST		

DEFICIENCY RESOLUTION:

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 212 REVIEWED BY: WJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: PLANT PROCESS RADIATION MONITORING ACCY: SPEC: N/A LOCATION: ROOM 574

DEMON: N/A

PLANT ID: SV-26-290A= REF: N/A RACK/PANEL: N/A

N/A

COMPONENT: SOLENOID VALVE MODEL NO.: V526-5000-SERIES

ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DHG:

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: VALCOR SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: NORMALLY OPEN TO PERMIT FLOW OF PRIMARY CONTAINMENT GAS TO THE CONTAINMENT LEAK DETECTION MONITOR PO NO: M-245C

FUNCTION: CLOSE TO PROVIDE PRIMARY CONTAINMENT ISOLATION ON SIGNAL FROM RV LEVEL 2, DRYWELL HI-PRESS, RX ENCL HI-RAD, OR REFUELING FLOOR HI-RAD.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-212	TEST & ANAL.		
TEMPERATURE (F)	120	414	M-171	E-212	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	80.7	M-171	E-212	TEST		
RELATIVE HUMIDITY (%)	90	100	M-171	E-212	TEST		
RADIATION	3.7E6	5.90E7	M-171	E-212	TEST		REMARKS:
AGING	40 YRS.	40 YRS.	N/A	E-212	TEST & ANAL.		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 212 REVIEWED BY: WJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: PLANT PROCESS RADIATION MONITORING ACCY: SPEC: N/A LOCATION: ROOM 574

DEMON: N/A

PLANT ID: SV-26-290B= REF: N/A RACK/PANEL: N/A

N/A

COMPONENT: SOLENOID VALVE MODEL NO.: V526-5000-SERIES

ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG:

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: VALCOR SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: NORMALLY OPEN TO PERMIT FLOW OF PRIMARY CONTAINMENT GAS TO THE CONTAINMENT LEAK DETECTION MONITOR PO NO: M-245C

FUNCTION: CLOSES TO PROVIDE PRIMARY CONTAINMENT ISOLATION ON SIGNAL FROM RV LEVEL 2, DRYWELL HI-PRESS, RX ENCL HI-RAD, OR REFUELING FLOOR HI-RAD. SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-212	TEST & ANAL.		
TEMPERATURE (F)	120	414	M-171	E-212	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	80.7	M-171	E-212	TEST		
RELATIVE HUMIDITY (%)	90	100	M-171	E-212	TEST		
RADIATION	3.7E6	5.90E7	M-171	E-212	TEST		REMARKS:
AGING	40 YRS.	40 YRS.	N/A	E-212	TEST & ANAL.		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 212 REVIEWED BY: WJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: PLANT PROCESS RADIATION MONITORING ACCY:SPEC: N/A LOCATION: ROOM 574
DEMON: N/A
PLANT ID: SV-26-290C= REF: N/A RACK/PANEL: N/A
N/A
COMPONENT: SOLENOID VALVE MODEL NO.: V526-5000-SERIES
ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG:
ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: VALCOR SERIAL NO: N/A
ASSOC MANF: N/A ASSOC S/N: N/A
ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: NORMALLY OPEN TO PERMIT FLOW OF PRIMARY CONTAINMENT GAS TO THE CONTAINMENT LEAK DETECTION MONITOR PO NO: M-245C

FUNCTION: CLOSES TO PROVIDE PRIMARY CONTAINMENT ISOLATION ON SIGNAL FROM RV LEVEL 2, DRYWELL HI-PRESS, RX ENCL HI-RAD, OR REFUELING FLOOR HI-RAD. SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A
N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-212	TEST & ANAL.		
TEMPERATURE (F)	120	414	M-171	E-212	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	80.7	M-171	E-212	TEST		
RELATIVE HUMIDITY (%)	90	100	M-171	E-212	TEST		
RADIATION	4.15E6	5.90E7	M-171	E-212	TEST		REMARKS:
AGING	40 YRS.	40 YRS.	N/A	E-212	TEST & ANAL.		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 212 REVIEWED BY: WJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: PLANT PROCESS RADIATION MONITORING ACCY: SPEC: N/A LOCATION: ROOM 574

DEMON: N/A

PLANT ID: SV-26-290D= REF: N/A RACK/PANEL: N/A

N/A

COMPONENT: SOLENOID VALVE MODEL NO.: V526-5000-SERIES

ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG:

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: VALCOR SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: NORMALLY OPEN TO PERMIT FLOW OF PRIMARY CONTAINMENT GAS TO THE CONTAINMENT LEAK DETECTION MONITOR PO NO: M-245C

FUNCTION: CLOSES TO PROVIDE PRIMARY CONTAINMENT ISOLATION ON SIGNAL FROM RV LEVEL 2, DRYWELL HI-PRESS, RX ENCL HI-RAD, OR REFUELING FLOOR HI-RAD.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-212	TEST & ANAL.		
TEMPERATURE (F)	120	414	M-171	E-212	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	80.7	M-171	E-212	TEST		
RELATIVE HUMIDITY (%)	90	100	M-171	E-212	TEST		
RADIATION	3.7E66	5.90E7	M-171	E-212	TEST		REMARKS:
AGING	40 YRS.	40 YRS.	N/A	E-212	TEST & ANAL.		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 212 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: CORE SPRAY

PLANT ID: SV-52-239=

COMPONENT: SOLENOID VALVE
ASSOC COMP: N/A
ASSOC COMP: N/A

MANUFACTU: VALCOR
ASSOC MANF: N/A
ASSOC MANF: N/A

ACCY: SPEC: N/A
DEMON: N/A
REF: N/A

MODEL NO.: V526-5000-SERIES
ASSOC M/N: N/A
ASSOC M/N: N/A

SERIAL NO: N/A
ASSOC S/N: N/A
ASSOC S/N: N/A

LOCATION: ROOM 189

RACK/PANEL: N/A

ASSOC. DWG:

SERVICE: SUPPRESSION POOL LEVEL. NORMALLY ENERGIZED, FAILS CLOSED

PO NO: M-245

FUNCTION: SUPPRESSION POOL LEVEL TRANSMITTER ISOLATION

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD	
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-212	TEST & ANAL.	
TEMPERATURE (F)	120	414	M-171	E-212	TEST	
PRESSURE (PSIA)	14.7	80.7	M-171	E-212	TEST	
RELATIVE HUMIDITY (%)	90	100	M-171	E-212	TEST	
RADIATION	3.7E6	5.90E7	M-171	E-212	TEST	
AGING	40 YRS.	40 YRS.	N/A	E-212	TEST	

INTERFACES:
CONDUIT SEAL REQUIRED.
REF. 801.

MAINTENANCE REQUIREMENTS:

REMARKS:

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 | PREPARED BY: DJT | DATE: 02/22/89 | REVISION DATE: 02/23/89

EQRR: 212 | REVIEWED BY: HJC | DATE: 02/23/89 | REVISION NO.: 0.0

SYSTEM: CONTAINMENT ATMOSPHERIC CONTROL

ACCY: SPEC: N/A
DEMON: N/A
REF: N/A

LOCATION: ROOM 575

PLANT ID: SV-57-232=

RACK/PANEL: N/A

COMPONENT: SOLENOID VALVE
ASSOC COMP: (X-28A)
ASSOC COMP: N/A

MODEL NO.: V526-5000-SERIES
ASSOC M/N: N/A
ASSOC M/N: N/A

ASSOC. DWG:

MANUFACTU: VALCOR
ASSOC MANF: N/A
ASSOC MANF: N/A

SERIAL NO: N/A
ASSOC S/N: N/A
ASSOC S/N: N/A

SERVICE: PRIMARY CONTAINMENT COMBUSTIBLE GAS ANALYZER INBAND DRYWELL SAMPLE ISO VALVE KEYLOCKED ENERGIZED OPEN. FAILS CLOSED.

PO NO: FIELD

FUNCTION: ISOLATED UPON CONTAINMENT ISOLATION SIGNALS (B,H,R). ISO CAN BE BYPASSED TO PERMIT SAMPLING OF H2O2 CONTENT AND PASS OF CONTAINMENT ATMOSPHERE FOR LOCA AND ALL LINE BREAKS.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	365 DAYS	M-171	E-212	TEST		
TEMPERATURE (F)	120	414	M-171	E-212	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	80.7	M-171	E-212	TEST		
RELATIVE HUMIDITY (%)	90	100	M-171	E-212	TEST		
RADIATION	4.03E6	5.90E7	M-171	E-212	TEST		REMARKS: RG 1.97
AGING	40 YRS.	40 YRS.	N/A	E-212	TEST		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 232 REVIEWED BY: WJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEN: CONTAINMENT ATMOSPHERIC CONTROL ACCY:SPEC: N/A LOCATION: ROOM 575

DEMON: N/A

PLANT ID: SV-57-233= REF: N/A RACK/PANEL: N/A

COMPONENT: SOLENOID VALVE MODEL NO.: V526-5000-SERIES

ASSOC COMP: (X-288) ASSOC M/N: N/A ASSOC. DWG:

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: VALCOR SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: PRIMARY CONTAINMENT COMBUSTIBLE GAS ANALYZER INBOARD DRYWELL ISO VALVE NORMALLY KEYLOCKED ENERGIZED OPEN. FAILS CLOSED. PO NO: M-245

FUNCTION: ISOLATES UPON CONTAINMENT ISOLATION SIGNAL (B,H,R). IT CAN BE BYPASSED TO PERMIT SAMPLING OF H202 CONTENT OF CONTAINMENT ATMOSPHERE LOCA AND ALL LINE BREAKS. SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES: CONDUIT SEAL REQUIRED. REF. 801.
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-212	TEST & ANAL.		
TEMPERATURE (F)	120	414	M-171	E-212	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	80.7	M-171	E-212	TEST		
RELATIVE HUMIDITY (%)	90	100	M-171	E-212	TEST		
RADIATION	4.03E6	5.90E7	M-171	E-212	TEST		REMARKS:
AGING	40 YRS.	40 YRS.	N/A	E-212	TEST		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 | PREPARED BY: DJT | DATE: 02/22/89 | REVISION DATE: 02/23/89

EQRR: 212 | REVIEWED BY: WJC | DATE: 02/23/89 | REVISION NO.: 0.0

SYSTEM: CONTAINMENT ATMOSPHERIC CONTROL

ACCY: SPEC: N/A
DEMON: N/A
REF: N/A

LOCATION: ROOM 575

PLANT ID: SV-57-234=

RACK/PANEL: N/A

COMPONENT: SOLENOID VALVE
ASSOC COMP: (X-28A)
ASSOC COMP: N/A

MODEL NO.: V526-5000-SERIES
ASSOC M/N: N/A
ASSOC M/N: N/A

ASSOC. DWG:

MANUFACTU: VALCOR
ASSOC MANF: N/A
ASSOC MANF: N/A

SERIAL NO: N/A
ASSOC S/N: N/A
ASSOC S/N: N/A

SERVICE: PRIMARY CONTAINMENT COMBUSTIBLE GAS ANALYZER SUBSYSTEM.
NORMALLY KEYLOCKED ENERGIZED OPEN. FAILS CLOSED.

PO NO: M-245

FUNCTION: ISOLATES UPON CONTAINMENT ISOLATION SIGNALS (B,H,R). CAN BE MANUALLY OPENED FROM CONTROL ROOM TO PERMIT SAMPLING OF H202 CONTENT OF CONTAINMENT ATMOS- LOCA AND ALL LINE BREAKS.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		CONDUIT SEAL REQUIRED. REF. 80i.
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-212	TEST & ANAL.		
TEMPERATURE (F)	120	414	M-171	E-212	TEST		MAINTENANCE REQUIPEMENTS:
PRESSURE (PSIA)	14.7	80.7	M-171	E-212	TEST		
RELATIVE HUMIDITY (%)	90	100	M-171	E-212	TEST		
RADIATION	4.03E6	5.90E7	M-171	E-212	TEST		REMARKS: RG 1.97
AGING	40 YRS.	40 YRS.	N/A	E-212	TEST		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 212 REVIEWED BY: WJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: CONTAINMENT ATMOSPHERIC CONTROL ACCY:SPEC: N/A LOCATION: ROOM 584

DEMON: N/A

PLANT ID: SV-57-239= REF: N/A RACK/PANEL: N/A

COMPONENT: SOLENOID VALVE MODEL NO.: V526-5000-SERIES

ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG:

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: VALCOR SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: CONTAINMENT ATMOSPHERIC PRESSURE INST. LINE SHUTOFF VALVE

PO NO: M-245

FUNCTION: PROVIDE MANUAL ISOLATION OF CONTAINMENT ATMOS. PRESSURE SAMPLE LINE. TO PT-57-139. FAILS CLOSED. NORMALLY ENERGIZED

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		CONDUIT SEAL REQUIRED. REF. 801.
OPERATING TIME	180 DAYS	189 DAYS	M-171	E-212	TEST & ANAL.		
TEMPERATURE (F)	210 (E)	414	M-171	E-212	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	17.5 (G)	80.7	M-171	E-212	TEST		
RELATIVE HUMIDITY (%)	100 (E)	100	M-171	E-212	TEST		
RADIATION	5.41E6	5.90E7	M-171	E-212	TEST		REMARKS: RG 1.97
AGING	40 YRS.	40 YRS.	N/A	E-212	TEST		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 | PREPARED BY: DJT | DATE: 02/22/89 | REVISION DATE: 02/23/89

EQRR: 212 | REVIEWED BY: MJC | DATE: 02/23/89 | REVISION NO.: 0.0

SYSTEM: CONTAINMENT ATMOSPHERIC CONTROL

ACCY: SPEC: N/A
DEMON: N/A
REF: N/A

LOCATION: ROOM 374

PLANT ID: SV-57-241=

RACK/PANEL: N/A

COMPONENT: SOLENOID VALVE
ASSOC COMP: (X-221A)
ASSOC COMP: N/A

MODEL NO.: V526-5000-SERIES
ASSOC M/N: N/A
ASSOC M/N: N/A

ASSOC. DNG:

MANUFACTU: VALCOR
ASSOC MANF: N/A
ASSOC MANF: N/A

SERIAL NO: N/A
ASSOC S/N: N/A
ASSOC S/N: N/A

SERVICE: PRIMARY CONTAINMENT COMBUSTIBLE GAS ANALYZER OUTBOARD SUPPRESSION POOL ISO VALVE NORMALLY ENERGIZED OPEN. FAILS CLOSED.

PO NO: M-245

FUNCTION: ISOLATES UPON CONTAINMENT ISOLATION SIGNALS (B,H,R). IT CAN BE BYPASSED TO PERMIT SAMPLING OF H202 CONTENT OF CONTAINMENT ATMOS- LOCA AND ALL LINE BREAKS.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES: CONDUIT SEAL REQUIRED. REF. 801.
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-212	TEST & ANAL.		
TEMPERATURE (F)	264	414	M-171	E-212	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	16.1	80.7	M-171	E-212	TEST		
RELATIVE HUMIDITY (%)	100	100	M-171	E-212	TEST		
RADIATION	5.4E6	5.90E7	M-171	E-212	TEST		REMARKS: RG 1.97
AGING	40 YRS.	40 YRS.	N/A	E-212	TEST		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 212 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: CONTAINMENT ATMOSPHERIC CONTROL ACCY: SPEC: N/A LOCATION: ROOM 575

DEMON: N/A

PLANT ID: SV-57-242= REF: N/A RACK/PANEL: N/A

COMPONENT: SOLENOID VALVE MODEL NO.: V526-5000-SERIES

ASSOC COMP: (X-28A) ASSOC M/N: N/A ASSOC. DWG:

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: VALCOR SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: PRIMARY CONTAINMENT COMBUSTIBLE GAS ANALYZER OUTBOARD DRYWELL ISO VALVE NORMALLY ENERGIZED OPEN. FAILS CLOSED. PO NO: M-245

FUNCTION: ISOLATES UPON CONTAINMENT ISOLATION SIGNALS (B,H,R). ISOLATION CAN BE BYPASSED TO PERMIT SAMPLING OF H202 CONTENT OF CONTAINMENT ATMOS- LOCA AND ALL LINE BREAKS. SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES: CONDUIT SEAL REQUIRED. REF. 801.
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-212	TEST & ANAL.		
TEMPERATURE (F)	120	414	M-171	E-212	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	80.7	M-171	E-212	TEST		
RELATIVE HUMIDITY (%)	90	100	M-171	E-212	TEST		
RADIATION	4.03E6	5.90E7	M-171	E-212	TEST		REMARKS: RG 1.97
AGING	40 YRS.	40 YRS.	N/A	E-212	TEST		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 212 REVIEWED BY: WJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: CONTAINMENT ATMOSPHERIC CONTROL ACCY:SPEC: N/A LOCATION: ROOM 575

DEMON: N/A

PLANT ID: SV-57-243= REF: N/A RACK/PANEL: N/A

COMPONENT: SOLENOID VALVE MODEL NO.: V526-5000-SERIES

ASSOC COMP: (X-28B) ASSOC M/N: N/A ASSOC. DWG:

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: VALCOR SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: PRIMARY CONTAINMENT COMBUSTIBLE GAS ANALYZER OUTBOARD DRYWELL ISO VALVE NORMALLY ENERGIZED OPEN. FAILS CLOSED. PO NO: M-245

FUNCTION: ISOLATES UPON CONTAINMENT ISOLATION SIGNALS (B,H,R). ISO CAN BE BYPASSED TO PERMIT SAMPLING OF H202 CONTENT OF CONTAINMENT ATMOS- LOCA AND ALL LINE BREAKS.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES: CONDUIT SEAL REQUIRED. REF. 801.
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-212	TEST & ANAL.		
TEMPERATURE (F)	120	414	M-171	E-212	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	80.7	M-171	E-212	TEST		
RELATIVE HUMIDITY (%)	90	100	M-171	E-212	TEST		
RADIATION	4.03E6	5.90E7	M-171	E-212	TEST		REMARKS: RG 1.97
AGING	40 YRS.	40 YRS.	N/A	E-212	TEST		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 212 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: CONTAINMENT ATMOSPHERIC CONTROL ACCY:SPEC: N/A LOCATION: ROOM 575

DEMON: N/A

PLANT ID: SV-57-244= REF: N/A RACK/PANEL: N/A

COMPONENT: SOLENOID VALVE MODEL NO.: V526-5000-SERIES

ASSOC COMP: (X-28A) ASSOC M/N: N/A ASSOC. DWG:

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: VALCOR SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: PRIMARY CONTAINMENT COMBUSTIBLE GAS ANALYZER OUTBOUND DRYWELL ISO VALVE NORMALLY KEYLOCKED ENERGIZED OPEN. FAILS CLOSED. PO NO: M-245

FUNCTION: ISOLATES UPON CONTAINMENT ISOLATION SIGNALS (B.H.R.). ISO CAN BE BYPASSED TO PERMIT SAMPLING OF H202 CONTENT OF CONTAINMENT ATMOS- LOCA AND ALL LINE BREAKS.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES: CONDUIT SEAL REQUIRED. REF. 801.
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-212	TEST & ANAL.		
TEMPERATURE (F)	120	414	M-171	E-212	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	80.7	M-171	E-212	TEST		
RELATIVE HUMIDITY (%)	90	100	M-171	E-212	TEST		
RADIATION	4.03E6	5.90E7	M-171	E-212	TEST		REMARKS: RG 1.97
AGING	40 YRS.	40 YRS.	N/A	E-212	TEST		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 212 REVIEWED BY: WJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: CONTAINMENT ATMOSPHERIC CONTROL ACCY: SPEC: N/A LOCATION: ROOM 580

DEMON: N/A

PLANT ID: SV-57-245= REF: N/A RACK/PANEL: N/A

COMPONENT: SOLENOID VALVE MODEL NO.: V526-5000-SERIES

ASSOC COMP: (X-26) ASSOC M/N: N/A ASSOC. DWG:

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: VALCOR SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: PRIMARY CONTAINMENT COMBUSTIBLE GAS ANALYZER OUTBOARD DRYWELL ISO VALVE NORMALLY ENERGIZED OPEN. FAILS CLOSED. PO NO: M-245

FUNCTION: ISOLATES UPON CONTAINMENT ISOLATION SIGNALS (B,H,R). ISO CAN BE BYPASSED TO PERMIT SAMPLING OF H202 CONTENT OF CONTAINMENT ATMOS- LOCA AND ALL LINE BREAKS.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES: CONDUIT SEAL REQUIRED. REF. 801.
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-212	TEST & ANAL.		
TEMPERATURE (F)	120	414	M-171	E-212	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	80.7	M-171	E-212	TEST		
RELATIVE HUMIDITY (%)	90	100	M-171	E-212	TEST		
RADIATION	3.9E6	5.90E7	M-171	E-212	TEST		REMARKS: RG 1.97
AGING	40 YRS.	40 YRS.	N/A	E-212	TEST		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 212 REVIEWED BY: WJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: CONTAINMENT ATMOSPHERIC CONTROL ACCY: SPEC: N/A LOCATION: ROOM 374

DEMON: N/A

PLANT ID: SV-57-246A= REF: N/A RACK/PANEL: N/A

COMPONENT: SOLENOID VALVE MODEL NO.: V526-5000-SERIES

ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG:

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: VALCOR SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: SUPPRESSION POOL ATMOSPHERIC SAMPLE (PASS) SHUTOFF VALVE. FAILS CLOSED PO NO: M-245

FUNCTION: FORMALLY OPENED TO PROVIDE ATMOSPHERIC SAMPLE TO PASS AFTER LOCA. REMAINS CLOSED TO MAINTAIN FLOW PATTERN TO H202 ANALYZED SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES: CONDUIT SEAL REQUIRED. REF. 801.
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-212	TEST & ANAL.		
TEMPERATURE (F)	264	414	M-171	E-212	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	16.1	80.7	M-171	E-212	TEST		
RELATIVE HUMIDITY (%)	100	100	M-171	E-212	TEST		
RADIATION	5.4E66	5.90E7	M-171	E-212	TEST		REMARKS:
AGING	40 YRS.	40 YRS.	N/A	E-212	TEST		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 212 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: CONTAINMENT ATMOSPHERIC CONTROL ACCY:SPEC: N/A LOCATION: ROOM 575

DEMON: N/A

PLANT ID: SV-57-246B= REF: N/A RACK/PANEL: N/A

COMPONENT: SOLENOID VALVE MODEL NO.: V526-5000-SERIES

ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG:

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: VALCOR SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: SUPPRESSION POOL ATMOSPHERIC SAMPLE (PASS) SHUTOFF VALVE. NORMALLY DEENERGIZED FAILS CLOSED PO NO: M-245

FUNCTION: MANUALLY OPENED TO PROVIDE ATMOSPHERIC SAMPLE TO PASS AFTER LOCA. REMAINS CLOSED TO MAINTAIN FLOW PATTERN TO H202 ANALYZER. SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		CONDUIT SEAL REQUIRED. REF. 801.
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-212	TEST & ANAL.		
TEMPERATURE (F)	120	414	M-171	E-212	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	80.7	M-171	E-212	TEST		
RELATIVE HUMIDITY (%)	90	100	M-171	E-212	TEST		
RADIATION	4.03E6	5.90E7	M-171	E-212	TEST		REMARKS:
AGING	40 YRS.	40 YRS.	N/A	E-212	TEST		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 212 REVIEWED BY: WJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: CONTAINMENT ATMOSPHERIC CONTROL ACCY:SPEC: N/A LOCATION: ROOM 370

DEMON: N/A

PLANT ID: SV-57-247A= REF: N/A RACK/PANEL: N/A

COMPONENT: SOLENOID VALVE MODEL NO.: V526-5000-SERIES

ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG:

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: VALCOR SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: PASS-SUPPRESSORS POOL SHUTOFF VALVE. NORMALLY DEENERGIZED. FAILS CLOSED PO NO: M-245

FUNCTION: MANUALLY PROVIDE DRYWELL ATMOSPHERIC SAMPLE TO SAMPLING SYSTEM AFTER LOCA. REMAINS CLOSED TO MAINTAIN FLOW PATTERN TO H202 ANALYZER SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES: CONDUIT SEAL REQUIRED. REF. 801.
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-212	TEST & ANAL.		
TEMPERATURE (F)	120	414	M-171	E-212	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	80.7	M-171	E-212	TEST		
RELATIVE HUMIDITY (%)	90	100	M-171	E-212	TEST		
RADIATION	4.15E6	5.90E7	M-171	E-212	TEST		REMARKS:
AGING	40 YRS.	40 YRS.	N/A	E-212	TEST		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 212 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: CONTAINMENT ATMOSPHERIC CONTROL ACCY:SPEC: N/A LOCATION: ROOM 575

DEMON: N/A

PLANT ID: SV-57-247B= REF: N/A RACK/PANEL: N/A

COMPONENT: SOLENOID VALVE MODEL NO.: V526-5000-SERIES

ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG:

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: VALCOR SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: DRYWELL ATMOSPHERIC SAMPLE (PASS)
SHUTOFF VALVE NORMALLY DEENERGIZED. FAILS CLOSED PO NO: M-245

FUNCTION: MANUALLY OPENED TO PROVIDE DRYWELL ATOMSPHERIC SAMPLE TO SAMPLING SYSTEM
AFTER LOCA. REMAINS CLOSED TO MAINTAIN FLOW PATTERN TO H202 ANALYZER SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES: CONDUIT SEAL REQUIRED. REF. 801.
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-212	TEST & ANAL.		
TEMPERATURE (F)	120	414	M-171	E-212	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	80.7	M-171	E-212	TEST		
RELATIVE HUMIDITY (%)	90	100	M-171	E-212	TEST		
RADIATION	4.03E6	5.90E7	M-171	E-212	TEST		REMARKS:
AGING	40 YRS.	40 YRS.	N/A	E-212	TEST		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 | PREPARED BY: DJT | DATE: 02/22/89 | REVISION DATE: 02/23/89

EQRR: 212 | REVIEWED BY: MJC | DATE: 02/23/89 | REVISION NO.: 0.0

SYSTEM: CONTAINMENT ATMOSPHERIC CONTROL | ACCY: SPEC: N/A, DEMON: N/A | LOCATION: ROOM 376

PLANT ID: SV-57-250= | REF: N/A | RACK/PANEL: N/A

COMPONENT: SOLENOID VALVE | MODEL NO.: V526-5000-SERIES

ASSOC COMP: N/A | ASSOC M/N: N/A | ASSOC. DWG:

ASSOC COMP: N/A | ASSOC M/N: N/A

MANUFACTU: VALCOR | SERIAL NO: N/A

ASSOC MANF: N/A | ASSOC S/N: N/A

ASSOC MANF: N/A | ASSOC S/N: N/A

SERVICE: PRIMARY CONTAINMENT COMBUSTIBLE GAS ANALYZER INBOARD SAMPLE RETUM VALVE NORMALLY ENERGIZED OPEN. FAILS CLOSED.

PO NO: M-245C

FUNCTION: ISOLATES UPON CONTAINMENT ISOLATION SIGNALS (B,H,R). IT CAN BE BYPASSED TO PERMIT SAMPLING OF H202 CONTENT OF CONTAINMENT ATMOSPHERE LOCA.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-212	TEST & ANAL.		
TEMPERATURE (F)	264	414	M-171	E-212	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	16.1	80.7	M-171	E-212	TEST		
RELATIVE HUMIDITY (%)	100	100	M-171	E-212	TEST		
RADIATION	5.4E66	5.90E7	M-171	E-212	TEST		REMARKS: RG 1.97
AGING	40 YRS.	40 YRS.	N/A	E-212	TEST & ANAL.		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 212 REVIEWED BY: WJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: CONTAINMENT ATMOSPHERIC CONTROL ACCY:SPEC: N/A LOCATION: ROOM 376

DEMON: N/A

PLANT ID: SV-57-259= REF: N/A RACK/PANEL: N/A

COMPONENT: SOLENOID VALVE MODEL NO.: V526-5000-SERIES

ASSOC COMP: (X-62) ASSOC M/N: N/A ASSOC. DWG:

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: VALCOR SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: PRIMARY CONTAINMENT COMBUSTIBLE GAS ANALYZER OUTBOARD ISO VALVE NORMALLY ENERGIZED OPEN. FAILS CLOSED. PO NO: M-245

FUNCTION: IT CAN BE BYPASSED ISOLATES UPON CONTAINMENT ISOLATION SIGNALS (B,H,R). TO PERMIT SAMPLING OF H202 CONTENT OF CONTAINMENT ATMOS- LOCA AND ALL LINE BREAKS. SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES: CONDUIT SEAL REQUIRED. REF. 801.
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-212	TEST & ANAL.		
TEMPERATURE (F)	264	414	M-171	E-212	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	16.1	80.7	M-171	E-212	TEST		
RELATIVE HUMIDITY (%)	100	100	M-171	E-212	TEST		
RADIATION	5.4E6	5.90E7	M-171	E-212	TEST		REMARKS: 1.97
AGING	40 YRS.	60 YRS.	N/A	E-212	TEST		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 212 REVIEWED BY: WJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: CONTAINMENT ATMOSPHERIC CONTROL ACCY: SPEC: N/A LOCATION: ROOM 574

DEMON: N/A

PLANT ID: SV-57-272= REF: N/A RACK/PANEL: N/A

N/A

COMPONENT: SOLENOID VALVE MODEL NO.: V526-5000-SERIES

ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG:

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: VALCOR SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: EMERGENCY SUPPLY OF REAGENT GAS FOR H2 ANALYZER. NORMALLY ENERGIZED-CLOSED, FAIL OPEN.

PO NO: M-245C

FUNCTION: CAN BE MANUALLY OPENED TO PROVIDE BACKUP H2 REAGENT GAS FOR H202 ANALYZER LOCA.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION		INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD	OUTSTANDING ITEMS	
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-212	TEST & ANAL.		
TEMPERATURE (F)	120	414	M-171	E-212	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	80.7	M-171	E-212	TEST		
RELATIVE HUMIDITY (%)	90	100	M-171	E-212	TEST		
RADIATION	3.7E6	5.90E7	M-171	E-212	TEST		REMARKS: RG 1.97
AGING	40 YRS.	40 YRS.	N/A	E-212	TEST & ANAL.		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 212 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: CONTAINMENT ATMOSPHERIC CONTROL ACCY: SPEC: N/A LOCATION: ROOM 573

DEMON: N/A

PLANT ID: SV-57-273= REF: N/A RACK/PANEL: N/A

N/A

COMPONENT: SOLENOID VALVE MODEL NO.: V526-5000-SERIES

ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG:

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: VALCOR SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: EMERGENCY SUPPLY OF REAGENT GAS FOR H2 ANALYZER. NORMALLY ENERGIZED-CLOSED FAIL OPEN.

PO NO: M-245C

FUNCTION: CAN BE MANUALLY OPENED TO PROVIDE BACKUP H2 REAGENT GAS TO H202 ANALYZER LOCA.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	190 DAYS	M-171	E-212	TEST & ANAL.		
TEMPERATURE (F)	120	414	M-171	E-212	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	80.7	M-171	E-212	TEST		
RELATIVE HUMIDITY (%)	90	100	M-171	E-212	TEST		
RADIATION	3.7E66	5.90E7	M-171	E-212	TEST		REMARKS: RG 1.97
AGING	40 YRS.	40 YRS.	N/A	E-212	TEST & ANAL.		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 212 REVIEWED BY: WJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: CONTAINMENT ATMOSPHERIC CONTROL ACCY:SPEC: N/A LOCATION: ROOM 475

DEMON: N/A

PLANT ID: SV-57-276= REF: N/A RACK/PANEL: N/A

N/A

COMPONENT: SOLENOID VALVE MODEL NO.: V526-5000-SERIES

ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG:

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: VALCOR SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: EMERGENCY SUPPLY OF REAGENT GAS FOR H2 ANALYZER. NORMALLY ENERGIZED-CLOSED FAIL OPEN PO NO: M-245C

FUNCTION: CAN BE MANUALLY OPENED TO PROVIDE BACKUP H2 REAGENT GAS FOR H202 ANALYZER LOCA. SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-212	TEST & ANAL.		
TEMPERATURE (F)	120	414	M-171	E-212	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	80.7	M-171	E-212	TEST		
RELATIVE HUMIDITY (%)	90	100	M-171	E-212	TEST		
RADIATION	4.19E6	5.90E7	M-171	E-212	TEST		REMARKS: RG 1.97
AGING	40 YRS.	40 YRS.	N/A	E-212	TEST & ANAL.		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 212 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: CONTAINMENT ATMOSPHERIC CONTROL ACCY: SPEC: N/A LOCATION: ROOM 475

DEMON: N/A

PLANT ID: SV-57-277= REF: N/A RACK/PANEL: N/A

N/A

COMPONENT: SOLENOID VALVE MODEL NO.: V526-5000-SERIES

ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG:

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: VALCOR SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: NORMALLY OPEN TO PERMIT FLOW OF PRIMARY CONTAINMENT GAS TO THE COMBUSTIBLE GAS ANALYZER FOR H2O2 CONTENT VERIFICATION. PO NO: M-245C

FUNCTION: CLOSES UPON LCOA SIGNAL TO PROVIDE PRIMARY CONTAINMENT ISOLATION. SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-212	TEST & ANAL.		
TEMPERATURE (F)	120	414	M-171	E-212	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	80.7	M-171	E-212	TEST		
RELATIVE HUMIDITY (%)	90	100	M-171	E-212	TEST		
RADIATION	4.19E6	5.90E7	M-171	E-212	TEST		REMARKS: RG 1.97
AGING	40 YRS.	40 YRS.	N/A	E-212	TEST & ANAL.		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 212 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: CONTAINMENT ATMOSPHERIC CONTROL ACCY:SPEC: N/A LOCATION: ROOM 374

DEMON: N/A

PLANT ID: SV-57-281= REF: N/A RACK/PANEL: N/A

COMPONENT: SOLENOID VALVE MODEL NO.: V526-5000-SERIES

ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG:

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: VALCOR SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: NORMALLY ENERGIZED OPEN. FAILS CLOSED.
COMBUSTIBLE GAS ANALYZER INBOARD SUPP POOL ISO VALVE. PO NO: M-245C

FUNCTION: IT CAN BE BYPASSED ISOLATES UPON CONTAINMENT ISOLATION SIGNALS (B,H,R).
TO PERMIT SAMPLING OF H202 CONTENT OF CONTAINMENT ATMOS- SUBMERGENCE: N/A
LOCA AND ALL LINE BREAKS.

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		INTERFACE WIRING SHALL BE VALCOR P/N S1350-2 ELECTRIC WIRE (REF 196)
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-212	TEST & ANAL.		
TEMPERATURE (F)	264	414	M-171	E-212	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	16.1	80.7	M-171	E-212	TEST		
RELATIVE HUMIDITY (%)	100	100	M-171	E-212	TEST		
RADIATION	5.4E6	5.90E7	M-171	E-212	TEST		REMARKS: RG 1.97
AGING	40 YRS.	40 YRS.	N/A	E-212	TEST & ANAL.		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 212 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: CONTAINMENT ATMOSPHERIC CONTROL ACCY:SPEC: N/A LOCATION: ROOM 375

DEMON: N/A

PLANT ID: SV-57-283= REF: N/A RACK/PANEL: N/A

COMPONENT: SOLENOID VALVE MODEL NO.: V526-5000-SERIES

ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG:

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: VALCOR SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: PRIMARY CONTAINMENT COMBUSTIBLE GAS ANALYZER SUBSYSTEM.
NORMALLY KEYLOCKED ENERGIZED OPEN. FAILS CLOSED. PO NO: M-245C

FUNCTION: ISOLATES UPON CONTAINMENT ISOLATION SIGNALS (B,H,R). CAN BE MANUALLY OPENED FROM CONTROL ROOM TO PERMIT SAMPLING OF H202 CONTENT OF CONTAINMENT ATMOSPHERE POST LOCA

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		INTERFACE WIRING SHALL BE VALCOR P/N S1350-2 ELECTRIC WIRE (REF 196)
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-212	TEST & ANAL.		
TEMPERATURE (F)	264	414	M-171	E-212	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	16.1	80.7	M-171	E-212	TEST		
RELATIVE HUMIDITY (%)	100	100	M-171	E-212	TEST		
RADIATION	5.4E66	5.90E7	M-171	E-212	TEST		REMARKS: RG 1.97
AGING	40 YRS.	40 YRS.	N/A	E-212	TEST & ANAL.		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 212 REVIEWED BY: HJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: CONTAINMENT ATMOSPHERIC CONTROL ACCY:SPEC: N/A LOCATION: ROOM 375
DEMON: N/A
PLANT ID: SV-57-286= REF: N/A RACK/PANEL: N/A

COMPONENT: SOLENOID VALVE MODEL NO.: V526-5000-SERIES
ASSOC COMP: (X-221B) ASSOC M/N: N/A ASSOC. DWG:
ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: VALCOR SERIAL NO: N/A
ASSOC MANF: N/A ASSOC S/N: N/A
ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: PRIMARY CONTAINMENT COMBUSTIBLE GAS ANALYZER SUBSYSTEM.
NORMALLY KEYLOCKED ENERGIZED OPEN. FAILS CLOSED. PO NO: M-245

FUNCTION: ISOLATES UPON CONTAINMENT ISOLATION SIGNALS (B,H,R). CAN BE MANUALLY OPENED FROM CONTROL ROOM TO PERMIT SAMPLING OF H202 CONTENT OF CONTAINMENT ATMOS-
LOCA AND ALL LINE BREAKS. SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES: CONDUIT SEAL REQUIRED. REF. 801.
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-212	TEST & ANAL		
TEMPERATURE (F)	264	414	M-171	E-212	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	16.1	80.7	M-171	E-212	TEST		
RELATIVE HUMIDITY (%)	100	100	M-171	E-212	TEST		
RADIATION	5.4E66	5.90E7	M-171	E-212	TEST		REMARKS: RG 1.97
AGING	40 YRS.	40 YRS.	N/A	E-212	TEST		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 212 REVIEWED BY: NJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: CONTAINMENT ATMOSPHERIC CONTROL ACCY:SPEC: N/A LOCATION: ROOM 284

DEMON: N/A

PLANT ID: SV-57-290= REF: N/A RACK/PANEL: N/A

COMPONENT: SOLENOID VALVE MODEL NO.: V526-5000-SERIES

ASSOC COMP: (X-220A) ASSOC M/N: N/A ASSOC. DMG:

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: VALCOR SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: PRIMARY CONTAINMENT COMBUSTIBLE GAS ANALYZER SUBSYSTEM.
NORMALLY KEYLOCKED ENERGIZED OPEN. FAILS CLOSED.

PO NO: M-245

FUNCTION: ISOLATES UPON CONTAINMENT ISOLATION SIGNALS (B,H,R). CAN BE MANUALLY OPENED FROM CONTROL ROOM TO PERMIT SAMPLING OF H2O2 CONTENT OF CONTAINMENT ATMOS-
LOCA AND ALL LINE BREAKS.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		CONDUIT SEAL REQUIRED. REF. 801.
OPERATING TIME	120 DAYS	180 DAYS	M-171	E-212	TEST		
TEMPERATURE (F)	120	414	M-171	E-212	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	80.7	M-171	E-212	TEST		
RELATIVE HUMIDITY (%)	90	100	M-171	E-212	TEST		
RADIATION	3.7E66	5.90E7	M-171	E-212	TEST		REMARKS: RG 1.97
AGING	40 YRS.	40 YRS.	N/A	E-212	TEST		

DEFICIENCY RESOLUTION:

QUAL STD - 10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 212 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: CONTAINMENT ATMOSPHERIC CONTROL ACCY:SPEC: N/A LOCATION: ROOM 284

DEMON: N/A

PLANT ID: SV-57-291= REF: N/A RACK/PANEL: N/A

COMPONENT: SOLENOID VALVE MODEL NO.: V526-5000-SERIES

ASSOC COMP: (X-220A) ASSOC M/N: N/A ASSOC. DWG:

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: VALCOR SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: PRIMARY CONTAINMENT COMBUSTIBLE GAS ANALYZER SUBSYSTEM. NORMALLY KEYLOCKED ENERGIZED OPEN. FAILS CLOSED. PO NO: M-245

FUNCTION: ISOLATES UPON CONTAINMENT ISOLATION SIGNALS (B,H,R). CAN BE MANUALLY OPENED FROM CONTROL ROOM TO PERMIT SAMPLING OF H202 CONTENT OF CONTAINMENT ATMOS- LOCA AND ALL LINE BREAKS. SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		CONDUIT SEAL REQUIRED. REF. 801.
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-212	TEST & ANAL		
TEMPERATURE (F)	120	414	M-171	E-212	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	80.7	M-171	E-212	TEST		
RELATIVE HUMIDITY (%)	90	100	M-171	E-212	TEST		
RADIATION	3.7E6	5.90E7	M-171	E-212	TEST		REMARKS: RG 1.97
AGING	40 YRS.	40 YRS.	N/A	E-212	TEST		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 212 REVIEWED BY: HJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: CONTAINMENT ATMOSPHERIC CONTROL ACCY: SPEC: N/A LOCATION: ROOM 575
DEMON: N/A
PLANT ID: SV-57-295= REF: N/A RACK/PANEL: N/A

COMPONENT: SOLENOID VALVE MODEL NO.: V526-5000-SERIES
ASSOC COMP: (X-28B) ASSOC M/N: N/A ASSOC. DWG:
ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: VALCOR SERIAL NO: N/A
ASSOC MANF: N/A ASSOC S/N: N/A
ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: PRIMARY CONTAINMENT COMBUSTIBLE GAS ANALYZER SUBSYSTEM.
NORMALLY KEYLOCKED ENERGIZED OPEN. FAILS CLOSED. PO NO: M-245

FUNCTION: ISOLATES UPON CONTAINMENT ISOLATION SIGNALS (B,H,R). CAN BE MANUALLY OPENED FROM CONTROL ROOM TO PERMIT SAMPLING OF H202 CONTENT OF CONTAINMENT ATMOS- LOCA AND ALL LINE BREAKS. SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES: CONDUIT SEAL REQUIRED. REF. 801.
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-212	TEST & ANAL.		
TEMPERATURE (F)	120	414	M-171	E-212	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	80.7	M-171	E-212	TEST		
RELATIVE HUMIDITY (%)	90	100	M-171	E-212	TEST		
RADIATION	4.03E6	5.90E7	M-171	E-212	TEST		REMARKS: RG 1.97
AGING	40 YRS.	40 YRS.	N/A	E-212	TEST		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 212 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: PRIMARY CONTAINMENT INSTRUMENT GAS ACCY: SPEC: N/A LOCATION: ROOM 370
DEMON: N/A
PLANT ID: SV-59-250A= REF: N/A RACK/PANEL: N/A
N/A
COMPONENT: SOLENOID VALVE MODEL NO.: V526-5000-SERIES
ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG:
ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: VALCOR SERIAL NO: N/A
ASSOC MANF: N/A ASSOC S/N: N/A
ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: NORMALLY OPEN TO PERMIT FLOW OF PRIMARY CONTAINMENT INSTRUMENT GAS TO THE ADS RELIEF VALVES PO NO: M-245C

FUNCTION: CLOSES ON INST. GAS LO-PRESS SIGNAL TO PROVIDE ISOLATION OF LONG TERM N2 SUPPLY FROM NORMAL N2 SUPPLY. SUBMERSENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-212	TEST & ANAL.		
TEMPERATURE (F)	120	414	M-171	E-212	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	80.7	M-171	E-212	TEST		
RELATIVE HUMIDITY (%)	90	100	M-171	E-212	TEST		
RADIATION	4.15E6	5.90E7	M-171	E-212	TEST		REMARKS:
AGING	40 YRS.	40 YRS.	N/A	E-212	TEST & ANAL.		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 212 REVIEWED BY: WJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: PRIMARY CONTAINMENT INSTRUMENT GAS ACCY:SPEC: N/A LOCATION: ROOM 370

DEMON: N/A

PLANT ID: SV-59-250B= REF: N/A RACK/PANEL: N/A

N/A

COMPONENT: SOLENOID VALVE MODEL NO.: V526-5000-SERIES

ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG:

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: VALCOR SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: NORMALLY OPEN TO PERMIT FLOW OF PRIMARY CONTAINMENT INSTRUMENT GAS TO THE ADS RELIEF VALVES PO NO: M-245C

FUNCTION: CLOSES ON INST. GAS LO-PRESS SIGNAL TO PROVIDE ISOLATION OF LONG TERM N2 SUPPLY FROM NORMAL N2 SUPPLY.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-212	TEST & ANAL.		
TEMPERATURE (F)	120	414	M-171	E-212	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	60.7	M-171	E-212	TEST		
RELATIVE HUMIDITY (%)	90	100	M-171	E-212	TEST		
RADIATION	4.15E6	5.90E7	M-171	E-212	TEST		REMARKS:
AGING	40 YRS.	40 YRS.	N/A	E-212	TEST & ANAL.		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 212 REVIEWED BY: WJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: PRIMARY CONTAINMENT INSTRUMENT GAS ACCY:SPEC: N/A LOCATION: ROOM 370
DEMON: N/A
PLANT ID: SV-59-252A= REF: N/A RACK/PANEL: N/A
N/A
COMPONENT: SOLENOID VALVE MODEL NO.: VS26-5000-SERIES
ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG:
ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: VALCOR SERIAL NO: N/A
ASSOC MANF: N/A ASSOC S/N: N/A
ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: LONG TERM N2 SUPPLY.
PO NO: M-245C

FUNCTION: OPENS ON INST. GAS LO-PRESS TO PROVIDE LONG TERM N2 SUPPLY TO ADS VALVES
SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-212	TEST & ANAL.		
TEMPERATURE (F)	120	414	M-171	E-212	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	80.7	M-171	E-212	TEST		
RELATIVE HUMIDITY (%)	90	100	M-171	E-212	TEST		
RADIATION	4.15E6	5.90E7	M-171	E-212	TEST		REMARKS:
AGING	40 YRS.	40 YRS.	N/A	E-212	TEST & ANAL.		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 | PREPARED BY: DJT | DATE: 02/22/89 | REVISION DATE: 02/23/89

EQRR: 212 | REVIEWED BY: MJC | DATE: 02/23/89 | REVISION NO.: 0.0

SYSTEM: PRIMARY CONTAINMENT INSTRUMENT GAS

ACCY: SPEC: N/A
DEMON: N/A
REF: N/A

LOCATION: ROOM 370

PLANT ID: SV-59-252B=

RACK/PANEL: N/A
N/A

COMPONENT: SOLENOID VALVE

MODEL NO.: V526-5000-SERIES

ASSOC COMP: N/A

ASSOC M/N: N/A

ASSOC. DWG:

ASSOC COMP: N/A

ASSOC M/N: N/A

MANUFACTU: VALCOR

SERIAL NO: N/A

ASSOC MANF: N/A

ASSOC S/N: N/A

ASSOC MANF: N/A

ASSOC S/N: N/A

SERVICE: LONG TERM N2 SUPPLY.

PO NO: M-245C

FUNCTION: OPENS ON INST. GAS LOW PRESS. SIGNAL TO PROVIDE LONG TERM N2 SUPPLY TO ADS VALVES.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-212	TEST & ANAL.		
TEMPERATURE (F)	120	414	M-171	E-212	TEST		MAINTENANCE REQUIREMENTS:
PRESSURE (PSIA)	14.7	80.7	M-171	E-212	TEST		
RELATIVE HUMIDITY (%)	90	100	M-171	E-212	TEST		
RADIATION	4.15E6	5.90E7	M-171	E-212	TEST		REMARKS:
AGING	40 YRS.	40 YRS.	N/A	E-212	TEST & ANAL.		

DEFICIENCY RESOLUTION:

QUAL STD-10CFR50.49

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 015 REVIEWED BY: MJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: 440V LOAD CENTERS & MCCS ACCY: SPEC: N/A LOCATION: ROOM 475

DEMON: N/A

PLANT ID: 20X203= REF: N/A RACK/PANEL: N/A

COMPONENT: TRANSFORMER MODEL NO.: 750 KVA

ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A

ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: WESTINGHOUSE SERIAL NO: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: 480 VOLT LOAD CENTER 20B203.

PO NO: E-10

FUNCTION: CLASS 1E POWER DISTRIBUTION, STEP DOWN TRANSFORMER-4160/480 VOLTS. REQUIRED FOR LOCA AND ALL HELBS.

SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES:
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		LUGS: EQRR 171 CABLE: EQRR 22
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-15	TEST & ANAL.		
TEMPERATURE (F)	120	120	M-171	E-15	TEST & ANAL.		MAINTENANCE REQUIREMENTS: SEE EQ-RELATED MAINTENANCE
PRESSURE (PSIA)	14.7	14.7	M-171	E-15	TEST & ANAL.		TASK SHEETS, SECTION 6 OF EQ PACKAGE 15.
RELATIVE HUMIDITY (%)	90	100	M-171	E-15	TEST & ANAL.		REF-184.
RADIATION	2.82E5	1.00 E6	M-171	E-15	TEST & ANAL.		REMARKS: BPC DCN 189830, DATED 11/12/84 RECOMMENDS THAT TO EXTEND QUAL. LIFES OF COMPS. THE AREA TEMP WHERE THE XFORMERS ARE LOCATED BE MONITORED FOR 1 YR AS WELL AS MONITORING ACTUAL LOADING CONDS FOR EACH XFORMER (1YR)
AGING	40 YRS.	20 YRS.	N/A	E-15	TEST & ANAL.		QUAL STD-10CFR50.49

DEFICIENCY RESOLUTION:

FACILITY: LGS UNIT: 2 DOCKET: 50-353 PREPARED BY: DJT DATE: 02/22/89 REVISION DATE: 02/23/89

EQRR: 015 REVIEWED BY: WJC DATE: 02/23/89 REVISION NO.: 0.0

SYSTEM: 440V LOAD CENTERS & MCCS ACCY:SPEC: N/A LOCATION: ROOM 580C
DEMON: N/A
PLANT ID: 20X204= REF: N/A RACK/PANEL: N/A

COMPONENT: TRANSFORMER MODEL NO.: 750 KVA
ASSOC COMP: N/A ASSOC M/N: N/A ASSOC. DWG: N/A
ASSOC COMP: N/A ASSOC M/N: N/A

MANUFACTU: WESTINGHOUSE SERIAL NO: N/A
ASSOC MANF: N/A ASSOC S/N: N/A
ASSOC MANF: N/A ASSOC S/N: N/A

SERVICE: 480 VOLT LOAD CENTER 20B204.
PO NO: E-10

FUNCTION: CLASS 1E POWER DISTRIBUTION, STEP DOWN TRANSFORMER-4160/480 VOLTS.
REQUIRED FOR LOCA AND ALL HELBS. SUBMERGENCE: N/A

CHEMICAL SPRAY: N/A

PARAMETER	ENVIRONMENT		DOCUMENTATION REFERENCE		QUALIFICATION	OUTSTANDING ITEMS	INTERFACES: LUGS: EQRR 171 CABLE: EQRR 22
	SPECIFICATION	QUALIFICATION	SPECIFICATION	QUALIFICATION	METHOD		
OPERATING TIME	180 DAYS	180 DAYS	M-171	E-15	TEST & ANAL.		
TEMPERATURE (F)	120	120	M-171	E-15	TEST & ANAL.		MAINTENANCE REQUIREMENTS: SEE EQ-RELATED MAINTENANCE TASK SHEETS, SECTION 6 OF EQ PACKAGE 15.
PRESSURE (PSIA)	14.7	14.7	M-171	E-15	TEST & ANAL.		
RELATIVE HUMIDITY (%)	90	100	M-171	E-15	TEST & ANAL.		REF-184.
RADIATION	2.82E5	1.00 E6	M-171	E-15	TEST & ANAL.		REMARKS: BPC DCN 189830, DATED 11/12/84 RECOMMENDS THAT TO EXTEND QUAL. LIFES OF COMPS., THE AREA TEMP WHERE THE XFORMERS ARE LOCATED BE MONITORED FOR 1 YR AS WELL AS MONITORING ACTUAL LOADING CONDS. FOR EACH XFORMER FOR 1 YR.
AGING	40 YRS.	20 YRS.	N/A	E-15	TEST & ANAL.		QUAL STD-10CFR50.49

DEFICIENCY RESOLUTION: