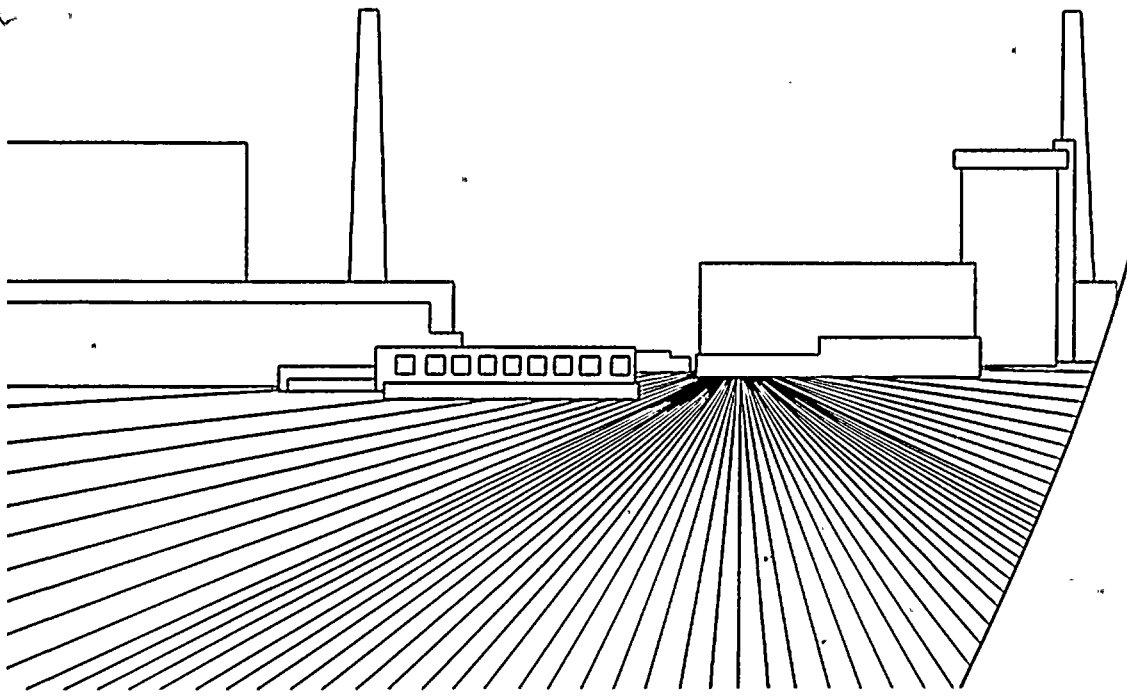
ENVIRONMENTAL QUALIFICATION DOCUMENT

NINE MILE POINT NUCLEAR STATION — UNIT 2

NIAGARA MOHAWK



VOL. 1

Nine Mile Point Unit 2 EQD

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SECTION 1

INTRODUCTION

The purpose of this document is to establish the methods and summarize the results of the environmental qualification program for Nine Mile Point Unit 2. The information supports Section 3.11 of the Final Safety Analysis Report (FSAR) and is provided in accordance with 10CFR50.49 and the guidance of Appendix E, NUREG 0588, Interim Staff Position on Environmental Qualification of Safety-Related Electrical Equipment, December 1979.

For mechanical equipment, the information supports Section 3.11 of the FSAR and provides the additional information requested in NRC Question 270.3(f).

SECTION 2

ENVIRONMENTAL CONDITIONS

The Equipment Qualification Environmental Design Criteria (EQEDC)[1] document summarizes the indoor environmental design conditions for normal, abnormal, and accident conditions.

The scope of the EQEDC is limited to establishing the environmental conditions of temperature, pressure, humidity, and radiation (beta, gamma, and neutron). Seismic and hydrodynamic loading conditions are not within the scope of the EQEDC.

These parameters are the environmental design limits to which safety-related equipment is designed and qualified. These data have been incorporated into safety-related equipment design or procurement specifications to ensure that the proper functional performance of the system or equipment during design mode of operation is adequately demonstrated.

The environmental data for temperature, pressure, humidity, and radiation are defined in the EQEDC for each building zone that contains equipment which requires environmental qualification. Data are listed for normal operating conditions, abnormal operating conditions, and the accident event that impacts the zone ambient environment.

The harsh environment zones are listed in Table 2-1. Mild environmental zones are listed in Table 2-2.

2.1 TEMPERATURE, PRESSURE, AND RELATIVE HUMIDITY

The plant heating, ventilating, and air conditioning (HVAC) systems maintain indoor temperature and pressure conditions in QA Category I buildings for all normal operating modes. Minimum, average, and maximum temperatures are defined and listed in the EQEDC. During normal operation relative humidity is not controlled but is limited to a specified maximum percentage in areas that are mechanically cooled. Elsewhere, relative humidity is limited only by the effect of the indoor sensible heat load.

Normal conditions are assumed to exist on a continuous basis until an abnormal or accident condition occurs, with the

abnormal or accident condition then lasting for the duration listed in the EQEDC. At the conclusion of the abnormal or accident condition duration it is assumed that conditions, except radiation, will return to normal.

Abnormal operating conditions are any reasonably expected or anticipated deviations from normal conditions (excluding accident conditions). Abnormal operating conditions include:

1. Transients that result from main steam line isolation (loss of condenser vacuum, turbine trip, and MSIV closure (including a stuck open relief valve).

2. Transients caused by a single failure of one division of redundant essential HVAC equipment.

3. Transients caused by the loss of nonessential drywell HVAC equipment as the result of a loss of offsite power at a high containment pressure condition.

4. Plant operation during test conditions.

The abnormal temperature profiles applied to the primary containment for conditions 1 and 3 envelope all normally expected transient conditions.

An accident condition is an unexpected event, occurring during the course of operation, that has been postulated for analytical purposes and has the capability of causing a release of radioactivity to the environs that could endanger public safety if not mitigated. A main steam line pipe rupture is an example of an accident condition.

2.2 RADIATION ENVIRONMENT

Integrated radiation environments are specified in terms of rads for gamma and beta radiation. The gamma values are based on energy deposition in tissue (rads) or exposure in air (roentgen). However, the corresponding absorbed dose which would occur in equipment materials (e.g., carbon) when exposed to the environment would differ only slightly in magnitude. For equipment qualification testing, the equivalence of 1 rad to 1 roentgen is an appropriate assumption. The beta environment is stated in terms of a surface air dose and does not account for any shielding

between the airborne or plateout activity and the material of interest. The total integrated dose equals the normal plus the accident conditions. Neutron environments are specified in terms of neutron fluence (neutrons/cm^2) for that portion of the spectrum ≥1 Mev.

For normal operating conditions, the radiological environments are specified as doses integrated over a 40-yr plant life for gamma and beta radiation. A plant capacity factor of 0.8 is used to develop the integrated doses for all equipment which operates in conjunction with normal reactor operation. Expected operation time over the 40-yr life of the plant is used to determine integrated doses in the vicinity of other auxiliary systems and equipment, such as fuel handling systems.

Radiation dose contributions due to abnormal conditions that are expected during the life of the plant are included in the 40-yr normal operating conditions.

Radiation dose contributions due to abnormal conditions are for the MSIV isolation event resulting from a transient caused by a loss of condenser vacuum, an MSIV closure, or a turbine trip.

For accident conditions, accident radiological doses are in addition to normal and abnormal operational conditions. The accident dose contribution is determined for the single most limiting accident. Dose profiles as a function of time (t) following the accident are specified. The actual accident dose that equipment is evaluated against is determined based on the required operation time of the device following an accident. In most cases, the post-LOCA (DBA) environmental conditions will be the basis for the radiological requirements. Anticipated transients without a scram are also considered. Accident integrated doses include combined dose contributions from airborne and contained sources and represent the maximum dose for the area specified.

2.3 CHEMICAL ENVIRONMENT

Engineered Safety Feature (ESF) systems are designed to perform their safety functions in the temperature, pressure, and humidity conditions described in the EQEDC.

Unit 2 does not utilize any chemical additives to the water recirculated by the ECCS during normal or accident conditions.

Following an accident, the containment and drywell atmospheres are maintained below 5 percent (by volume) hydrogen, as discussed in FSAR Section 6.2.5.

Water for the reactor (normal operation), suppression pool, fuel storage pool, RHR system, and ECCS is not chemically inhibited and is controlled by ion exchange systems within the following normal operating limits:

Parameter	Reactor Water Limits Shutdown Condition	Refueling and Fuel Storage Pool Water Quality	Suppression Pool Water Quality Maximum Limit
Conductivity	≤10 mho/cm @ 25°C	≤3 umho/cm @ 25°C	≤10 umho/cm @ 25°C
Chlorides (as Cl-)	≤0.5 ppm	≤0.5 ppm	≤0.5 ppm
pH	5.3 to 8.6 @ 25°C	5.3 to 7.5 @ 25°C	5.3 to 8.6 @ 25°C
Total suspended solids	---	≤1 ppm	≤5 ppm

Sampling stations are provided for periodic analysis of reactor water, refueling and fuel storage pool water, and suppression pool water to assure compliance with operation limits of the plant technical specifications.

2.4 SPRAY/SUBMERGENCE

The preferred design approach for Unit 2 was to locate safety-related components above postulated flood levels and away from sources of water spray, thereby eliminating the requirement for qualification under these conditions. However, due to physical constraints of component and building arrangements, this is not feasible in some areas of the plant.

In general, only equipment in the primary containment is subject to spray/submergence conditions. Equipment located inside the primary containment is designed and qualified to perform its intended function under the conditions to which they are exposed. Equipment located in the containment below el 219 ft (Zone PC215121) will be submerged for a duration of up to 2 sec during suppression pool swell following a LOCA. This equipment is qualified to withstand the submergence conditions to which it is exposed. For areas outside the primary containment, flooding analyses were performed as described in FSAR Appendix 3C. These analyses demonstrate that electrical equipment required for safe shutdown of the plant either is located above submergence levels or protective measures are provided to prevent submergence.

TABLE 2-1

HARSH ENVIRONMENT ZONES

Zone	Zone	Zone	Zone	Zone	Zone	Zone	Zone	Zone
ABN17501	ET215239	PC250619	PC261649	PC297697	SC196116	SC240143	SC306175	SC261356
ABN17503	ET215242	PC250620	PC261650	PC299698	SC196117	SC240145	SC306176	
ABN19612	MST24044	PC250621	PC261651	PC299699	SC196118	SC240146	SC306177	
ABN17504	MST24045	PC250622	PC279657	PC299700	SC196119	SC261147	SC306178	
ABN17505	MST26146	PC250623	PC279658	PC299701	SC196120	SC261149	SC306179	
ABN19612	MST26147	PC250624	PC279659	PC303705	SC196204	SC261150	SC306180	
ABN19614	MST28948	PC250625	PC280663	PC303706	SC215122	SC261151	SC306181	
ABN19615	MST28949	PC250626	PC280664	PC303707	SC215123	SC261152	SC306182	
ABN21521	PC175101	PC250627	PC280665	PC303711	SC215124	SC289155	SC306183	
ABN21523	PC199112	PC250628	PC287669	PC306712	SC215125	SC289156	SC306184	
ABN21524	PC215121	PC250629	PC287670	PC306713	SC215127	SC289158	SC306215	
ABN24031	PC240208	PC250630	PC287671	PC328185	RB240128	SC289159	SC328186	
ABN24032	PC240600	PC261207	PC287672	RB240218	SC215129	SC289160	SC328187	
ABN24033	PC240601	PC261636	PC287673	SC175102	SC215130	SC289161	SC338189	
ABS17508	PC240602	PC261637	PC287674	SC175103	SC215131	SC289162	SC328192	
ABS17509	PC240603	PC261638	PC287679	SC175104	SC215132	SC289163	SC328193	
ABS17510	PC240604	PC261639	PC289680	SC175105	SC215205	SC289164	SC328194	
ABS17511	PC240605	PC261640	PC289681	SC175106	SC215206	SC289165	SC328195	
ABS19619	PC240606	PC261641	PC289682	SC175107	SC240135	SC289166	SC328196	
ABS19620	PC240607	PC261642	PC289683	SC175108	SC240136	SC289167	SC328197	
ABS21528	PC240608	PC261643	PC289684	SC175109	SC240137	SC289168	SC328199	
ABS24034	PC240609	PC261644	PC289685	SC175110	SC240138	SC289169	SC328221	
ABS24035	PC240610	PC261645	PC289686	SC175111	SC240139	SC289170	SC328222	
ABS24036	PC240611	PC261646	PC297691	SC175113	SC240140	SC289172	SC353201	
ABS24053	PC240612	PC261647	PC297692	SC175114	SC240141	SC289173	SC353202	
ASB24054	PC240618	PC261648	PC297693	SC196115	SC240142	SC306174	SC261355	

TABLE 2-2

MILD ENVIRONMENT ZONES

Zone	Description
Control Building	
El 215'-0"	
CB215258	Cable Vault Area
CB215259	Cable Vault Area
CB215305	Cable Vault Area
CB215306	Cable Vault Area
CB215307	Cable Vault Area
El 237'-0"	
CB237261	Cable Vault Area
CB237265	Cable Vault Area
CB237266	Cable Vault Area
CB237267	Cable Vault Area
CB237272	Cable Vault Area
CB237273	Cable Vault Area
CB237274	Cable Vault Area
El 250'-0"	
SW250364	Service Water Tunnel
El 261'-0"	
CB261275	Standby Switchgear Room
CB261276	Standby Switchgear Room
CB261277	Standby Switchgear Room
CB261279	Standby Switchgear Room
CB261280	Standby Switchgear Room
CB261281	Standby Switchgear Room
CB261282	Standby Switchgear Room
CB261283	Standby Switchgear Room
CB261284	Standby Switchgear Room
CB261286	Standby Switchgear Room
CB261287	Standby Switchgear Room
CB261288	Standby Switchgear Room
CB261289	Standby Switchgear Room

TABLE 2-2 (Cont)

Zone	Description
CB261290	Standby Switchgear Room
CB261292	Standby Switchgear Room
CB261293	Standby Switchgear Room
CB261294	Standby Switchgear Room
CB261295	Standby Switchgear Room
El 274'-0"	
CB274390	Standby Switchgear Room
CB274391	Standby Switchgear Room
El 289'-0"	
CB289296	Relay Room
CB289297	Relay Room
CB289298	Relay Room
CB289301	Relay Room
CB289394	Relay Room
CB289395	Relay Room
CB289396	Relay Room
El 306'-0"	
CB306310	Control Bldg Passageway
CB306311	Main Control Room
CB306312	Main Control Room
CB306313	Main Control Room
CB306314	Main Control Room
CB306315	Main Control Room
CB306317	Main Control Room
CB306321	Main Control Room
Diesel Generator Building	
El 261'-0"	
DG261330	Diesel Generator Rooms
DG261331	Diesel Generator Rooms
DG261332	Diesel Generator Rooms
DG261333	Diesel Generator Rooms
DG261334	Diesel Generator Rooms
DG261335	Diesel Generator Rooms

TABLE 2-2 (Cont)

Zone	Description
El 272'-0"	
DG272337	Diesel Generator Rooms
DG272338	Diesel Generator Rooms
DG272339	Diesel Generator Rooms
DG272340	Diesel Generator Rooms
DG272341	Diesel Generator Rooms
DG272342	Diesel Generator Rooms
DG272343	Diesel Generator Rooms
El 277'-0"	
DG277344	Diesel Generator Rooms
DG277345	Diesel Generator Rooms
DG277346	Diesel Generator Rooms
Electrical Tunnels	
El 215'-0"	
ET215240	Electrical Tunnels
ET215241	Electrical Tunnels
ET215243	Electrical Tunnels
ET215244	Electrical Tunnels
Service Water Building	
El 224'-0"	
SW224365	Service Water Pump Room
SW224366	Service Water Pump Room
El 250'-0"	
SW250364	Service Water Pump Room
El 261'-0"	
SW261367	Service Water Pump Room
SW261368	Service Water Pump Room
El 261'-0"	
SW261369	Screenwell Area

TABLE 2-2 (Cont)

Zone	Description
El 289'-0"	
TB289760	Turbine Bldg
Intake Structures	
El 234'-0"	
ITK23490	Intake Structure
El 285'-0"	
ITK28591	Intake Structure

TABLE 2-3

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TABLE 2-4

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SECTION 3

FUNCTIONAL PERFORMANCE REQUIREMENTS

3.1 SYSTEM LIST

The systems required to mitigate an accident are listed in Table 3-1. This table also lists components/systems that are listed in Table 3.2-1 of the FSAR which have a quality group classification of A, B, or C, or designated either QA Category I or Seismic Category I.

3.2 SYSTEM/ACCIDENT MATRIX

The system/accident matrix shown in Table 3-2 identifies those systems that are required to respond to accidents which result in harsh environments.

As discussed in Sections 2.1 and 2.2 and the EQEDC, generally only two of the several design basis accidents discussed in FSAR Section 15 and FSAR Appendix 15A are used to define harsh environment for equipment qualification. These two accidents, loss of coolant accident inside the primary containment and high energy line break outside the containment, envelop all other plant conditions with respect to their effect on the equipment environment.

For some components, this worst case combination of accident and environmental conditions results in qualification problems. In these instances, an evaluation was performed to develop the environmental conditions for the accidents in which these components are required to operate. These conditions then become the basis for their qualification.

Not all systems listed in Table 3-1 include equipment located in harsh environments.

Some components listed in Table 3-1 are not required to operate following accident conditions and therefore do not require harsh environment qualification. Justification for this is given in the notes to Table 3-2. A cross reference of GE and SWEC systems is given in Table 3-3.

3.3 POST-ACCIDENT OPERABILITY TIME

Equipment must be qualified for the length of time it is required to perform its safety function and must remain in a safe mode after the function is performed. The length of time the equipment is required to function following the onset of an accident is its post-accident operability period

(PAOP). Equipment can have a PAOP that ranges from a short time period, but not less than 1 hr immediately following the onset of an accident, to 100 days for components requiring operation for an extended period after the onset of an accident.

The approach to determine operability times is similar to that used for accident conditions in that the most limiting case is used for environmental qualification. In most cases, post accident operability time is based on the accident requiring the longest functional capability. This is combined with the worst case accident environment, even though a shorter PAOP may be applicable.

TABLE 3-1

SYSTEMS LIST

Abbreviation	System
ISC	Reactor System and Nuclear Boiler
CIS	Containment Isolation (See Note 1 to Table 3.1-2)
RDS	Control Rod Drive
SLS	Standby Liquid Control
NMS/TIP	Neutron Monitoring/Traversing Incore Probe
RPS	Reactor Protection System
LDS	Leak Detection (See Note 2 to Table 3.1-2)
PRM/ARM	Process Radiation Monitoring/Area Radiation Monitoring
RHS	Residual Heat Removal
CSL	Low Pressure Core Spray
CSH	High Pressure Core Spray
ICS	Reactor Core Isolation Cooling
FHE	Fuel Service, Reactor Vessel, Invessel, Storage, and Refueling Equipment
SFC	Spent Fuel Pool Cooling
ADS/SVV	Automatic Depressurization/Main Steam Safety Relief
IAS	Instrument Air
SWP	Service Water
GTS	Standby Gas Treatment
EGS	Emergency Diesel Generators (including CSH DG)
EGF	Diesel Generator Fuel Oil (including CSH DG)

TABLE 3-1 (Cont)

Abbreviation	System
EGA	Diesel Generator Starting Air (including CSH DG)
CMS	Containment Monitoring
GSN	Nitrogen Inerting
HCS	Hydrogen Recombiner
HVK	Control Building Chilled Water
HVR	Reactor Building Ventilation
HVP	Diesel Generator Building Ventilation
HVY	Yard Structures Ventilation
HVC	Control Building Air Conditioning
ACP	Auxiliary AC Power System (Normal or Emergency)
DCP	DC Power Systems (Normal or Emergency)
RPC	Reactor Building Polar Crane
RRS	Redundant Reactivity Control
CNS	Condensate Makeup/Drawoff
DFM	Miscellaneous Floor Drains
DWS	Domestic Water System
TME	Turbine Gland Seal and Exhaust
ASS	Auxiliary Steam

TABLE 3-2

SYSTEM/ACCIDENT MATRIX

Accident	Abbreviation	FSAR Reference
Control Rod Drop Accident	CRDA	15.4.9
Fuel Handling Accident	FHA	15.7.4
Loss of Coolant Accident (inside primary containment)	LOCA	15.6.5
High Energy Line Break (ICS/WCS) (outside primary containment)	HELB	15.6.4
Main Steam Line Break (outside primary containment)	MSLB	15.6.4
Feedwater Line Break (outside primary containment)	FWLB	15.6.6
Anticipated Transients Without Scram	ATWS	15.8

TABLE 3-2 (Cont)

System	Accident						
	CRDA	FHA	LOCA	HELB	MSLB	FWLB	ATWS
CIS(1)	X		X	X	X	X	X
ISC	X	X	X	X	X	X	X
RDS	X		X	X	X	X	X
SLS							X
NMS/TIP	X						X
RPS	X		X	X	X	X	X
LDS(2)				X	X	X	
PRM/ARM	X	X	X	X	X	X	X
RHS	X	X	X	X	X	X	X
CSL	X	X	X	X	X	X	X
CSH	X	X	X	X	X	X	X
ICS	X						
FHE(3)							
SFC	X	X	X	X	X	X	X
IAS	X		X	X	X	X	X
ADS/SVV	X		X	X	X	X	X
SWP	X	X	X	X	X	X	X
GTS	X	X	X				X
EGS(7)	X	X	X	X	X	X	X
EGF(7)	X	X	X	X	X	X	X

TABLE 3-2 (Cont)

System	Accident						
	CRDA	FHA	LOCA	HELB	MSLB	FWLB	ATWS
EGA(7)	X	X	X	X	X	X	X
CMS	X		X	X	X	X	X
GSN(8)	X		X	X	X	X	X
HCS			X				
HVK(7)	X	X	X	X	X	X	X
HVR	X	X	X		X	X	X
HVP(7)	X	X	X	X	X	X	X
HVY(7)	X	X	X	X	X	X	X
HVC(7)	X	X	X	X	X	X	X
ACP	X	X	X	X	X	X	X
DCP	X	X	X	X	X	X	X
RPC(4)							
RRS(7)							X
CNS(5)			X				
DWS(6)							
TME(6)							
ASS(6)							

TABLE 3-2 (Cont)

Notes

(1) CIS, primary containment isolation, includes the following systems whose only post-accident function is primary containment isolation (unless otherwise noted):

- Reactor coolant system (RCS) (also serves an ATWS function)
- Reactor water cleanup system (WCS) (also serves an ATWS function and is part of LDS)
- Service air system (SAS)
- Breathing air system (AAS)
- Reactor building closed loop cooling water system (CCP) (interface isolation with service water)
- Main steam system (MSS) (also part of ADS/SVV and LDS)
- Feedwater system (FWS) (also serves an ATWS function)
- Containment purge system (CPS)
- Reactor building floor and equipment drain systems (DFR, DER) (also part of LDS)
- Fire protection system (FPW)
- Leakage monitoring system (LMS)

(2) LDS, the leak detection system, includes temperature, flow, and/or level instrumentation, in the following systems:

- Main steam system (MSS)
- Reactor system (ISC)
- Reactor core isolation cooling system (ICS)
- Reactor building floor and equipment drain systems (DFR, DER)
- Residual heat removal system (RHS)

TABLE 3-2 (Cont)

- Reactor water cleanup system (WCS)

(3) FHE, which includes fuel service, reactor vessel, invessel, storage, and refueling equipment, performs no post accident function. Selected components are seismically qualified to ensure proper functioning during refueling operations. Refer to FSAR Section 9.1.

(4) RPC, the reactor building polar crane, performs no post accident function. The crane is seismically qualified to prevent failure that could jeopardize safe operation of the reactor and to ensure proper functioning during refueling operations. Refer to FSAR Section 9.1.

(5) One CNS boundary valve is used to prevent bypass leakage in the event of a LOCA inside the primary containment.

(6) DWS, ASS, and TME require QA Category I components based on special system considerations. No environmental qualification is required.

(7) No equipment for these systems is included in the Master List for 10CFR50.49(b) on the basis that it is located in a mild environment.

(8) GSN is required to maintain piping pressure integrity for makeup N_2 supply to IAS. No QA Category I electrical equipment is required.

TABLE 3-3

SWEC/GE SYSTEM CROSS REFERENCE

System	SWEC Code	GE Code
Nuclear Boiler	ISC	B22
Mainsteam	MSS	B22
Feedwater	FWS	B22
Automatic Depressurization	ADS	B22
Recirculation	RCS	B35
Control Rod Drive	RDS	C12
Redundant Reactivity Control	RRS	C22
Standby Liquid Control	SLS	C41
Neutron Monitoring	NMS	C51
Process Radiation Monitoring	PRM	D13
Residual Heat Removal	RHS	E12
Low-Pressure Core Spray	CSL	E21
High-Pressure Core Spray	CSH	E22
Leak Detection	LDS	E31
Reactor Core Isolation Cooling	ICS	E51
Reactor Water Cleanup	WCS	G33

SECTION 4

QUALIFICATION METHODOLOGY

4.1 HARSH ENVIRONMENT

4.1.1 BOP Equipment - Electrical

The methodology established for the equipment qualification program is in accordance with the guidelines provided in NUREG-0588 for Category II plants and consistent with applicable Regulatory Guides and consensus national standards (ANSI and IEEE), and in compliance with the requirements of 10CFR50.49. The methodology consists of developing the Equipment Qualification Environmental Design Criteria (EQEDC)[1], which establishes the temperature, pressure, humidity, and radiation dose levels, for normal, abnormal, and accident conditions. Post-accident operability time is developed to assure that the equipment will be qualified to maintain a safety function during a post-accident event.

These requirements are included in the procurement specification for the safety related electrical equipment. The specification mandates that the qualification will be accomplished in accordance with IEEE 323-1974 and in accordance with the quality assurance program referenced in 10CFR50 Appendix B.

Based on these specification requirements, the equipment manufacturer develops an equipment qualification program.

Safety-related equipment is evaluated by comparing the environmental conditions by which equipment operability has been demonstrated with required conditions. This evaluation includes review for both 40-yr normal and abnormal environments and accident environments resulting from a spectrum of LOCAs and HELBs. The equipment justification is considered acceptable when it is demonstrated that equipment can perform its required safety function under postulated environmental conditions.

All qualification testing and analysis of safety-related equipment are being evaluated for compliance with Category II NUREG-0588 guidelines. Equipment testing is reviewed to determine the extent to which it simulates plant conditions and provides sufficient margin. Factors considered during the review of testing include test

procedures, test setup, test sequence, margin, and test anomalies.

Supplemental analyses (i.e., beta shielding thermal degradation) are performed, as required, to support qualification. All analyses based on partial test data are completed using approved methodologies with adequate justification. Equipment specific analyses are contained in the EQ file along with appropriate justification.

A System Component Evaluation Work (SCEW) sheet is completed for each equipment/component listed on the master list (Appendix A), with the results of the qualification document review, in summarized form. A SCEW sheet with a description of its entries is provided in Section 5.2 of this document. SCEW sheets demonstrate that each required parameter is enveloped by the qualified values. Additionally, SCEW sheets provide equipment description, safety function, qualified life, and references of all applicable qualification documents and explanatory notes.

Aging

Aging effects on all safety-related electrical equipment are considered in the EQ program to conform to the requirements of Section 4 of NUREG-0588.

Arrhenius aging methodology is used for accelerated thermal aging and is the preferred method for evaluating equipment aging. When other methods are used, appropriate justification is provided.

In the case where accelerated aging was used, the procedure employed considered the expected application and design life of the device being tested.

Synergistic effects, where known, are considered in the accelerated aging program. Specifically, where a supplier has identified or is aware of synergistic effects for a particular component, it has been addressed. Appropriate documentation is included in the EQ file.

Where required, a maintenance or replacement schedule consistent with qualified life is provided as part of the support documentation and is referenced on the SCEW sheets.

When type testing was selected as the qualification method, the type test was run on the device(s) in a specified sequence that was set down as part of the written test procedure. All sequential testing was performed on the same

unit(s), including aging. The sequence given in IEEE 323-1974, Paragraph 6.3.2, is used, where an alternate sequence can be justified technically. This justification is documented in the qualification reports.

Margin

Qualification type test results were reviewed to verify that adequate margin exists between the most severe specified service conditions for the equipment and the conditions used in type testing. Margins are in addition to any conservatism applied during the derivation of local environmental conditions of the equipment. Margin accounts for production variations of equipment and inaccuracies in test instrumentation. Increased levels of testing, number of test cycles, and test duration are among the methods used for ensuring adequate margin.

Some equipment is required by the design to perform its safety function only within the first 10 hr of an accident. For this equipment in general, a time margin of at least 1 hr in excess of the time assumed in the accident analysis was used.

For all other equipment, the 10-percent time margin identified in IEEE 323-1974 was used unless a reduced amount could be justified.

Dose Rate and Synergistic Effects

Qualification for radiation was based on the calculated total integrated dose. Safety-related electrical equipment qualified for use in a nuclear radiation environment was exposed to radiation which simulated the conservatively calculated integrated dose (normal and accident) that the equipment is expected to withstand prior to completion of its intended safety function. In general, a gamma radiation source, typically CO-60, is used to simulate expected radiation exposure. Where beta and gamma radiation exposure is expected, beta radiation is taken into account either during simulated exposure (directly or as a gamma equivalent) or during evaluation of the results. Reduction in the total beta dose was allowed only after considering appropriate shielding factors. If the beta radiation dose contribution to the equipment or component was calculated to be less than 10 percent of the total gamma radiation dose to which the equipment or component had been qualified, then the equipment or component was considered qualified for the beta and gamma radiation environment.

The dose rate, energy spectrum, or particle type was addressed to arrive at a gamma equivalent total dose to which the equipment must be exposed. Actual testing using dose rate, energy spectrum, or particle type as qualification parameters was not considered.

Synergistic effects involving dose rate are not addressed. However; where synergistic effects of radiation and temperature were identified prior to the initiation of qualification, they are included in the program.

Analysis

The use of analysis for qualification is in conformance with 10CFR50.49(f).

4.1.2 NSSS Equipment - Electrical

Safety-related electric NSSS equipment located in a harsh environment includes all three categories of 10CFR50.49(b). A Master List of this equipment is provided in Appendix A.

Category 1, 10CFR50.49(b) equipment is that equipment classified by the NSSS vendor as safety-related in the Master Parts List (MPL). Category 2, 10CFR50.49(b) equipment has been identified through review of the electrical connections for all equipment classified as nonsafety-related in the MPL. Those items connected to ESF or RPS power without being electrically separated in accordance with Regulatory Guide 1.75 are included in the qualification program[3]. Category 3, 10CFR50.49(b) equipment has been identified and is included in the qualification program.

The approach taken by General Electric to environmentally qualify safety-related equipment within the NSSS Scope of Supply for Unit 2 to a level consistent with NUREG-0588 is described in the GE Licensing Topical Report NEDE-24326-1-P[4]. This report has been approved by the NRC. The methodology described in this report is consistent with applicable Regulations (10CFR50 Appendix A), applicable Regulatory Guides, and with applicable consensus national standards (ANSI and IEEE). The work performed under this guidance is controlled in a manner consistent with the commitments contained in the NRC-approved GE Licensing Topical Report on Quality Assurance.

The approach to qualification described in NEDE-24326-1-P[4] is predicated on type testing being the preferred approach. Depending upon either the unique characteristics of the

specific devices or on the availability of other sources of qualification data, other approaches such as partial type test with justification by analysis, operating experience, analysis or combination of the above mentioned approaches may be used. For any of these approaches the eventual approach used is justified in the accompanying qualification report. This justification is based on the demonstrated ability of the product to meet its intended safety function.

Where type testing is performed, the approach usually taken is as follows:

1. Assure the device is functional under normal conditions as well as under extremes of such conditions.

2. Device is aged to an end-of-qualified life condition.

3. Device is subjected to dynamic simulation.

4. Device is subjected to design basis event conditions and post design basis event conditions.

5. Device is inspected for failures which may not have been apparent during the operational testing which may have occurred during exposure to an environmental extreme.

The specific sequence of tests undertaken during environmental qualification may vary depending upon the function of the device and the nature of the event for which qualification is being demonstrated. The associated qualification report contains a justification of the actual sequence used. When a product is tested, where practical, the interface associated with the product is included in the test. The specific sequences of environments applied during the testing are determined, using engineering judgment, to best select the sequence to which the product would be subjected during actual installation. Furthermore, where synergisms between environments are known, these effects are taken into consideration during the planning and conducting of the test. All tests that are conducted include adequate margins as described in NEDE-24361-1-P[4].

Following the completion of the tests all of the associated documentation that led to the test and was generated during the test is formally assembled into a qualification report. That report is available for NRC audit.

For devices not qualified by test (e.g., devices classified as safety-related solely because they perform a pressure boundary function; devices that perform their safety function prior to the onset of harsh environments in which they do not contribute to the mitigation of the event after performance of the intended safety function, etc) qualification reports are also prepared demonstrating the adequacy of their qualification. As with devices qualified by test, these qualification reports are in an auditable form. The last step of qualification is to ensure that the device tested is similar to the device installed in the field. Therefore, before full qualification can be assured, there is a verification of the similarity between the tested device and the installed device.

4.1.3 BOP/NSSS Equipment - Mechanical

The Mechanical Equipment Qualification (MEQ) Program provides a documented analysis of the nonmetallic materials, used in safety-related mechanical equipment, to demonstrate that the environmental effects due to plant operation and postulated accidents would not degrade these materials in such a way as to prevent this equipment from performing its required safety function.

The MEQ Program details the environmental design conformance review of safety-related mechanical equipment located in a harsh environment. The conformance review includes nonmetallic subcomponents of mechanical equipment. Safety-related mechanical equipment included in the MEQ program is identified in Appendix D. Environmental conditions listed in the EQEDC are used as the basis for the MEQ review.

Generally, mechanical equipment has not been shown to be as sensitive to radiation exposure as electrical components. Metallic portions of the equipment are particularly resistant to radiation. Nonmetallic parts of mechanical equipment, while more sensitive to radiation and temperature, are used in the equipment so that the degradation of mechanical properties will not substantially affect the required safety function of the component.

<u>Methodology</u>

The review consists of the following five-step process.

1. Identification of safety-related mechanical equipment

2. Identification of nonmetallic components

3. Identification of environmental design conditions

4. Identification of nonmetallic material capabilities

5. Evaluation of environmental effects

The MEQ Program consists of analyses of safety-related equipment located in systems required for the following functions:

1. Emergency reactor shutdown

2. Emergency core cooling (short-term)

3. Reactor core cooling (long-term post accident)

4. Primary containment isolation

5. Containment integrity

6. Prevention of release of radioactive material

To accomplish the above functions, complete systems and portions of systems are included in the MEQ Program.

Category I mechanical equipment within those systems that are located in a harsh environment, and required for performance of the above functions, are included in the MEQ Program. The review is performed by using the specifications, SWEC drawings, vendor drawings, and manuals.

Of the environmental conditions (temperature, pressure, humidity, and radiation) only radiation and temperature were considered in the review. Pressure and humidity were not considered relevant since the design of nonmetallic portions of mechanical equipment for these parameters is governed by system process conditions which have been identified in the specification and addressed by the equipment manufacturer.

Each material identified was examined to determine the effect of the environmental conditions on the material

properties. For initial screening, it was conservatively chosen to use the threshold radiation level and maximum service temperature. Materials handbooks, textbooks, and industry and government reports were researched to obtain material data. In some cases vendor data were utilized to supplement the above sources.

A conservative initial screening of the nonmetallic components was made by the comparison of the material capabilities (threshold radiation level and maximum service temperature) with the maximum postulated environmental conditions. Those items which were not shown to be acceptable based on the comparison were evaluated in further detail considering:

1. Degree of material degradation.

2. Material properties affected.

3. Equipment/component function.

4. Degree of functional degradation.

Acceptance Criteria

In order to be considered acceptable, nonmetallic portions of mechanical equipment must either be shown to be acceptable for the plant environment by either of the following:

1. Exhibiting threshold radiation values and maximum service temperatures above the maximum postulated environmental conditions.

2. Demonstrating by engineering analysis of material capabilities and function that the safety function of the component is not compromised.

4.2 MILD ENVIRONMENT

Mild environment plant areas are listed in Table 2-2.

The Unit 2 classification of mild environment zones complies with 10CFR50.49(c). Safety-related equipment in these zones is located outside the containment and is not subject to accident environments caused by a LOCA or pipe break. In these zones, there is no significant change in environmental conditions, except radiation.

For a zone to be classified as mild, the total integrated dose for 40 yr plus 100 days post-accident service is no more than 10^4 rads and generally less than 10^3 rads. This value is conservative since organic compounds with the least radiation resistance have damage thresholds greater than 10^4 rads. Most electronic components have a threshold damage level above 10^4 rads. Semiconductors, in particular, metal oxide semiconductor (MOS) devices, have a threshold damage level in the range of 10^3 to 10^4 rads. N-channel metal oxide semiconductor (NMOS) devices are most vulnerable to radiation damage; the failure dose can be as low as 10^3 rads (Si)[11]. The damage is usually caused by total dose gamma radiation. No damage was identified due to beta radiation. Semiconductor devices are resistant to beta radiation since they are sealed in molded plastic, ceramic-to-metal, or glass-to-metal packages. Neutron radiation may cause damage in semiconductor devices; however, there is no neutron radiation in mild environment zones. Dose rate thresholds are higher than total dose damage threshold levels. The lowest threshold for dose rate upset is 10^5 rads (Si)/s for silicone-controlled rectifiers, and dose rate damage occurs above 10^6 rads (Si)/s[11]. Since the maximum dose rate for these zones is much lower than the above threshold levels, no transient or permanent failures will occur in any mild environment zones due to dose rate effects.

Radiation effects on the above conditions in a mild environment are considered negligible because the calculated radiation doses for mild environment zones are less than 10^4 rads with the highest dose calculated to be 912 rads for the HVAC rooms.

The radiation required to produce one rad in silicon (Si) is 1.15 R in the energy range of 0.5 to 1.0 Mev[12]. Therefore, semiconductor devices, including MOS devices, are considered qualified for the Unit 2 specific radiation exposure.

Equipment located in the zones listed in Table 2-2 are not exposed to environmental conditions that may cause common mode failures due to environmental conditions during DBE. Immediate access following a DBE is not required other than normal and periodic maintenance. Therefore, these plant zones may be considered mild environment areas.

4.2.1 BOP Equipment Mild Environment Qualification Program

Safety-related equipment located in a mild environment meeting the following requirements is considered adequately qualified.

1. A Certificate of Compliance (C of C) stating that the functional requirements of the equipment subjected to the specified Unit 2 environmental conditions have been met.

2. The C of C shall identify the supplied equipment by equipment mark number.

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3. The equipment has been manufactured in accordance with a quality assurance program that meets the requirements of 10CFR50, Appendix B, and states compliance with 10CFR21.

4. The requirements for any scheduled surveillance, maintenance calibration, periodic tests, and parts replacements necessary to maintain qualification are specified.

4.2.2 NSSS Mild Environment Qualification Program

Safety-related NSSS vendor-supplied equipment that is located in a mild environment is considered qualified if:

1. The equipment manufacturer's design environmental parameters envelop the Unit 2 specific environment.

2. The equipment manufacturer's design functional characteristics envelop the Unit 2 application specific functional performance requirements.

3. The NSSS vendor provides a Product Quality Certification (PQC) in accordance with NEDO 11209[5].

The PQC establishes a tie between the supplied item and the respective equipment drawing which in turn provides further reference to the applicable environmental and functional performance specifications.

TABLE 4-1

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SECTION 5

QUALIFICATION DOCUMENTATION

5.1 MASTER LISTS (ML)

The equipment and components that are within the scope of 10CFR50.49(b) are listed in the ML in Appendix A and are included in the qualification program.

This list includes 10CFR50.49(b) equipment categories 1, 2, and 3.

All safety-related equipment added as a result of the TMI action items (see FSAR Section 1.10) have been included in the Unit 2 qualification program and qualified as required.

The ML includes the following:

1. Equipment/components associated with the systems required to mitigate an accident listed in Tables 3-1 and 3-2 and located in harsh environment. (Category 1, 10CFR50.49(b).

2. Post-accident monitoring equipment located in harsh environment, and specified as Category 1 and 2, Revision 2 of Regulatory Guide 1.97.

   Nonsafety-related equipment/components are not connected to safety-related power buses without being electrically separated in accordance with Regulatory Guide 1.75 and IEEE 384 (see FSAR Sections 8.3.1.4.1 and 8.3.1.1.2), except for the stub bus loads (see FSAR Tables 8.3-1 and 8.3-4). The stub busses are tripped on LOCA signal. Therefore, nonsafety-related equipment is not included in the list.

An important feature of the ML is its capability to identify all qualification documentation associated with any of the listed safety-related electrical equipment or components through reference to the associated SCEW sheets for that particular equipment or component. The identity of any qualification document associated with any of the listed items can be accessed through either the individual equipment identification number, (e.g., 2CSL*FV114) or through a generic equipment manufacturer and model number (e.g., Rosemount 1153B pressure transmitter).

Examples of documentation accessible through the ML reference to the SCEW sheets are purchase specifications, vendor records (e.g., test plans and test reports), and SWEC-generated documentation (e.g., aging analyses of mechanical equipment and equipment operability periods).

For each device, the ML provides a summary of the key elements of the Environmental Qualification Program. Tables 5-1a and 5-1b contain the heading for the ML, with a description of each entry. For BOP equipment, the first four characters of the device indicate the unit number and the major system in which the device is used. For NSSS equipment, the major system in which the device is used is indicated by the first three characters of the mark number. The subsequent characters are used to further segregate the devices by specific type and number.

5.2 SYSTEM COMPONENT EVALUATION WORK (SCEW) SHEET

The SCEW sheet presents a description of the individual equipment and its location. A comparison is made, in summary, of the actual environmental parameters of the zone specified, with the environmental parameters encompassed in the qualification program. It also contains references to all of the supportive environmental qualification documents which demonstrate that the equipment is qualified to perform its safety function in the postulated environmental conditions.

Reference to the qualification documents that contain detailed supporting information, including test data, can be found listed in the individual equipment or component SCEW sheet.

In general, there is a SCEW sheet for every line item on the ML. Some SCEW sheets may consist of more than one page when the individual equipment has components which are located in different zones or are otherwise qualified separately.

Referenced documents are test reports and other such items that are retained in Supplier's Document Data Form (SDDF) files. Other documents which may be referenced are equipment specifications, Equipment Qualification Environmental Design Criteria (EQEDC), and calculations of composite environmental zone profiles, qualified life and supplemental analyses for equivalent gamma radiation and the post-accident operability period.

SCEW sheets are compiled in Appendix B.

Associated with the SCEW sheets are graphs of time dependent environmental parameters, such as temperature and pressure for both specified accident conditions and qualification test conditions. These profiles of accident and test conditions are compiled in Appendix C and may be used for comparison of the applicable accident conditions and zones to the environment simulated in the qualification test.

TABLE 5-1

EQUIPMENT QUALIFICATION

MASTER LIST
ENVIRONMENTAL QUALIFICATION

EQUIP ID(1)	EQUIP DESCRIPTION(2) VENDOR NAME(3)	SPEC(4)	EQ STAT(5)	ZONE(6) ZIND(7)	OP/CD(8) OP TIME(8)	QUAL REF(10)	REMARKS(11)

---

(1) Equipment I.D. indicates identifying number of SWEC equipment (the first four characters of which correspond to the unit number and major system in which the equipment is used). Example: 2CSL*FV114.

(2) Equipment Description - brief description of equipment.

(3) Vendor Name - Indicates prime supplier per purchase order.

(4) Spec - Indicates procurement specification number.

(5) EQ Stat - status of vendor-supplied documentation with respect to equipment qualification. The following codes are used:

A - Approved
B - Vendor qualification reports submitted but not approved
C - Only qual test plan has been submitted
D - Documentation has not been submitted by vendor

(6) Zone - Indicates plant specific area where equipment/component is located.

(7) Zind - Indicates type of environment, i.e., harsh, mild.

(8) OP/CD - Indicates the operability code category associated with the equipment/component with regard to Appendix E, NUREG 0588, Item 3.

(9) OP Time - Indicates period of time following the onset of an accident during which the equipment/component must remain capable of performing its safety function (operability time).

(10) Qual REf - Indicates the qualification reference number of the SCEW (System Component Evaluation Work) Sheet.

(11) Remarks - Indicates where special notes or further data may be entered concerning the equipment/component and its qualification.

TABLE 5-2

SYSTEM COMPONENT EVALUATION WORK (SCEW)

SHEET PARAMETERS

Item	Description
(1)	Qualification reference number (QUAL REF NUMBER) that identifies the SCEW sheet is a 7-character alphanumeric number used for document identification and computer storage and retrieval. It is made up of the five digits of the specification number and a 2-character alphabetic equipment number code.
(2)	SCEW sheet revision level.
(3)	Equipment number as it appears on the Master List (ML). Each ML line item will have at least one SCEW Sheet.
(4)	Specification number of the specification that pertains to the particular equipment.
(5)	Name of the system that is represented by the 3-character system code in the equipment number.
(6)	Short description of the equipment.
(7)	Name of the manufacturer of the equipment, which will not necessarily be the same as the vendor.
(8)	Manufacturer's model number.
(9)	Brief description of the safety function that the equipment is required to perform.
(10)	Indicates the operability code category associated with the equipment/component with regard to Appendix B, NUREG-0588. In cases where qualified operational time is less than 100 days, Code A is used for the specified duration it is required to operate, and Code C for the remaining duration of the accident, based on justification for Code E and the results of the FMEA study.
(11)	Specified and demonstrated accuracy of the item (e.g., instruments).

TABLE 5-2 (Cont)

(12) Environmental zone in which the equipment is located.

(13,14, 15) NA (Not Applicable)

(16) ACCEPTABLE TO for all qualified equipment; QUALIFICATION IN PROGRESS on the line below for all other cases.

(17) If maintenance/surveillance is not required to maintain environmental qualification, NA; If maintenance/surveillance is required, the document reference number has been entered. Any special maintenance/surveillance requirements will be referenced or noted on the SCEW sheets.

(18) The number of years of qualified life.

(19) The reference number of the document or calculation, which supports the qualified life entry.

(20) Entries in this column are the maximum values for each parameter. These entries represent the actual conditions to which the equipment will be exposed in its location.

a. Operational Time: specified operability time from equipment operability time data sheet (where applicable; if not, 100 days). Reference is made to applicable operability time data sheet.

b. Temperature: EQEDC values.

c. Pressure: EQEDC values.

d. RH(percent): EQEDC values for normal and accident; NA for abnormal.

e. Radiation: EQEDC values.

1) Acc. Gamma: 100 days value for both inside and outside primary containment.

TABLE 5-2 (Cont)

2) Acc. Beta: 180 days value for inside primary containment and 100 days value for outside primary containment.

f. Spray/Submergence: Submergence is applicable to equipment located in the primary containment wetwell. Spray effects are considered for all 1E equipment/components subject to spray conditions.

(21) Entries in this column are the maximum values for each parameter. These entries represent the actual test conditions to which the equipment was qualified.

a. Operational Time

1) If the equipment is qualified for 100 days, 100 days is entered, even if the specified operational time is less than 100 days.

2) If the equipment is qualified for less than 100 days but meets or exceeds the specified operational time, a FMEA study has been initiated for 100 days.

b. Temperature: In cases where vendor-tested temperature/pressure profile is for 30 days, a calculation was prepared for extending from 30 days to 100 days and referenced accordingly. Vendor concurrence on the calculation has been obtained.

c. Radiation: The vendor-tested value (one value) includes both normal and accident dose. Any calculation prepared to compute equivalent gamma are referenced.

d. Spray/Submergence: "Yes" has been entered for the equipment tested for spray/submergence (or) LOCA by the vendor. NA has been entered in all other cases.

(22,23) Documents which support the conditions given in

TABLE 5-2 (Cont)

Entries 20 and 21 are listed in Entry 23 with specific reference file numbers; the document reference number appears in the specified or qualified columns of Entry 22.

(24) The qualification method used was entered using the following abbreviations, as applicable (see 10CFR50.49 for definitions); Test-Ident; Test-Sim; An + Data; Exp + An

(25) Margin demonstration indicated by "Yes" or "No."

(26,27) Necessary remarks to explain or justify entries. Actual remarks are placed in notes in Entry 27, and the note reference numbers placed in Entry 26.

TABLE 5-1A

EQUIPMENT QUALIFICATION

MASTER LIST
ENVIRONMENTAL QUALIFICATION (BOP)

EQUIPMENT ID(1)	DESCRIPTION(2)	VENDOR NAME(3)	SPEC(4)	EQ STAT(5)	ZONE(6)	ZNIND(7)	QUAL REF(8)	REMARKS(9)

---

(1) EQUIPMENT I.D. - indicates identifying number of the equipment. The first four characters correspond to the unit number and major system in which the equipment is used. Example: 2CSL*FV114.

(2) DESCRIPTION - brief description of equipment.

(3) VENDOR NAME - indicates prime supplier per purchase order.

(4) SPEC - indicates procurement specification number.

(5) EQ STAT - status of vendor-supplied documentation with respect to equipment qualification. The following codes are used:

A - Approved.
B - Vendor qualification reports submitted but not approved.
C - Only qual test plan has been submitted.
D - Documentation has not been submitted by vendor.

(6) ZONE - indicates plant specific area where equipment/component is located.

(7) ZNIND - indicates type of environment, i.e., harsh, mild.

(8) QUAL REF - indicates qualification reference number of SCEW (System Component Evaluation Work) sheet.

(9) REMARKS - indicates where special notes or further data may be entered concerning equipment/component and its qualification.

TABLE 5-1B

12/84
REVISION: 01
ISSUE DATE: 12/21/84

NMP2-ENVIRONMENTAL QUALIFICATION DATA MASTER LIST (NSSS)

MARK NO.(1) SWEC ID(2)	EQUIPMENT DESCRIPTION(3)	REMARKS(8)	ENV. ZONE(4)	ENVTYP(5)	EQUALST(6)	QUAL REF(7)

(1) MARK NO. - indicates GE's identifying number for the NSS supplied equipment. The first three characters of which correspond to GE's major system in which the equipment is used. Example: B22-N075A

(2) SWEC I.D. - indicates SWEC's identifying number for the NSSS supplied equipment. The first four characters correspond to the unit number and major system in which the equipment is used. Example: 2CNM*PT46A. Where a SWEC identifying number does not exist, a four-character system code may be assigned for sorting purposes.

(3) EQUIPMENT DESCRIPTION - brief description of equipment.

(4) ENV. ZONE - indicates plant specific areas where equipment/component is located.

(5) ENVTYP - indicates type of environment, i.e., harsh, mild.

(6) EQUALST - status of documentation with respect to equipment qualification. The following codes are used:

A - Approved.
B - Qualification reports completed but not approved.
C - Only qualification test plan has been completed.
D - No documentation has been completed.

(7) QUAL REF - indicates the qualification reference number of the SCEW (System Component Evaluation Work) sheet.

(8) REMARKS - indicates where special notes or further data may be entered concerning the equipment/component and its qualification.

TABLE 5-2

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FIGURE 5-1

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SECTION 6

MAINTENANCE/SURVEILLANCE PROGRAM

A preventive maintenance and surveillance program is being developed by NMPC to ensure the continued environmental qualification of equipment during plant operation.

The objectives of this preventive maintenance and surveillance program are and to ensure that the qualified equipment will perform its intended function in the environment in which it is expected to operate and to maintain retrievable records.

The list of environmentally qualified equipment identifies equipment to be included in the preventive maintenance and surveillance program. The list will be kept current to include mechanical equipment and ensure that equipment added to the plant because of design modifications is incorporated into the qualification program and the preventive maintenance and surveillance program.

For each piece of equipment, a preventive maintenance and surveillance program is being developed based on information such as requirements resulting from the equipment qualification report, and Unit 2 plant specific thermal and radiation qualified life calculations, manufacturer's recommendations, previous experience with similar equipment, etc. The qualification specific requirements are identified for each piece of equipment.

The initially developed preventive maintenance and surveillance programs will be modified during plant life if additional information, such as corrective maintenance frequency, surveillance testing, and industry experience (e.g., NRC information notices, circulars or bulletins, manufacturers' alert, LER's, reliability data bases, etc.), identifies any unanticipated degradation trends. In addition, the preventive maintenance and surveillance program identifies the lubricants suitable for each application and environment. These preventive maintenance and surveillance activities are performed by personnel using detailed procedures, as necessary.

The plant maintenance program will incorporate the scheduling and documentation of maintenance requirements and activities. Schedules will identify when equipment maintenance, replacement, testing, or calibration is required. Appropriate plant departments will complete the

work. On completion of scheduled activities, a notification will be made indicating work completion, which will document completion and facilitate rescheduling. This scheduling program will be used to alert appropriate plant departments of preventive maintenance, surveillance, and replacement requirements for environmentally qualified equipment.

Quality assurance and control programs will require inspections, verifications, and audits of activities and procedures important to safety. These programs will be performed on environmentally qualified equipment to ensure that schedules, maintenance, procedures, replacements, and documentation are completed in a correct and timely manner.

The preventive maintenance and surveillance program will be consistent with NRC requirements.

SECTION 7

REFERENCES

1. Equipment Qualification Environmental Design Criteria, (EQEDC), Stone & Webster Engineering Corporation, Document No. EQEDC-1.

2. Title 10, Code of Federal Regulations, Paragraph 50.49, Environmental Qualification of Electric Equipment Important to Safety for Nuclear Power Plants. Federal Register, Vol. 48, No. 15. January 21, 1983.

3. Regulatory Guide 1.75, Physical Independence of Electric Systems, Revision 2, September 1978.

4. Shirley, N.C. et al. General Electric Qualification Program, Licensing Topical Report NEDE-24326-1-P, January 1983.

5. General Electric Nuclear Energy Business Group, BWR Quality Assurance Program, NEDO-11209-04A, March 1978.

6. NUREG-0588, Interim Staff Position on Environmental Qualification of Safety-Related Electrical Equipment.

7. IEEE Standard 323-1974, IEEE Standard for Qualifying Class 1E Equipment for Nuclear Power Generating Stations.

8. U.S. Nuclear Regulatory Commission Standard Review Plan, NUREG-0800.

9. 10CFR50, Appendix B.

10. 10CFR21.

11. Rose, M.; Herrity, J.; Ruolie, N.; and Rasmussen, K. Design Guidelines for Transient Radiation Effects on Tactical Army Systems. IRT4331-06. June 12, 1981.

12. American Institute of Electrical Engineers (AIEE). Calculation of Absorbed Dose. December 1960.

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2AAS*HCV134	BRTHG AIR CNTMT ISOL V	VELAN	P304H	A	SC289155	H	P304HAA
REMARKS:REG. GUIDE 1.97							
2AAS*HCV135	BRTHG AIR CNTMT ISOL V	VELAN	P304H	A	SC240140	H	P304HAB
REMARKS:REG. GUIDE 1.97							
2AAS*HCV136	BRTHG AIR CNTMT ISOL V	VELAN	P304H	A	PC289681	H	P304HAC
REMARKS:REG. GUIDE 1.97							
2AAS*HCV137	BRTHG AIR CNTMT ISOL V	VELAN	P304H	A	PC240603	H	P304HAD
REMARKS:REG. GUIDE 1.97							

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2CCP*AOV37A	AIR OPERATED PLUG VALVE	ATTWOOD&MORRILL	P304K	A	ABN17504	H	P304KAA
REMARKS:							
2CCP*AOV37B	AIR OPERATED PLUG VALVE	ATTWOOD&MORRILL	P304K	A	ABS17509	H	P304KAB
REMARKS:							
2CCP*AOV38A	AIR OPERATED PLUG VALVE	ATTWOOD&MORRILL	P304K	A	ABN17504	H	P304KAC
REMARKS:							
2CCP*AOV38B	AIR OPERATED PLUG VALVE	ATTWOOD&MORRILL	P304K	A	ABS17509	H	P304KAD
REMARKS:							
2CCP*MOV122	DRS-CONT ISO INBD	VELAN	P304R	A	PC240612	H	P304RAQ
REMARKS:	REG. GUIDE 1.97						
2CCP*MOV124	DRS-CONT ISO OUTBD	VELAN	P304R	A	SC240135	H	P304RAR
REMARKS:	REG. GUIDE 1.97						
2CCP*MOV14A	GATE VLV SFC*E1A INLET	VELAN	P304R	A	SC215122	H	P304RAA
REMARKS:	REG. GUIDE 1.97						
2CCP*MOV14B	GATE VLV SFC*E1B INLET	VELAN	P304R	A	SC215122	H	P304RAB
REMARKS:	REG. GUIDE 1.97						
2CCP*MOV15A	RCS-CONT ISO OUTBD	VELAN	P304R	A	SC261145	H	P304RAC
REMARKS:	REG. GUIDE 1.97						
2CCP*MOV15B	RCS-CONT ISO OUTBD	VELAN	P304R	A	SC261145	H	P304RAD
REMARKS:	REG. GUIDE 1.97						
2CCP*MOV16A	RCS-CONT ISO INBD	VELAN	P304R	A	PC261649	H	P304RAE
REMARKS:	REG. GUIDE 1.97						
2CCP*MOV16B	RCS-CONT ISO INBD	VELAN	P304R	A	PC261641	H	P304RAF
REMARKS:	REG. GUIDE 1.97						
2CCP*MOV17A	RCS-CONT ISO OUTBD	VELAN	P304R	A	SC261145	H	P304RAG
REMARKS:	REG. GUIDE 1.97						
2CCP*MOV17B	RCS-CONT ISO OUTBD	VELAN	P304R	A	SC261145	H	P304RAH
REMARKS:	REG. GUIDE 1.97						
2CCP*MOV18A	GATE VLV. SFC*E1A OUTLET	VELAN	P304R	A	SC215122	H	P304RAI
REMARKS:							

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2CCP*MOV18B	GATE VLV. SFC*E1B OUTLET	VELAN	P304R	A	SC215122	H	P304RAJ
REMARKS:							
2CCP*MOV22A	GATE VLV. RCS OUTLET BLOCK VLV	VELAN	P304R	A	SC261145	H	P304RAK
REMARKS:							
2CCP*MOV22B	GATE VLV. RCS OUTLET BLOCK VLV	VELAN	P304R	A	SC261145	H	P304RAL
REMARKS:							
2CCP*MOV265	DRS-CONT ISO OUTBD	VELAN	P304R	A	SC240135	H	P304RAS
REMARKS:	REG. GUIDE 1.97						
2CCP*MOV273	DRS-CONT ISO INBD	VELAN	P304R	A	PC250630	H	P304RAT
REMARKS:	REG. GUIDE 1.97						
2CCP*MOV93A	GATE VLV. RCS INLET BLOCK VLV	VELAN	P304R	A	SC261145	H	P304RAM
REMARKS:							
2CCP*MOV93B	GATE VLV. RCS INLET BLOCK VLV	VELAN	P304R	A	SC261145	H	P304RAN
REMARKS:							
2CCP*MOV94A	RCS-CONT ISO INBD	VELAN	P304R	A	PC261649	H	P304RAO
REMARKS:							
2CCP*MOV94B	RCS-CONT ISO INBD	VELAN	P304R	A	PC261641	H	P304RAP
REMARKS:							
2CCP*PT90A	RBCLCW TO 2RCS-P1A CLRS	ROSEMOUNT	C071M	A	SC261145	H	C071MAA
REMARKS:							
2CCP*PT90B	RBCLCW TO 2RCS-P1A CLRS	ROSEMOUNT	C071M	A	SC240135	H	C071MAB
REMARKS:							

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2CES*Z01E	PENETRATION NEUTRON MON (B)	CONAX CORP	E021P	A	PC250621	H	E021PAA
REMARKS:							
2CES*Z02E	PENETRATION NEUTRON MON (B)	CONAX CORP	E021P	A	PC240603	H	E021PAB
REMARKS:							
2CES*Z05E	PENETRATION INSTR (N)	CONAX CORP	E021P	A	PC250621	H	E021PAE
REMARKS:							
2CES*Z06E	PENETRATION INSTR (G)	CONAX CORP	E021P	A	PC240603	H	E021PAF
REMARKS:							
2CES*Z07E	PENETRATION CONTROL (G)	CONAX CORP	E021P	A	PC250621	H	E021PAG
REMARKS:							
2CES*Z08E	PENETRATION CONTROL (G)	CONAX CORP	E021P	A	PC240603	H	E021PAH
REMARKS:							
2CES*Z09E	PENETRATION 600V POWER (G)	CONAX CORP	E021P	A	PC250621	H	E021PAI
REMARKS:							
2CES*Z10E	PENETRATION CONTROL (G)	CONAX CORP	E021P	A	PC240603	H	E021PAJ
REMARKS:							
2CES*Z11E	PENETRATION NEUTRON MON (G)	CONAX CORP	E021P	A	PC250625	H	E021PAK
REMARKS:							
2CES*Z12E	PENETRATION NEUTRON MON (G)	CONAX CORP	E021P	A	PC240607	H	E021PAL
REMARKS:							
2CES*Z17E	PENETRATION RPS CONTROL (Y)	CONAX CORP	E021P	A	PC250627	H	E021PAQ
REMARKS:							
2CES*Z18E	PENETR POWER CONT & INSTR (Y)	CONAX CORP	E021P	A	PC240609	H	E021PAR
REMARKS:							
2CES*Z19E	PENETRATION CONTROL (Y)	CONAX CORP	E021P	A	PC250627	H	E021PAS
REMARKS:							
2CES*Z20E	PENETRATION CONTROL (Y)	CONAX CORP	E021P	A	PC240609	H	E021PAT
REMARKS:							
2CES*Z21E	PENETRATION 600V POWER (Y)	CONAX CORP	E021P	A	PC250627	H	E021PAU
REMARKS:							

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2CES*Z22E	PENETRATION INSTR (N)	CONAX CORP	E021P	A	PC240609	H	E021PAV
REMARKS:							
2CES*Z23E	PENETRATION NEUTRON MON (Y)	CONAX CORP	E021P	A	PC250627	H	E021PAW
REMARKS:							
2CES*Z24E	PENETRATION NEUTRON MON (Y)	CONAX CORP	E021P	A	PC240609	H	E021PAX
REMARKS:							
2CES*Z25E	PENETRATION CONTROL (Y)	CONAX CORP	E021P	A	PC250627	H	E021PAY
REMARKS:							
2CES*Z26E	PENETRATION RPS CONTROL (Y)	CONAX CORP	E021P	A	PC240609	H	E021PAZ
REMARKS:							
2CES*Z29E	PENETRATION NEUTRON MON (O)	CONAX CORP	E021P	A	PC250630	H	E021PBC
REMARKS:							
2CES*Z30E	PENETRATION NEUTRON MON (O)	CONAX CORP	E021P	A	PC240612	H	E021PBD
REMARKS:							
2CES*Z51E	PENETRATION RPS CONTROL (B)	CONAX CORP	E021P	A	PC240601	H	E021PBW
REMARKS:							
2CES*Z52E	PENETRATION RPS CONTROL (G)	CONAX CORP	E021P	A	PC250623	H	E021PBX
REMARKS:							
2CES*Z53E	PENETRATION HPCS CONTROL (P)	CONAX CORP	E021P	A	PC261649	H	E021PBY
REMARKS:							
2CES*Z54E	PENETRATION HPCS CONTROL (O)	CONAX CORP	E021P	A	PC250630	H	E021PBZ
REMARKS:							
2CES*Z57E	PENETR POWER CONT & INSTR (G)	CONAX CORP	E021P	A	PC215121	H	E021PCB
REMARKS:							
2CES*Z58E	PENETR POWER CONT & INSTR (Y)	CONAX CORP	E021P	A	PC215121	H	E021PCC
REMARKS:							
2CES*Z59E	PENETR POWER CONT & INSTR (Y)	CONAX CORP	E021P	A	PC215121	H	E021PCD
REMARKS:							
2CES-Z03E	PENETRATION RPIS INSTR (N)	CONAX CORP	E021P	A	PC250621	H	E021PAC
REMARKS:							

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2CES-Z04E	PENETRATION RPIS INSTR (N)	CONAX CORP	E021P	A	PC240603	H	E021PAD
REMARKS:							
2CES-Z13E	PENETRATION RPIS INSTR (N)	CONAX CORP	E021P	A	PC250625	H	E021PAH
REMARKS:							
2CES-Z14E	PENETRATION RPIS INSTR (N)	CONAX CORP	E021P	A	PC240607	H	E021PAN
REMARKS:							
2CES-Z15E	PENETRATION RPIS INSTR (N)	CONAX CORP	E021P	A	PC250627	H	E021PAO
REMARKS:							
2CES-Z16E	PENETRATION RPIS INSTR (N)	CONAX CORP	E021P	A	PC240609	H	E021PAP
REMARKS:							
2CES-Z27E	PENETRATION RPIS INSTR (N)	CONAX CORP	E021P	A	PC250630	H	E021PBA
REMARKS:							
2CES-Z28E	PENETRATION RPIS INSTR (N)	CONAX CORP	E021P	A	PC240612	H	E021PBB
REMARKS:							
2CES-Z31E	PENETRATION 600V POWER (N)	CONAX CORP	E021P	A	PC261641	H	E021PBE
REMARKS:							
2CES-Z32E	PENETRATION 600V POWER (N)	CONAX CORP	E021P	A	PC261641	H	E021PBF
REMARKS:							
2CES-Z33E	PENETRATION CONTROL (N)	CONAX CORP	E021P	A	PC261641	H	E021PBG
REMARKS:							
2CES-Z34E	PENETRATION CONTROL (N)	CONAX CORP	E021P	A	PC261641	H	E021PBH
REMARKS:							
2CES-Z35E	PENETRATION INSTR (N)	CONAX CORP	E021P	A	PC261641	H	E021PBI
REMARKS:							
2CES-Z36E	PENETRATION INSTR (N)	CONAX CORP	E021P	A	PC261641	H	E021PBJ
REMARKS:							
2CES-Z37E	PENETRATION CONTROL (N)	CONAX CORP	E021P	A	PC261641	H	E021PBK
REMARKS:							
2CES-Z38E	PENETRATION CONTROL (N)	CONAX CORP	E021P	A	PC261641	H	E021PBL
REMARKS:							

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2CES-Z39E	PENETRATION INSTR (N)	CONAX CORP	E021P	A	PC261641	H	E021PBM
REMARKS:							
2CES-Z40E	PENETRATION CONTROL (N)	CONAX CORP	E021P	A	PC261641	H	E021PBN
REMARKS:							
2CES-Z41E	PENETRATION CONTROL (N)	CONAX CORP	E021P	A	PC261649	H	E021PBO
REMARKS:							
2CES-Z42E	PENETRATION INSTR (N)	CONAX CORP	E021P	A	PC261649	H	E021PBP
REMARKS:							
2CES-Z43E	PENETRATION CONTROL (N)	CONAX CORP	E021P	A	PC261649	H	E021PBQ
REMARKS:							
2CES-Z44E	PENETRATION INSTR (N)	CONAX CORP	E021P	A	PC261649	H	E021PBR
REMARKS:							
2CES-Z45E	PENETRATION 13.8 KV (N)	CONAX CORP	E021P	A	PC261649	H	E021PBS
REMARKS:							
2CES-Z46E	PENETRATION 13.8 KV (N)	CONAX CORP	E021P	A	PC261649	H	E021PBT
REMARKS:							
2CES-Z47E	PENETRATION 600V POWER (N)	CONAX CORP	E021P	A	PC261641	H	E021PBU
REMARKS:							
2CES-Z48E	PENETRATION UNASSIGNED	CONAX CORP	E021P	A	PC261644	H	E021PCG
REMARKS:							
2CES-Z49E	PENETRATION 600V POWER (N)	CONAX CORP	E021P	A	PC261649	H	E021PBV
REMARKS:							
2CES-Z50E	PENETRATION UNASSIGNED	CONAX CORP	E021P	A	PC261649	H	E021PCH
REMARKS:							
2CES-Z55E	PENETRATION 600V POWER (N)	CONAX CORP	E021P	A	PC261641	H	E021PCA
REMARKS:							
2CES-Z56E	PENETRATION UNSIGNED	CONAX CORP	E021P	A	PC215121	H	E021PCF
REMARKS:							
2CES-Z60E	PENETR POWER CONT & INSTR (N)	CONAX CORP	E021P	A	PC215121	H	E021PCE
REMARKS:							

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2CMS*CAB10A	CONTMT ATM LEAKAGE RADM	KAMAN INSTM	P281F	B	SC289155	H	P281FAA
REMARKS:							
2CMS*CAB10B	CONTMT ATM LEAKAGE RADM	KAMAN INSTM	P281F	B	SC289155	H	P281FAB
REMARKS:							
2CMS*LT11A	SUPPRESSION POOL LEVEL	ROSEMOUNT	C071M	A	SC175102	H	C071MAE
REMARKS:							
2CMS*LT11B	SUPPRESSION POOL LEVEL	ROSEMOUNT	C071M	A	SC175105	H	C071MAF
REMARKS:	REG. GUIDE 1.97						
2CMS*LT9A	SUPPRESSION POOL LEVEL	ROSEMOUNT	C071M	A	SC175102	H	C071MAC
REMARKS:	REG. GUIDE 1.97						
2CMS*LT9B	SUPPRESSION POOL LEVEL	ROSEMOUNT	C071M	A	SC175102	H	C071MAD
REMARKS:	REG. GUIDE 1.97						
2CMS*PNL66A	H.2 ANALYZER PNL A	CONSIP INC.	C001C	A	ABN24033	H	C001CAA
REMARKS:							
2CMS*PNL66B	H.2 ANALYZER PNL B	CONSIP INC.	C001C	A	ABS24036	H	C001CAB
REMARKS:							
2CMS*PT1A	CONTAINMENT DRYWELL PRESS	ROSEMOUNT	C071M	A	SC289155	H	C071MAG
REMARKS:	REG. GUIDE 1.97						
2CMS*PT1B	CONTAINMENT DRYWELL PRESS	ROSEMOUNT	C071M	A	SC289155	H	C071MAH
REMARKS:	REG. GUIDE 1.97						
2CMS*PT2A	CONTAINMENT DRYWELL PRESS	ROSEMOUNT	C071M	A	SC261145	H	C071MAI
REMARKS:	REG. GUIDE 1.97						
2CMS*PT2B	CONTAINMENT DRYWELL PRESS	ROSEMOUNT	C071M	A	SC261145	H	C071MAJ
REMARKS:	REG. GUIDE 1.97						
2CMS*PT7A	SUPPRESSION CHAMBER PRESS	ROSEMOUNT	C071M	A	SC240135	H	C071MAK
REMARKS:	REG. GUIDE 1.97						
2CMS*PT7B	SUPPRESSION CHAMBER PRESS	ROSEMOUNT	C071M	A	SC261145	H	C071MAL
REMARKS:	REG. GUIDE 1.97						
2CMS*SOV23A	DRYWELL AIR SAMPLE	TARGET ROCK CORP	P304X	A	PC289681	H	P304XAA
REMARKS:							

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2CMS*SOV23B	DRYWELL AIR SAMPLE	TARGET ROCK CORP	P304X	A	PC289681	H	P304XAB
REMARKS:							
2CMS*SOV23C	DRYWELL AIR SAMPLE	TARGET ROCK CORP	P304X	A	PC289680	H	P304XAC
REMARKS:							
2CMS*SOV23D	DRYWELL AIR SAMPLE	TARGET ROCK CORP	P304X	A	PC289680	H	P304XAD
REMARKS:							
2CMS*SOV23E	DRYWELL AIR SAMPLE	TARGET ROCK CORP	P304X	A	PC289681	H	P304XAE
REMARKS:							
2CMS*SOV23F	DRYWELL AIR SAMPLE	TARGET ROCK CORP	P304X	A	PC289680	H	P304XAF
REMARKS:							
2CMS*SOV24A	DWAIR CMPL INBD ISOL	TARGET ROCK CORP	P304X	A	PC289681	H	P304XAG
REMARKS:	REG. GUIDE 1.97						
2CMS*SOV24B	DWAIR SMPL INBD ISOL	TARGET ROCK CORP	P304X	A	PC289681	H	P304XAH
REMARKS:	REG. GUIDE 1.97						
2CMS*SOV24C	DW AIR SMPL OUTBD ISOL	TARGET ROCK CORP	P304X	A	SC289155	H	P304XAI
REMARKS:	REG. GUIDE 1.97						
2CMS*SOV24D	DW AIR SMPL OUTBD ISOL	TARGET ROCK CORP	P304X	A	SC289155	H	P304XAJ
REMARKS:	REG. GUIDE 1.97						
2CMS*SOV25A	SUPP CHMB AIR SAMPLE	TARGET ROCK CORP	P304X	A	PC215121	H	P304XAK
REMARKS:							
2CMS*SOV25B	SUPP CHMB AIR SAMPLE	TARGET ROCK CORP	P304X	A	PC215121	H	P304XAL
REMARKS:							
2CMS*SOV25C	SUPP CHMB AIR SAMPLE	TARGET ROCK CORP	P304X	A	PC215121	H	P304XAM
REMARKS:							
2CMS*SOV25D	SUPP CHMB AIR SAMPLE	TARGET ROCK CORP	P304X	A	PC215121	H	P304XAN
REMARKS:							
2CMS*SOV26A	SUPP CHMB AIR SMPL INBD ISO	TARGET ROCK CORP	P304X	A	PC215121	H	P304XAO
REMARKS:	REG. GUIDE 1.97						
2CMS*SOV26B	SUPP CHMB AIR SMPL IN BD ISO	TARGET ROCK CORP	P304X	A	PC215121	H	P304XAP
REMARKS:	REG. GUIDE 1.97						

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2CMS*SOV26C	SUPP CHMB AIR SMPL OUTBD ISO	TARGET ROCK CORP	P304X	A	SC215122	H	P304XAQ
REMARKS:	REG. GUIDE 1.97						
2CMS*SOV26D	SUPP CHMB AIR SMPL OUTBD ISO	TARGET ROCK CORP	P304X	A	SC215122	H	P304XAR
REMARKS:	REG. GUIDE 1.97						
2CMS*SOV32A	DRYWELL SMPL RTN OUTBD ISOL	TARGET ROCK CORP	P304X	A	SC261145	H	P304XAS
REMARKS:	REG. GUIDE 1.97						
2CMS*SOV32B	DRYWELL SMPL RTN OUTBD ISOL	TARGET ROCK CORP	P304X	A	SC261145	H	P304XAT
REMARKS:	REG. GUIDE 1.97						
2CMS*SOV33A	DRYWELL SMPL RTN INBD ISOL	TARGET ROCK CORP	P304X	A	PC261644	H	P304XAU
REMARKS:	REG. GUIDE 1.97						
2CMS*SOV33B	DRYWELL SMPL RTN INBD ISOL	TARGET ROCK CORP	P304X	A	PC261649	H	P304XAV
REMARKS:	REG. GUIDE 1.97						
2CMS*SOV34A	SUPP CHMB SMPL RTN INBD ISOL	TARGET ROCK CORP	P304X	A	PC215121	H	P304XAW
REMARKS:	REG. GUIDE 1.97						
2CMS*SOV34B	SUPP CHMB SMPL RTN INBD ISOL	TARGET ROCK CORP	P304X	A	PC215121	H	P304XAX
REMARKS:	REG. GUIDE 1.97						
2CMS*SOV35A	SUPP CHMB SMPL RTN OUTBD ISOL	TARGET ROCK CORP	P304X	A	SC215122	H	P304XAY
REMARKS:	REG. GUIDE 1.97						
2CMS*SOV35B	SUPP CHMB SMPL RTN INBD ISOL	TARGET ROCK CORP	P304X	A	SC215122	H	P304XAZ
REMARKS:	REG. GUIDE 1.97						
2CMS*SOV60B	DW RADN OUTBD INLET ISOL	TARGET ROCK CORP	P304X	A	SC306175	H	P304XBB
REMARKS:	REG. GUIDE 1.97						
2CMS*SOV61A	DW RADN INBD INLET ISOL	TARGET ROCK CORP	P304X	A	PC306713	H	P304XBC
REMARKS:	REG. GUIDE 1.97						
2CMS*SOV61B	DW RADN INBD INLET ISOL	TARGET ROCK CORP	P304X	A	PC306713	H	P304XBD
REMARKS:	REG. GUIDE 1.97						
2CMS*SOV62A	DW RADN OUTBD OUTLET ISOL	TARGET ROCK CORP	P304X	A	SC289155	H	P304XBE
REMARKS:	REG. GUIDE 1.97						
2CMS*SOV62B	DW RADN OUTBD OUTLET ISOL	TARGET ROCK CORP	P304X	A	SC261145	H	P304XBF
REMARKS:	REG. GUIDE 1.97						

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2CHS*SOV63A	DH RADN INBD OUTLET ISOL	TARGET ROCK CORP	P304X	A	PC261644	H	P304XBG
REMARKS:	REG. GUIDE 1.97						
2CHS*SOV63B	DH RADN INBD OUTLET ISOL	TARGET ROCK CORP	P304X	A	PC261649	H	P304XBH
REMARKS:	REG. GUIDE 1.97						
2CHS*SOV64A	H2/02 ANALYZER INL ISOL	TARGET ROCK CORP	P304X	A	ABN24033	H	P304XBI
REMARKS:							
2CHS*SOV64B	H2/02 ANALYZER INL ISOL	TARGET ROCK CORP	P304X	A	ABS24036	H	P304XBJ
REMARKS:							
2CHS*SOV65A	H2/02 ANALYZER OUT ISOL	TARGET ROCK CORP	P304X	A	ABN24033	H	P304XBK
REMARKS:							
2CHS*SOV65B	H2/02 ANALYZER OUT ISOL	TARGET ROCK CORP	P304X	A	ABS24036	H	P304XBL
REMARKS:							
2CHS*SOV74A	PAS SAMPLE-A LOOP	TARGET ROCK CORP	P304X	A	SC240135	H	P304XBM
REMARKS:							
2CHS*SOV74B	PAS SAMPLE-B LOOP	TARGET ROCK CORP	P304X	A	SC240135	H	P304XBN
REMARKS:							
2CHS*SOV75A	PAS SAMPLE-A LOOP	TARGET ROCK CORP	P304X	A	SC240135	H	P304XBO
REMARKS:							
2CHS*SOV75B	PAS SAMPLE-B LOOP	TARGET ROCK CORP	P304X	A	SC240135	H	P304XBP
REMARKS:							
2CHS*SOV76A	POST LOCA SAMPL SUCT ISOL V	TARGET ROCK CORP	P304X	A	SC240135	H	P304XBQ
REMARKS:							
2CHS*SOV76B	POST LOCA SAMPL SUCT ISOL V	TARGET ROCK CORP	P304X	A	SC240135	H	P304XBR
REMARKS:							
2CHS*SOV77A	POST LOCA SAMPL RTN ISOL V	TARGET ROCK CORP	P304X	A	SC240135	H	P304XBS
REMARKS:							
2CHS*SOV77B	POST LOCA SAMPL RTN ISOL V	TARGET ROCK CORP	P304X	A	SC240135	H	P304XBT
REMARKS:							
2CHS*TE101	DRYWELL AREA TEMP	PYCO	C041D	A	PC306713	H	C041DBH
REMARKS:	REG. GUIDE 1.97						

PROJECT EQUIPMENT SYSTEM
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NINE MILE - UNIT 2
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EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2CMS*TE102	DRYWELL AREA TEMP	PYCO	C041D	A	PC289681	H	C041DBX
REMARKS:	REG. GUIDE 1.97						
2CMS*TE103	DRYWELL AREA TEMP	PYCO	C041D	A	PC261641	H	C041DBY
REMARKS:	REG. GUIDE 1.97						
2CMS*TE104	DRYWELL AREA TEMP	PYCO	C041D	A	PC261649	H	C041DBZ
REMARKS:	REG. GUIDE 1.97						
2CMS*TE105	DRYWELL AREA TEMP	PYCO	C041D	A	PC250619	H	C041DCA
REMARKS:	REG. GUIDE 1.97						
2CMS*TE106	DRYWELL AREA TEMP	PYCO	C041D	A	PC240612	H	C041DCB
REMARKS:	REG. GUIDE 1.97						
2CMS*TE107	SUPP CHAMBER AREA TEMP	PYCO	C041D	A	SC215122	H	C041DCC
REMARKS:	REG. GUIDE 1.97						
2CMS*TE108	SUPP CHAMBER AREA TEMP	PYCO	C041D	A	PC215121	H	C041DCD
REMARKS:	REG. GUIDE 1.97						
2CMS*TE109	SUPP CHAMBER AREA TEMP	PYCO	C041D	A	PC215121	H	C041DCE
REMARKS:	REG. GUIDE 1.97						
2CMS*TE116	DRYWELL AREA TEMP	PYCO	C041D	A	PC306713	H	C041DCF
REMARKS:	REG. GUIDE 1.97						
2CMS*TE117	DRYWELL AREA TEMP	PYCO	C041D	A	PC289681	H	C041DCG
REMARKS:	REG. GUIDE 1.97						
2CMS*TE118	DRYWELL AREA TEMP	PYCO	C041D	A	PC261649	H	C041DCH
REMARKS:	REG. GUIDE 1.97						
2CMS*TE119	DRYWELL AREA TEMP	PYCO	C041D	A	PC261638	H	C041DCI
REMARKS:	REG. GUIDE 1.97						
2CMS*TE120	DRYWELL AREA TEMP	PYCO	C041D	A	PC250625	H	C041DCJ
REMARKS:	REG. GUIDE 1.97						
2CMS*TE121	DRYWELL AREA TEMP	PYCO	C041D	A	PC240603	H	C041DCK
REMARKS:	REG. GUIDE 1.97						
2CMS*TE122	SUPP CHAMBER AREA TEMP	PYCO	C041D	A	SC215122	H	C041DCL
REMARKS:	REG. GUIDE 1.97						

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2CMS*TE123	SUPP CHAMBER AREA TEMP	PYCO	C041D	A	PC215121	H	C041DCM
REMARKS:	REG. GUIDE 1.97						
2CMS*TE124	SUPP CHAMBER AREA TEMP	PYCO	C041D	A	PC215121	H	C041DCN
REMARKS:	REG. GUIDE 1.97						
2CMS*TE50A	SUPPR POOL WATER TEMP	PYCO	C041D	A	SC196113	H	C041DAA
REMARKS:							
2CMS*TE50B	SUPPR POOL WATER TEMP	PYCO	C041D	A	SC196113	H	C041DAB
REMARKS:							
2CMS*TE50C	SUPPR POOL WATER TEMP	PYCO	C041D	A	SC196113	H	C041DAC
REMARKS:							
2CMS*TE50D	SUPPR POOL WATER TEMP	PYCO	C041D	A	SC196113	H	C041DAD
REMARKS:							
2CMS*TE51A	SUPPR POOL WATER TEMP	PYCO	C041D	A	SC196113	H	C041DAE
REMARKS:							
2CMS*TE51B	SUPPR POOL WATER TEMP	PYCO	C041D	A	SC196113	H	C041DAF
REMARKS:							
2CMS*TE51C	SUPPR POOL WATER TEMP	PYCO	C041D	A	SC196113	H	C041DAG
REMARKS:							
2CMS*TE51D	SUPPR POOL WATER TEMP	PYCO	C041D	A	SC196113	H	C041DAH
REMARKS:							
2CMS*TE52A	SUPPR POOL WATER TEMP	PYCO	C041D	A	SC196113	H	C041DAI
REMARKS:							
2CMS*TE52B	SUPPR POOL WATER TEMP	PYCO	C041D	A	SC196113	H	C041DAJ
REMARKS:							
2CMS*TE52C	SUPPR POOL WATER TEMP	PYCO	C041D	A	SC196113	H	C041DAK
REMARKS:							
2CMS*TE52D	SUPPR POOL WATER TEMP	PYCO	C041D	A	SC196113	H	C041DAL
REMARKS:							
2CMS*TE53A	SUPP POOL WATER TEMP	PYCO	C041D	A	SC196116	H	C041DAM
REMARKS:							

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2CMS*TE53B	SUPP POOL WATER TEMP	PYCO	C041D	A	SC196116	H	C041DAN
REMARKS:							
2CMS*TE53C	SUPP POOL WATER TEMP	PYCO	C041D	A	SC196116	H	C041DAO
REMARKS:							
2CMS*TE53D	SUPP POOL WATER TEMP	PYCO	C041D	A	SC196116	H	C041DAP
REMARKS:							
2CMS*TE54A	SUPP POOL WATER TEMP	PYCO	C041D	A	SC196116	H	C041DAQ
REMARKS:							
2CMS*TE54B	SUPP POOL WATER TEMP	PYCO	C041D	A	SC196116	H	C041DAR
REMARKS:							
2CMS*TE54C	SUPP POOL WATER TEMP	PYCO	C041D	A	SC196116	H	C041DAS
REMARKS:							
2CMS*TE54D	SUPP POOL WATER TEMP	PYCO	C041D	A	SC196116	H	C041DAT
REMARKS:							
2CMS*TE55A	SUPP POOL WATER TEMP	PYCO	C041D	A	SC196116	H	C041DAU
REMARKS:							
2CMS*TE55B	SUPP POOL WATER TEMP	PYCO	C041D	A	SC196116	H	C041DAV
REMARKS:							
2CMS*TE55C	SUPP POOL WATER TEMP	PYCO	C041D	A	SC196116	H	C041DAH
REMARKS:							
2CMS*TE55D	SUPP POOL WATER TEMP	PYCO	C041D	A	SC196116	H	C041DAX
REMARKS:							
2CMS*TE56A	SUPP POOL WATER TEMP	PYCO	C041D	A	SC196116	H	C041DAY
REMARKS:							
2CMS*TE56B	SUPP POOL WATER TEMP	PYCO	C041D	A	SC196116	H	C041DAZ
REMARKS:							
2CMS*TE56C	SUPP POOL WATER TEMP	PYCO	C041D	A	SC196116	H	C041DBA
REMARKS:							
2CMS*TE56D	SUPP POOL WATER TEMP	PYCO	C041D	A	SC196116	H	C041DBB
REMARKS:							

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2CMS*TE57A	SUPP POOL WATER TEMP	PYCO	C041D	A	SC196116	H	C041DBC
REMARKS:							
2CMS*TE57B	SUPP POOL WATER TEMP	PYCO	C041D	A	SC196116	H	C041DBD
REMARKS:							
2CMS*TE57C	SUPP POOL WATER TEMP	PYCO	C041D	A	SC196116	H	C041DBE
REMARKS:							
2CMS*TE57D	SUPP POOL WATER TEMP	PYCO	C041D	A	SC196116	H	C041DBF
REMARKS:							
2CMS*TE58A	SUPP POOL WATER TEMP	PYCO	C041D	A	SC196113	H	C041DBG
REMARKS:							
2CMS*TE58B	SUPP POOL WATER TEMP	PYCO	C041D	A	SC196113	H	C041DBH
REMARKS:							
2CMS*TE58C	SUPP POOL WATER TEMP	PYCO	C041D	A	SC196113	H	C041DBI
REMARKS:							
2CMS*TE58D	SUPP POOL WATER TEMP	PYCO	C041D	A	SC196113	H	C041DBJ
REMARKS:							
2CMS*TE59A	SUPP POOL WATER TEMP	PYCO	C041D	A	SC196113	H	C041DBK
REMARKS:							
2CMS*TE59B	SUPP POOL WATER TEMP	PYCO	C041D	A	SC196113	H	C041DBL
REMARKS:							
2CMS*TE59C	SUPP POOL WATER TEMP	PYCO	C041D	A	SC196113	H	C041DBM
REMARKS:							
2CMS*TE59D	SUPP POOL WATER TEMP	PYCO	C041D	A	SC196113	H	C041DBN
REMARKS:							
2CMS*TE67A	SUPP POOL WATER TEMP	PYCO	C041D	A	PC215121	H	C041DBO
REMARKS:REG. GUIDE 1.97							
2CMS*TE67B	SUPP POOL WATER TEMP	PYCO	C041D	A	PC215121	H	C041DBP
REMARKS:REG. GUIDE 1.97							
2CMS*TE68A	SUPP POOL WATER TEMP	PYCO	C041D	A	PC215121	H	C041DBQ
REMARKS:REG. GUIDE 1.97							

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL. REF
2CMS*TE68B	SUPP POOL WATER TEMP	PYCO	C041D	A	PC215121	H	C041DBR
REMARKS:REG. GUIDE 1.97							
2CMS*TE69A	SUPP POOL WATER TEMP	PYCO	C041D	A	PC215121	H	C041DBS
REMARKS:REG. GUIDE 1.97							
2CMS*TE69B	SUPP POOL WATER TEMP	PYCO	C041D	A	PC215121	H	C041DBT
REMARKS:REG. GUIDE 1.97							
2CMS*TE70A	SUPP POOL WATER TEMP	PYCO	C041D	A	SC215122	H	C041DBU
REMARKS:REG. GUIDE 1.97							
2CMS*TE70B	SUPP POOL WATER TEMP	PYCO	C041D	A	SC215122	H	C041DBV
REMARKS:REG. GUIDE 1.97							

SYS -- CPS
REPORT NO. NMP815

PROJECT EQUIPMENT SYSTEM
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REPORT DATE 03/26/85
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RESET NO. 015
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J.O.NO. 1217700
JOB NAME NINE MILE - UNIT 2
JOB CLIENT NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2CPS*AOV104	2CPS-FN1 DW INL OUTBD V	POSI-SEAL INTER.	P304D	A	SC289155	H	P304DAA
REMARKS:	REG. GUIDE 1.97						
2CPS*AOV105	2CPS-FN1 SUPPR INL OUTBD V	POSI-SEAL INTER.	P304D	A	SC215125	H	P304DAB
REMARKS:	REG. GUIDE 1.97						
2CPS*AOV106	2CPS-FN1 DW INL INBD V	POSI-SEAL INTER.	P304D	A	PC289681	H	P304DAC
REMARKS:	REG. GUIDE 1.97						
2CPS*AOV107	2CPS-FN1 SUPPR INL INBD V	POSI-SEAL INTER.	P304D	A	PC215121	H	P304DAD
REMARKS:	REG. GUIDE 1.97						
2CPS*AOV108	DRYWELL EXH INBD ISOL V	POSI-SEAL INTER.	P304D	A	PC289681	H	P304DAE
REMARKS:	REG. GUIDE 1.97						
2CPS*AOV109	SUPPR EXH INBD ISOL V	POSI-SEAL INTER.	P304D	A	PC215121	H	P304DAF
REMARKS:	REG. GUIDE 1.97						
2CPS*AOV110	DRYWELL EXH OUTBD ISOL V	POSI-SEAL INTER.	P304D	A	SC289155	H	P304DAG
REMARKS:	REG. GUIDE 1.97						
2CPS*AOV111	SUPPR EXH OUTBD ISOL V	POSI-SEAL INTER.	P304D	A	SC215122	H	P304DAH
REMARKS:	REG. GUIDE 1.97						
2CPS*SOV119	SUPPR INL OUTBD ISOL V	TARGET ROCK CORP	P304X	A	SC215122	H	P304XBU
REMARKS:	REG. GUIDE 1.97						
2CPS*SOV120	DRYWELL INL OUTBD ISOL V	TARGET ROCK CORP	P304X	A	SC289155	H	P304XBV
REMARKS:	REG. GUIDE 1.97						
2CPS*SOV121	SUPPR INL INBD ISOL V	TARGET ROCK CORP	P304X	A	PC215121	H	P304XBW
REMARKS:	REG. GUIDE 1.97						
2CPS*SOV122	DRYWELL INL INBD ISOL V	TARGET ROCK CORP	P304X	A	PC289681	H	P304XBX
REMARKS:	REG. GUIDE 1.97						

SYS -- CSH
REPORT NO. NMP815

PROJECT EQUIPMENT SYSTEM
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SORTED BY SYS/EQ1
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REPORT DATE 03/26/85
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J.O.NO. 1217700
JOB NAME NINE MILE - UNIT 2
JOB CLIENT NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2CSH*AOV108	2CSH-PI DISCH TEST CHECK	ANCHOR/DARLING	P303H	A	PC306712	H	P303HAA
REMARKS:REG. GUIDE 1.97							
2CSH*HCV120	REACTOR VESSEL HAND CONTROL	VELAN	P304E	A	PC306711	H	P304EAA
REMARKS:REG. GUIDE 1.97							
2CSH*HCV133	CORE SPRAY P TEST BYPASS	COPES VULCAN	C051M	A	SC215122	H	C051MAO
REMARKS:							
2CSH*M2	HPCS SYS PRESSURE MOTOR	GOULD PUMPS INC.	P222X	A	SC175108	H	P222XAD
REMARKS:							

SYS -- CSL
REPORT NO. NMP815

J.O.NO. 1217700
JOB NAME NINE MILE - UNIT 2
JOB CLIENT NIAGARA MOHAWK

PROJECT EQUIPMENT SYSTEM
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EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2CSL*AOV101	INBD TESTABLE CHECK VALVE	ANCHOR/DARLING	P303H	A	PC306711	H	P303HAB
REMARKS:	REG. GUIDE 1.97						
2CSL*FV114	CORE SPRAY PUMP TEST BYPASS	COPES-VULCAN	C051M	A	SC175103	H	C051MAA
REMARKS:							
2CSL*HCV117	RX VSSL HAND CONTROL VLV	VELAN	P304E	A	PC306711	H	P304EAH
REMARKS:							
2CSL*MOV104	LPCS INJECTION VALVE	VELAN	P304R	A	SC289155	H	P304RAU
REMARKS:	REG. GUIDE 1.97						
2CSL*MOV107	GATE VALVE	VELAN	P304R	A	ABN17503	H	P304RAV
REMARKS:							
2CSL*MOV112	LPCS PMP SUCT VALVE	CLOH CORP	P304Y	A	SC196114	H	P304YAA
REMARKS:	REG. GUIDE 1.97						
2CSL*M2	LPCS SYS PRESSURE MOTOR	GOULD PUMPS INC	P222X	A	ABN17503	H	P222XAF
REMARKS:							

SYS -- DER
REPORT NO. NMP815

J.O.NO. 1217700
JOB NAME NINE MILE - UNIT 2
JOB CLIENT NIAGARA MOHAWK

PROJECT EQUIPMENT SYSTEM
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EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2DER*MOV119	GATE VALVE	VELAN	P304S	A	PC215121	H	P304SAA
REMARKS:							
2DER*MOV120	GATE VALVE	VELAN	P304S	A	SC215125	H	P304SAB
REMARKS:							
2DER*MOV128	GLOBE VALVE	VELAN	P304R	A	PC240606	H	P304RAW
REMARKS:							
2DER*MOV129	GLOBE VALVE	VELAN	P304R	A	PC240606	H	P304RAX
REMARKS:							
2DER*MOV130	GLOBE VALVE	VELAN	P304S	A	PC240603	H	P304SAC
REMARKS:							
2DER*MOV131	GLOBE VALVE	VELAN	P304S	A	SC240135	H	P304SAD
REMARKS:							

PROJECT EQUIPMENT SYSTEM
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NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2DFR*LS143	RHS B PMP RM FLD HTR LVL	MAGNETROL	C021L	A	ABS17509	H	C021LAC
REMARKS:							
2DFR*LS144	RHS C PMP RM FLD HTR LVL	MAGNETROL	C021L	A	ABS17508	H	C021LAD
REMARKS:							
2DFR*LS145	ICS PMP RM FLD HTR LVL	MAGNETROL	C021L	A	SC175106	H	C021LAE
REMARKS:							
2DFR*LS146	CSM PMP RM FLD HTR LVL	MAGNETROL	C021L	A	SC175108	H	C021LAF
REMARKS:							
2DFR*LS147	CSL PMP RM FLD HTR LVL	MAGNETROL	C021L	A	ABN17503	H	C021LAG
REMARKS:							
2DFR*LS148	RHS A PMP RM FLD HTR LVL	MAGNETROL	C021L	A	ABN17504	H	C021LAH
REMARKS:							
2DFR*LS3A	2RHS*E1A CUBICLE FLOODED	MAGNETROL	C021L	A	ABN17505	H	C021LAA
REMARKS:							
2DFR*LS3B	2RHS*E1B CUBICLE FLOODED	MAGNETROL	C021L	A	ABS17510	H	C021LAB
REMARKS:							
2DFR*MOV120	GATE VALVE	VELAN	P304S	A	SC215123	H	P304SAE
REMARKS:							
2DFR*MOV121	GATE VALVE	VELAN	P304S	A	PC215121	H	P304SAF
REMARKS:	REG. GUIDE 1.97						
2DFR*MOV139	GATE VALVE	VELAN	P304S	A	SC240137	H	P304SAG
REMARKS:							
2DFR*MOV140	GATE VALVE	VELAN	P304S	A	PC240601	H	P304SAH
REMARKS:	REG. GUIDE 1.97						

PROJECT EQUIPMENT SYSTEM
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NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2DMS*MCCA1	125VDC MCC RB ELEV. 240	GOULD	E015Q	B	ABN24033	H	E015QAA
REMARKS:							
2DMS*MCCB1	125VDC MCC RB ELEV. 240	GOULD	E015Q	B	ABS24036	H	E015QAB
REMARKS:							

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2EHS*MCC102	STANDBY MCC CLASS 1E	GOULD	E015Q	B	ABN24033	H	E015QAC
REMARKS:							
2EHS*MCC302	EMERG MCC	GOULD	E015Q	B	ABS24036	H	E015QAD
REMARKS:							

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2EJA*PNL100A	RB 120V HEATER PNL	BROWN BOVERI	E014T	A	ABN24033	H	E014TAA
REMARKS:							
2EJA*PNL300B	RB 120V HEATER PNL	BROWN BOVERI	E014T	A	ABS24036	H	E014TAB
REMARKS:							
2EJA*XD100A	DIST XFMR 600V-208Y/120V	SQUARE "D"	E011T	A	ABN24033	H	E011TAC
REMARKS:							
2EJA*XD300B	DIST XFMR 600V-208Y/120V	SQUARE "D"	E011T	A	ABS24036	H	E011TAD
REMARKS:							

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2EJS*PNL101A	SWGR RM A EMER 600V PNL	BROWN BOVERI	E014T	A	ABN24033	H	E014TAC
REMARKS:							
2EJS*PNL103A	AB-N EMER 600V PNL	BROWN BOVERI	E014T	A	ABN24033	H	E014TAD
REMARKS:							
2EJS*PNL104A	AB-N EMER 600V PNL	BROWN BOVERI	E014T	A	ABN24033	H	E014TAE
REMARKS:							
2EJS*PNL302B	AB-S EMER 600V PNL	BROWN BOVERI	E014T	A	ABS24036	H	E014TAF
REMARKS:							
2EJS*PNL303B	AB-S EMER 600V PNL	BROWN BOVERI	E014T	A	ABS24036	H	E014TAG
REMARKS:							
2EJS*PNL304B	AB-S EMER 600V PNL	BROWN BOVERI	E014T	A	ABS24036	H	E014TAH
REMARKS:							

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2EPS*SWG001	13.8KV ENERG SWG001	GOULD BROWN BOVE	E015N	A	ABN24033	H	E015NAA
REMARKS:							
2EPS*SWG002	13.8KV ENERG SWG002	GOULD BROWN BOVE	E015N	A	ABN24033	H	E015NAB
REMARKS:							
2EPS*SWG003	13.8KV ENERG SWG003	GOULD BROWN BOVE	E015N	A	ABS24036	H	E015NAC
REMARKS:							
2EPS*SWG004	13.8KV ENERG SWG004	GOULD BROWN BOVE	E015N	A	ABS24036	H	E015NAD
REMARKS:							

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2FPH*SOV218	2RCS-P1A FIRE PROT HTR CONT	TARGET ROCK CORP	P304X	A	SC240135	H	P304XBY
REMARKS:	REG. GUIDE 1.97						
2FPH*SOV219	2RCS-P1A FIRE PROT HTR CONT	TARGET ROCK CORP	P304X	A	PC250625	H	P304XBZ
REMARKS:	REG. GUIDE 1.97						
2FPH*SOV220	2RCS-P1B FIRE PROT HTR CONT	TARGET ROCK CORP	P304X	A	SC240135	H	P304XCA
REMARKS:	REG. GUIDE 1.97						
2FPH*SOV221	2RCS-P1B FIRE PROT HTR CONT	TARGET ROCK CORP	P304X	A	PC250619	H	P304XCB
REMARKS:	REG. GUIDE 1.97						

PROJECT EQUIPMENT SYSTEM
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NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2FHS*MOV21A	GATE VALVE	VELAN	P304R	A	MST24045	H	P304RAY
REMARKS:REG. GUIDE 1.97							
2FHS*MOV21B	GATE VALVE	VELAN	P304R	A	MST24045	H	P304RAZ
REMARKS:REG. GUIDE 1.97							

SYS -- GTS
REPORT NO. NMP815

J.O.NO. 1217700
JOB NAME NINE MILE - UNIT 2
JOB CLIENT NIAGARA MOHAWK

PROJECT EQUIPMENT SYSTEM
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EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2GTS*AOV101	PRIMARY CONT PURGE ISOL V	POSI-SEAL INTER.	P304D	A	SC306181	H	P304DAI
REMARKS:							
2GTS*CH1A	FILTER TRAIN A HEATER	NINE SAFETY APPL	P243U	B	SG261356	H	P243UAA
REMARKS:							
2GTS*CH1B	FILTER TRAIN B HEATER	NINE SAFETY APPL	P243U	B	SG261355	H	P243UAB
REMARKS:							
2GTS*DMP1A	TORNADO DAMPER-SGTS BLDG	PACIFIC AIR PROD	P413T	A	SG261356	H	P413TAA
REMARKS:							
2GTS*DMP1B	TORNADO DAMPER-SGTS BLDG	PACIFIC AIR PROD	P413T	A	SG261355	H	P413TAB
REMARKS:							
2GTS*DMP2A	TORNADO DAMPER-SGTS BLDG	PACIFIC AIR PROD	P413T	A	SG261356	H	P413TAC
REMARKS:							
2GTS*DMP2B	TORNADO DAMPER-SGTS BLDG	PACIFIC AIR PROD	P413T	A	SG261355	H	P413TAD
REMARKS:							
2GTS*FN1A	*FLT1A DISCHARGE FAN	BUFFALO FORGE	P413S	A	SG261356	H	P413SAA
REMARKS:							
2GTS*FN1B	*FLT1B DISCHARGE FAN	BUFFALO FORGE	P413S	A	SG261355	H	P413SAB
REMARKS:							
2GTS*FS25A	*CH1A HTR AIR FLOW CUTOUT	NINE SAFETY APPL	P243U	B	SG261356	H	P243UAC
REMARKS:							
2GTS*FS25B	*CH1B HTR AIR FLOW CUTOUT	NINE SAFETY APPL	P243U	B	SG261355	H	P243UAD
REMARKS:							
2GTS*FT10A	2GTS*FAN 1A DISCH FLOW	ROSEMOUNT	C071M	A	SG261356	H	C071MBI
REMARKS:							
2GTS*FT10B	2GTS*FAN 1B DISCH FLOW	ROSEMOUNT	C071M	A	SG261355	H	C071MBJ
REMARKS:							
2GTS*MOV1A	BUTTERFLY OR TRICENTRIC VALVE	CLOW CORP	P304Y	A	SC306181	H	P304YAB
REMARKS:							
2GTS*MOV1B	BUTTERFLY OR TRICENTRIC VALVE	CLOW CORP	P304Y	A	SC306181	H	P304YAC
REMARKS:							

SYS -- GTS
REPORT NO. NMP815

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST
USER SPECIFIED REPORT
SORTED BY SYS/EQ1
SELECTED FOR ZNIND IS H

REPORT DATE 03/26/85
UPDATE DATE 03/25/85
RESET NO. 015
RESET DATE 11/23/84

J.O.NO. 1217700
JOB NAME NINE MILE - UNIT 2
JOB CLIENT NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2GTS*MOV2A	BUTTERFLY OR TRICENTRIC VALVE	CLOW CORP	P304Y	C	SG261356	H	P304YAD
REMARKS:							
2GTS*MOV2B	BUTTERFLY OR TRICENTRIC VALVE	CLOW CORP	P304Y	C	SG261355	H	P304YAE
REMARKS:							
2GTS*MOV28A	CROSS-BLEED L VLV	CLOW CORP	P304Y	C	SG261356	H	P304YAH
REMARKS:							
2GTS*MOV28B	CROSS-BLEED L VLV	CLOW CORP	P304Y	C	SG261355	H	P304YAI
REMARKS:							
2GTS*MOV3A	BUTTERFLY OR TRICENTRIC VALVE	CLOW CORP	P304Y	C	SG261356	H	P304YAF
REMARKS:							
2GTS*MOV3B	BUTTERFLY OR TRICENTRIC VALVE	CLOW CORP	P304Y	C	SG261355	H	P304YAG
REMARKS:							
2GTS*MOV4A	GATE VALVE	VELAN	P304R	A	SG261356	H	P304RBA
REMARKS:							
2GTS*MOV4B	GATE VALVE	VELAN	P304R	A	SG261355	H	P304RBB
REMARKS:							
2GTS*PDT21A	2GTS*FLT 1A DIFF PRESS	NINE SAFETY APPL	P243U	B	SG261356	H	P243UAE
REMARKS:							
2GTS*PDT21B	2GTS*FLT 1B DIFF PRESS	NINE SAFETY APPL	P243U	B	SG261355	H	P243UAF
REMARKS:							
2GTS*PDT5A	RX BLDG IN/OUT DIFF PRESS	ROSE MOUNT INC	C071M	A	SG261355	H	C071MBK
REMARKS:							
2GTS*PDT5B	RX BLDG IN/OUT DIFF PRESS	ROSE MOUNT INC	C071M	A	SG261355	H	C071MBL
REMARKS:							
2GTS*PNL30A	REMOTE CONTROL PANEL	NINE SAFETY APPL	P243U	B	SG261356	H	P243UAG
REMARKS:							
2GTS*PNL30B	REMOTE CONTROL PANEL	NINE SAFETY APPL	P243U	B	SG261355	H	P243UAH
REMARKS:							
2GTS*PV5A	RX BLDG IN/OUT DIFF PRESS	CLOW CORP	P304Y	C	SG261356	H	P304YAJ
REMARKS:							

SYS -- GTS
REPORT NO. NMP815

J.O.NO. 1217700
JOB NAME NINE MILE - UNIT 2
JOB CLIENT NIAGARA MOHAWK

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST
USER SPECIFIED REPORT
SORTED BY SYS/EQ1
SELECTED FOR ZNIND IS H

REPORT DATE 03/26/85
UPDATE DATE 03/25/85
RESET NO. 015
RESET DATE 11/23/84

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2GTS*PV5B	RX BLDG IN/OUT DIFF PRESS	CLOW CORP	P304Y	C	SG261355	H	P304YAK
REMARKS:							
2GTS*SOV102	PRIMARY CONT PURGE ISOL V	TARGET ROCK CORP	P304X	A	SC306181	H	P304XCC
REMARKS:							
2GTS*TEX26A	FLTR TRAIN HTR INLET TEMP	NINE SAFETY APPL	P243U	B	SG261356	H	P243UAI
REMARKS:							
2GTS*TEX26B	FLTR TRAIN HTR INLET TEMP	NINE SAFETY APPL	P243U	B	SG261355	H	P243UAJ
REMARKS:							
2GTS*TEY26A	FLTR TRAIN HTR OUTLET TEMP	NINE SAFETY APPL	P243U	B	SG261356	H	P243UAK
REMARKS:							
2GTS*TEY26B	FLTR TRAIN HTR OUTLET TEMP	NINE SAFETY APPL	P243U	B	SG261355	H	P243UAL
REMARKS:							
2GTS*TIS23A	CHARCOAL ADSORB TEMP H	NINE SAFETY APPL	P243U	B	SG261356	H	P243UAN
REMARKS:							
2GTS*TIS23B	CHARCOAL ADSORB TEMP H	NINE SAFETY APPL	P243U	B	SG261355	H	P243UAN
REMARKS:							
2GTS*TIS29A	CROSS BLEED PIPE GAS TEMP H	NCC POWERS	C071A	A	SG261356	H	C071ABV
REMARKS:							
2GTS*TIS29B	CROSS BLEED PIPE GAS TEMP H	NCC POWERS	C071A	A	SG261355	H	C071ABH
REMARKS:							
2GTS*TS24A	*CH1A HTR TEMP CUTOUT	NINE SAFETY APPL	P243U	B	SG261356	H	P243UAO
REMARKS:							
2GTS*TS24B	*CH1B HTR TEMP CUTOUT	NINE SAFETY APPL	P243U	B	SG261355	H	P243UAP
REMARKS:							
2GTS*XD1A	XFMR 600-480V	NINE SAFETY APPL	P243U	B	SG261356	H	P243UAQ
REMARKS:							
2GTS*XD1B	XFMR 600V-480V	NINE SAFETY APPL	P243U	B	SG261355	H	P243UAR
REMARKS:							

SYS -- HCS
REPORT NO. NMP815

J.O.NO. 1217700
JOB NAME NINE MILE - UNIT 2
JOB CLIENT NIAGARA MOHAWK

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST
USER SPECIFIED REPORT
SORTED BY SYS/EQ1
SELECTED FOR ZNIND IS H

REPORT DATE 03/26/85
UPDATE DATE 03/25/85
RESET NO. 015
RESET DATE 11/23/84

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2HCS*IPNL22A	H2 RECOMB PWR CAB	ATOMIC INT.	P282K	B	ABN24033	H	P282KAA
REMARKS:							
2HCS*IPNL22B	H2 RECOMBINER CAB	ATOMIC INT.	P282K	B	ABS24036	H	P282KAB
REMARKS:							
2HCS*MOV1A	RBNR1A OUTLET OUTBD ISOL	VELAN	P304S	A	SC215123	H	P304SAI
REMARKS:	REG. GUIDE 1.97						
2HCS*MOV1B	RBNR1A OUTLET OUTBD ISOL	VELAN	P304S	A	SC215132	H	P304SAJ
REMARKS:	REG. GUIDE 1.97						
2HCS*MOV2A	RBNR1A INLET OUTLBD ISOL	VELAN	P304S	A	SC215122	H	P304SAK
REMARKS:	REG. GUIDE 1.97						
2HCS*MOV2B	RBNR1A INLET OUTLBD ISOL	VELAN	P304S	A	SC215122	H	P304SAL
REMARKS:	REG. GUIDE 1.97						
2HCS*MOV3A	RBNR1A INLET OUTLBD ISOL	VELAN	P304S	A	SC240140	H	P304SAM
REMARKS:	REG. GUIDE 1.97						
2HCS*MOV3B	RBNR1B INLET OUTLBD ISOL	VELAN	P304S	A	SC240143	H	P304SAN
REMARKS:	REG. GUIDE 1.97						
2HCS*MOV4A	RBNR1A OUTLET INBD ISOL	VELAN	P304S	A	PC215121	H	P304SAO
REMARKS:	REG. GUIDE 1.97						
2HCS*MOV4B	RBNR1B OUTLET INBD ISOL	VELAN	P304S	A	PC215121	H	P304SAP
REMARKS:	REG. GUIDE 1.97						
2HCS*MOV5A	RBN1A INLET INBD ISOL	VELAN	P304S	A	PC215121	H	P304SAQ
REMARKS:	REG. GUIDE 1.97						
2HCS*MOV5B	RBN1B INLET INBD ISOL	VELAN	P304S	A	PC215121	H	P304SAR
REMARKS:	REG. GUIDE 1.97						
2HCS*MOV6A	RBN1A INLET INBD ISOL	VELAN	P304S	A	PC250621	H	P304SAS
REMARKS:	REG. GUIDE 1.97						
2HCS*MOV6B	RBN1B INLET INBD ISOL	VELAN	P304S	A	PC250629	H	P304SAT
REMARKS:	REG. GUIDE 1.97						
2HCS*RBNR1A	HYDROGEN RECOMB 1A	ATOMIC INT.	P282K	B	SC240135	H	P282KAC
REMARKS:*							

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2HCS*RBNR1B	HYDROGEN RECOMB 1B	ATOMIC INT.	P282K	B	SC240135	H	P282KAD
REMARKS:*		*					
2HCS*SOV10A	RBNR1A CLG HTR INLET	TARGET ROCK CORP	P304X	A	SC240135	H	P304XCD
REMARKS:							
2HCS*SOV10B	RBNR1B CLG HTR INLET	TARGET ROCK CORP	P304X	A	SC240135	H	P304XCE
REMARKS:							
2HCS*SOV11A	RBNR1A CLG HTR DRAIN	TARGET ROCK CORP	P304X	A	SC240135	H	P304XCF
REMARKS:							
2HCS*SOV11B	RBNR1B CLG HTR DRAIN	TARGET ROCK CORP	P304X	A	SC240135	H	P304XCG
REMARKS:							

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2HTS*ACC1HTPA	HEAT TRACING PIPE ASSEMBLY	THERMON	E092B	A	ALL	H	E092BAC
REMARKS:							
2HTS*ACC3HTPA	HEAT TRACING PIPE ASSEMBLY	THERMON	E092B	A	ALL	H	E092BAD
REMARKS:							
2HTS*PNL001	HEAT TRACING CONTROL PANEL	THERMON	E092B	A	ABN24033	H	E092BAA
REMARKS:							
2HTS*PNL003	HEAT TRACING CONTROL PANEL	THERMON	E092B	A	ABS24036	H	E092BAB
REMARKS:							
2HTS*XD001	HEAT TRACING XFMG 600V-240/120	SQUARE "D"	E011T	A	ABN24033	H	E011TAE
REMARKS:							
2HTS*XD003	HEAT TRACING XFMG 600V-240/120	SQUARE "D"	E011T	A	ABS24036	H	E011TAF
REMARKS:							

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2HVR*AOD1A	SUPPLY AIR ISOL DMPR	PACIFIC AIR PROD	P413T	A	SC289155	H	P413TAE
REMARKS:	REG. GUIDE 1.97						
2HVR*AOD1B	SUPPLY AIR ISOL DMPR	PACIFIC AIR PROD	P413T	A	SC289155	H	P413TAF
REMARKS:	REG. GUIDE 1.97						
2HVR*AOD10A	EXH AIR ISOL DMPR	PACIFIC AIR PROD	P413T	A	SC353202	H	P413TAK
REMARKS:	REG. GUIDE 1.97						
2HVR*AOD10B	EXH AIR ISOL DMPR	PACIFIC AIR PROD	P413T	A	SC353202	H	P413TAL
REMARKS:	REG. GUIDE 1.97						
2HVR*AOD204	REAC HD EVAC FLT3 DISCH DMPR	PACIFIC AIR PROD	P413T	A	SC289155	H	P413TAO
REMARKS:							
2HVR*AOD34A	*UC413A TEST DMPR	PACIFIC AIR PROD	P413T	A	SC289155	H	P413TAM
REMARKS:							
2HVR*AOD34B	UC413B TEST DMPR	PACIFIC AIR PROD	P413T	A	SC289155	H	P413TAN
REMARKS:							
2HVR*AOD6A	*UC413A INLET DMPR	PACIFIC AIR PROD	P413T	A	SC289155	H	P413TAG
REMARKS:	REG. GUIDE 1.97						
2HVR*AOD6B	*UC413B INLET DMPR	PACIFIC AIR PROD	P413T	A	SC289155	H	P413TAH
REMARKS:	REG. GUIDE 1.97						
2HVR*AOD9A	EXH AIR ISOL DMPR	PACIFIC AIR PROD	P413T	A	SC306181	H	P413TAI
REMARKS:	REG. GUIDE 1.97						
2HVR*AOD9B	EXH AIR ISOL DMPR	PACIFIC AIR PROD	P413T	A	SC306181	H	P413TAJ
REMARKS:	REG. GUIDE 1.97						
2HVR*CAB14A	RX BLDG ABV REFUEL FL FADN	KAMAN INSTM	P281F	B	SC328187	H	P281FAC
REMARKS:							
2HVR*CAB14B	RX BLDG ABV REFUEL FL FADN	KAMAN INSTM	P281F	B	SC328187	H	P281FAD
REMARKS:							
2HVR*CAB32A	RX BLDG BLW REFUEL FL RADN	KAMAN INSTM	P281F	B	SC328187	H	P281FAE
REMARKS:							
2HVR*CAB32B	RX BLDG BLW REFUEL FL RADN	KAMAN INSTM	P281F	B	SC328187	H	P281FAF
REMARKS:							

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2HVR*FE18A	RX BLDG ENERG RECIRC UC413 A	MCC POWERS	C071A	A	SC289155	H	C071ABN
REMARKS:							
2HVR*FE18B	RX BLDG ENERG RECIRC UC413B	MCC POWERS	C071A	A	SC289155	H	C071ABO
REMARKS:							
2HVR*FE18C	RX BLDG ENERG RECIRC UC413A	MCC POWERS	C071A	A	SC289155	H	C071ABP
REMARKS:							
2HVR*FE18D	RX BLDG ENERG RECIRC UC413B	MCC POWERS	C071A	A	SC289155	H	C071ABQ
REMARKS:							
2HVR*FE36A	ABV REFUEL FLAIR FLOW	MCC POWERS	C071A	A	SC353202	H	C071ABR
REMARKS:							
2HVR*FE36B	ABV REFUEL FLAIR FLOW	MCC POWERS	C071A	A	SC353202	H	C071ABS
REMARKS:							
2HVR*FE37A	BLW REFUEL FLAIR FLOW	MCC POWERS	C071A	A	SC289155	H	C071ABT
REMARKS:							
2HVR*FE37B	BLW REFUEL FLAIR FLOW	MCC POWERS	C071A	A	SC289155	H	C071ABU
REMARKS:							
2HVR*SMPT14A	RX BLDG ABV REFUEL FL RADN	KAMAN INSTM	P281F	B	SC353202	H	P281FAG
REMARKS:							
2HVR*SMPT14B	RX BLDG ABV REFUEL FL RADN	KAMAN INSTM	P281F	B	SC353202	H	P281FAH
REMARKS:							
2HVR*SMPT32A	RX BLDG BLW REFUEL FL RADN	KAMAN INSTM	P281F	B	SC289155	H	P281FAI
REMARKS:							
2HVR*SMPT32B	RX BLDG BLW REFUEL FL RADN	KAMAN INSTM	P281F	B	SC289155	H	P281FAJ
REMARKS:							
2HVR*SOV236	GLOBE VALVE	TARGET ROCK CORP	P304X	A	SC289155	H	P304XCJ
REMARKS:							
2HVR*TIS115	RHR HT EX RM B *UC406	MCC POWERS	C071A	A	ABS19620	H	C071ABL
REMARKS:							
2HVR*TIS116	RHR HT EX RM A *UC405	MCC POWERS	C071A	A	ABN19615	H	C071ABM
REMARKS:							

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2HVR*TIS16A	ELEC MCC AREA UC409A	MCC POWERS	C071A	A	ABS24036	H	C071AAA
REMARKS:							
2HVR*TIS16B	ELEC MCC AREA UC409B	MCC POWERS	C071A	A	ABS24036	H	C071AAB
REMARKS:							
2HVR*TIS19A	ELEC MCC AREA*UC408A	MCC POWERS	C071A	A	ABN24033	H	C071AAC
REMARKS:							
2HVR*TIS19B	ELEC MCC AREA*UC408B	MCC POWERS	C071A	A	ABN24033	H	C071AAD
REMARKS:							
2HVR*TIS22A	LPCS PP RM *UC402A	MCC POWERS	C071A	A	ABN17503	H	C071AAE
REMARKS:							
2HVR*TIS22B	LPCS PP RM *UC402B	MCC POWERS	C071A	A	ABN17503	H	C071AAF
REMARKS:							
2HVR*TIS23A	RHR PP RM A *UC401A	MCC POWERS	C071A	A	ABN17504	H	C071AAG
REMARKS:							
2HVR*TIS23B	RHR PP RM C *UC401B	MCC POWERS	C071A	A	ABS17508	H	C071AAH
REMARKS:							
2HVR*TIS23C	RHR PP RM B *UC401C	MCC POWERS	C071A	A	ABS17509	H	C071AAI
REMARKS:							
2HVR*TIS23D	RHR PP RM A *UC401D	MCC POWERS	C071A	A	ABN17504	H	C071AAJ
REMARKS:							
2HVR*TIS23E	RHR PP RM C *UC401E	MCC POWERS	C071A	A	ABS17508	H	C071AAK
REMARKS:							
2HVR*TIS23F	RHR PP RM B *UC401F	MCC POWERS	C071A	A	ABS17509	H	C071AAL
REMARKS:							
2HVR*TIS24A	HPCS PP RM *UC403A	MCC POWERS	C071A	A	SC196116	H	C071AAM
REMARKS:							
2HVR*TIS24B	HPCS PP RM *UC403B	MCC POWERS	C071A	A	SC196116	H	C071AAN
REMARKS:							
2HVR*TIS25A	GEN AREA EL175 *UC404A	MCC POWERS	C071A	A	SC196116	H	C071AAO
REMARKS:							

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2HVR*TIS25B	GEN AREA EL175 *UC404B	MCC POWERS	C071A	A	SC196113	H	C071AAP
REMARKS:							
2HVR*TIS25C	GEN AREA EL175 *UC404C	MCC POWERS	C071A	A	SC196113	H	C071AAQ
REMARKS:							
2HVR*TIS25D	GEN AREA EL175 *UC404D	MCC POWERS	C071A	A	SC196116	H	C071AAR
REMARKS:							
2HVR*TIS26A	GEN AREA EL215 *UC407A	MCC POWERS	C071A	A	SC215122	H	C071AAS
REMARKS:							
2HVR*TIS26B	GEN AREA EL215 *UC407B	MCC POWERS	C071A	A	SC215122	H	C071AAT
REMARKS:							
2HVR*TIS26C	GEN AREA EL215 *UC407C	MCC POWERS	C071A	A	SC215122	H	C071AAU
REMARKS:							
2HVR*TIS26D	GEN AREA EL215 *UC407D	MCC POWERS	C071A	A	SC215122	H	C071AAV
REMARKS:							
2HVR*TIS26E	GEN AREA EL215 *UC407E	MCC POWERS	C071A	A	SC215122	H	C071AAH
REMARKS:							
2HVR*TIS27A	GEN AREA EL240 *UC410A	MCC POWERS	C071A	A	SC240135	H	C071AAX
REMARKS:							
2HVR*TIS27B	GEN AREA EL240 *UC410B	MCC POWERS	C071A	A	SC240135	H	C071AAY
REMARKS:							
2HVR*TIS27C	GEN AREA EL240 *UC410C	MCC POWERS	C071A	A	SC240135	H	C071AAZ
REMARKS:							
2HVR*TIS28A	GEN AREA EL261 *UC411A	MCC POWERS	C071A	A	SC261145	H	C071ABA
REMARKS:							
2HVR*TIS28B	GEN AREA EL261 *UC411B	MCC POWERS	C071A	A	SC261145	H	C071ABB
REMARKS:							
2HVR*TIS28C	GEN AREA EL261 *UC411C	MCC POWERS	C071A	A	SC261145	H	C071ABC
REMARKS:							
2HVR*TIS30A	GEN AREA EL261 *UC412A	MCC POWERS	C071A	A	SC175106	H	C071ABD
REMARKS:							

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2HVR*TIS30B	GEN AREA EL261 *UC412B	MCC POWERS	C071A	A	SC175106	H	C071ABE
REMARKS:							
2HVR*TIS31A	UC413A INLET TEMP	MCC POWERS	C071A	A	SC289155	H	C071ABF
REMARKS:							
2HVR*TIS31B	UC413B INLET TEMP	MCC POWERS	C071A	A	SC289155	H	C071ABG
REMARKS:							
2HVR*TIS35A	GEN AREA EL261*UC414A	MCC POWERS	C071A	A	SC261145	H	C071ABH
REMARKS:							
2HVR*TIS35B	GEN AREA EL261*UC414B	MCC POWERS	C071A	A	SC261145	H	C071ABI
REMARKS:							
2HVR*TIS38A	GTS RM A *UC415A	MCC POWERS	C071A	A	SG261355	H	C071ABJ
REMARKS:							
2HVR*TIS38B	GTS RM A *UC415B	MCC POWERS	C071A	A	SG261356	H	C071ABK
REMARKS:							
2HVR*UC401A	RHR PUMP RM A - UNIT CLR	AMERICAN AIR FLT	P412M	B	ABN17504	H	P412MAA
REMARKS:							
2HVR*UC401B	RHR PUMP RM C - UNIT CLR	AMERICAN AIR FLT	P412M	B	ABS17508	H	P412MAB
REMARKS:							
2HVR*UC401C	RHR PUMP RM B - UNIT CLR	AMERICAN AIR FLT	P412M	B	ABS17509	H	P412MAC
REMARKS:							
2HVR*UC401D	RHR PUMP RM A - UNIT CLR	AMERICAN AIR FLT	P412M	B	ABN17504	H	P412MAD
REMARKS:							
2HVR*UC401E	RHR PUMP RM C - UNIT CLR	AMERICAN AIR FLT	P412M	B	ABS17508	H	P412MAE
REMARKS:							
2HVR*UC401F	RHR PUMP RM B - UNIT CLR	AMERICAN AIR FLT	P412M	B	ABS17509	H	P412MAF
REMARKS:							
2HVR*UC402A	LPCS PUMP RM UNIT CLR	AMERICAN AIR FLT	P412M	B	ABN17503	H	P412MAG
REMARKS:							
2HVR*UC402B	LPCS PUMP RM UNIT CLR	AMERICAN AIR FLT	P412M	B	ABN17503	H	P412MAH
REMARKS:							

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2HVR*UC403A	HPCS PUMP RM UNIT CLR	AMERICAN AIR FLT	P412M	B	SC175108	H	P412MAJ
REMARKS:							
2HVR*UC403B	HPCS PUMP RM UNIT CLR	AMERICAN AIR FLT	P412M	B	SC175109	H	P412MAK
REMARKS:							
2HVR*UC404A	RB EL 175 GEN AREA UNIT CLR	AMERICAN AIR FLT	P412M	B	SC196116	H	P412MAL
REMARKS:							
2HVR*UC404B	RB EL 175 GEN AREA UNIT CLR	AMERICAN AIR FLT	P412M	B	SC196113	H	P412MAM
REMARKS:							
2HVR*UC404C	RB EL 175 GEN AREA UNIT CLR	AMERICAN AIR FLT	P412M	B	SC196113	H	P412MAN
REMARKS:							
2HVR*UC404D	RB EL 175 GEN AREA UNIT CLR	AMERICAN AIR FLT	P412M	B	SC196116	H	P412MAP
REMARKS:							
2HVR*UC405	RHR HEAT EXCH RM UNIT CLR	AMERICAN AIR FLT	P412M	B	ABN19615	H	P412MAQ
REMARKS:							
2HVR*UC406	RHR HEAT EXCH RM UNIT CLR	AMERICAN AIR FLT	P412M	B	ABS19620	H	P412MAR
REMARKS:							
2HVR*UC407A	RB EL 215 GEN AREA UNIT CLR	AMERICAN AIR FLT	P412M	B	SC215122	H	P412MAS
REMARKS:							
2HVR*UC407B	RB EL 215 GEN AREA UNIT CLR	AMERICAN AIR FLT	P412M	B	SC215122	H	P412MAT
REMARKS:							
2HVR*UC407C	RB EL 215 GEN AREA UNIT CLR	AMERICAN AIR FLT	P412M	B	SC215122	H	P412MAU
REMARKS:							
2HVR*UC407D	RB EL 215 GEN AREA UNIT CLR	AMERICAN AIR FLT	P412M	B	SC215122	H	P412MAV
REMARKS:							
2HVR*UC407E	RB EL 215 GEN AREA UNIT CLR	AMERICAN AIR FLT	P412M	B	SC215122	H	P412MAW
REMARKS:							
2HVR*UC408A	ELEC MCC AREA UNIT CLR	AMERICAN AIR FLT	P412M	B	ABN24033	H	P412MAX
REMARKS:							
2HVR*UC408B	ELEC MCC AREA UNIT CLR	AMERICAN AIR FLT	P412M	B	ABN24033	H	P412MAY
REMARKS:							

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2HVR*UC409A	ELEC MCC AREA UNIT CLR	AMERICAN AIR FLT	P412M	B	ABS24036	H	P412MAZ
REMARKS:							
2HVR*UC409B	ELEC MCC AREA UNIT CLR	AMERICAN AIR FLT	P412M	B	ABS24036	H	P412MBA
REMARKS:							
2HVR*UC410A	RB EL 240 GEN AREA UNIT CLR	AMERICAN AIR FLT	P412M	B	SC240135	H	P412MBB
REMARKS:							
2HVR*UC410B	RB EL 240 GEN AREA UNIT CLR	AMERICAN AIR FLT	P412M	B	SC240135	H	P412MBC
REMARKS:							
2HVR*UC410C	RB EL 240 GEN AREA UNIT CLR	AMERICAN AIR FLT	P412M	B	SC240135	H	P412MBD
REMARKS:							
2HVR*UC411A	RB EL 261 GEN AREA UNIT CLR	AMERICAN AIR FLT	P412M	B	SC261145	H	P412MBE
REMARKS:							
2HVR*UC411B	RB SPACE COOLER ELEV 261	AMERICAN AIR FLT	P412M	B	SC261145	H	P412MBF
REMARKS:							
2HVR*UC411C	RB SPACE COOLER ELEV 261	AMERICAN AIR FLT	P412M	B	SC261145	H	P412MBG
REMARKS:							
2HVR*UC412A	RCIC PUMP ROOM UNIT CLR	AMERICAN AIR FLT	P412M	B	SC175106	H	P412MBH
REMARKS:							
2HVR*UC412B	RCIC PUMP ROOM UNIT CLR	AMERICAN AIR FLT	P412M	B	SC175106	H	P412MBJ
REMARKS:							
2HVR*UC413A	EMERGENCY RECIRC UNIT CLR	AMERICAN AIR FLT	P412M	B	SC289155	H	P412MBK
REMARKS:							
2HVR*UC413B	EMERGENCY RECIRC UNIT CLR	AMERICAN AIR FLT	P412M	B	SC289155	H	P412MBL
REMARKS:							
2HVR*UC414A	EL 261 GEN AREA UNIT CLR	AMERICAN AIR FLT	P412M	B	SC261145	H	P412MBM
REMARKS:							
2HVR*UC414B	EL 261 GEN AREA UNIT CLR	AMERICAN AIR FLT	P412M	B	SC261145	H	P412MBN
REMARKS:							
2HVR*UC415A	SG SPACE COOLER EL261	AMERICAN AIR FLT	P412M	B	SG261356	H	P412MBP
REMARKS:							

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2HVR*UC415B	SG SPACE COOLER EL261	AMERICAN AIR FLT	P412M	B	SG261355	H	P412MBQ

REMARKS:

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2IAS*PT181	ADS HEADER A PRESSURE	ROSEMOUNT	C071M	A	SC289155	H	C071MAM
REMARKS:	REG. GUIDE 1.97						
2IAS*PT186	ADS HEADER B PRESSURE	ROSEMOUNT	C071M	A	SC289155	H	C071MAN
REMARKS:	REG. GUIDE 1.97						
2IAS*PT230	ADS ACCUMULATOR TK32	ROSEMOUNT	C071M	A	SC289155	H	C071MAO
REMARKS:	REG. GUIDE 1.97						
2IAS*PT231	ADS ACCUMULATOR TK33	ROSEMOUNT	C071M	A	SC289155	H	C071MAP
REMARKS:	REG. GUIDE 1.97						
2IAS*PT232	ADS ACCUMULATOR TK34	ROSEMOUNT	C071M	A	SC289155	H	C071MAQ
REMARKS:	REG. GUIDE 1.97						
2IAS*PT233	ADS ACCUMULATOR TK35	ROSEMOUNT	C071M	A	SC306175	H	C071MAR
REMARKS:	REG. GUIDE 1.97						
2IAS*PT234	ADS ACCUMULATOR TK36	ROSEMOUNT	C071M	A	SC306175	H	C071MAS
REMARKS:	REG. GUIDE 1.97						
2IAS*PT235	ADS ACCUMULATOR TK37	ROSEMOUNT	C071M	A	SC306175	H	C071MAT
REMARKS:	REG. GUIDE 1.97						
2IAS*PT236	ADS ACCUMULATOR TK38	ROSEMOUNT	C071M	A	SC306175	H	C071MAU
REMARKS:	REG. GUIDE 1.97						
2IAS*SOVX181	ADS HEADER A PRESSURE	TARGET ROCK CORP	P304X	A	SC289155	H	P304XCS
REMARKS:							
2IAS*SOVX186	ADS HEADER B PRESSURE	TARGET ROCK CORP	P304X	A	SC289155	H	P304XCT
REMARKS:							
2IAS*SOVY181	ADS HEADER A PRESSURE	TARGET ROCK CORP	P304X	A	SC289155	H	P304XCU
REMARKS:							
2IAS*SOVY186	ADS HEADER B PRESSURE	TARGET ROCK CORP	P304X	A	SC289155	H	P304XCV
REMARKS:							
2IAS*SOV164	INSTR AIR CONTMT ISOL V	TARGET ROCK CORP	P304X	A	SC289155	H	P304XCK
REMARKS:	REG. GUIDE 1.97						
2IAS*SOV165	INSTR AIR CONTMT ISOL V	TARGET ROCK CORP	P304X	A	SC289155	H	P304XCL
REMARKS:	REG. GUIDE 1.97						

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2IAS*SOV166	INSTR AIR CONTMT ISOL V	TARGET ROCK CORP	P304X	A	SC289155	H	P304XCM
REMARKS:REG. GUIDE 1.97							
2IAS*SOV167	INSTR AIR CONTMT ISOL V	TARGET ROCK CORP	P304X	A	SC240135	H	P304XCN
REMARKS:REG. GUIDE 1.97							
2IAS*SOV168	INSTR AIR CONTMT ISOL V	TARGET ROCK CORP	P304X	A	SC289155	H	P304XCO
REMARKS:REG. GUIDE 1.97							
2IAS*SOV180	INSTR AIR CONTMT ISOL V	TARGET ROCK CORP	P304X	A	PC289681	H	P304XCP
REMARKS:REG. GUIDE 1.97							
2IAS*SOV184	INSTR AIR CONTMT ISOL V	TARGET ROCK CORP	P304X	A	PC289681	H	P304XCQ
REMARKS:REG. GUIDE 1.97							
2IAS*SOV185	INSTR AIR CONTMT ISOL V	TARGET ROCK CORP	P304X	A	PC240603	H	P304XCR
REMARKS:REG. GUIDE 1.97							

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2ICS*AOV109	TURB EXH DR ISOL	COPES-VULCAN	C051M	A	SC175106	H	C051MAB
REMARKS:							
2ICS*AOV110	TURB EXH DR ISOL	COPES-VULCAN	C051M	A	SC175106	H	C051MAC
REMARKS:							
2ICS*AOV130	ST LINE DR ISOL	COPES-VULCAN	C051M	A	SC175106	H	C051MAD
REMARKS:							
2ICS*AOV131	ST LINE DR ISOL	COPES-VULCAN	C051M	A	SC175106	H	C051MAE
REMARKS:							
2ICS*AOV156	TESTABLE CHECK V	ANCHOR/DARLING	P303W	A	SC289155	H	P303WAC
REMARKS:	REG. GUIDE 1.97						
2ICS*AOV157	TESTABLE CHECK V	ANCHOR/DARLING	P303W	A	PC328185	H	P303WAD
REMARKS:	REG. GUIDE 1.97						
2ICS*FV108	TEST BYP TO CNDS STOR TK	COPES-VULCAN	C051M	A	SC175106	H	C051MAF
REMARKS:							
2ICS*MOV116	RCIC LUBE OIL WATER SUPPLY	VELAN	P304R	A	SC175106	H	P304RBC
REMARKS:							
2ICS*MOV120	RCIC STEAM SPLY V TO TURBINE	VELAN	P304R	A	SC175106	H	P304RBD
REMARKS:							
2ICS*MOV121	STEAM SPLY LINE ISOL V (OUTBD)	VELAN	P304R	A	SC261150	H	P304RBE
REMARKS:	REG. GUIDE 1.97						
2ICS*MOV122	RCIC TURB EXH TO SUPPR POOL	VELAN	P304R	A	SC196118	H	P304RBF
REMARKS:	REG. GUIDE 1.97						
2ICS*MOV124	RCIC TEST FCV TO CNDS STOR TK.	VELAN	P304R	A	SC175106	H	P304RBG
REMARKS:							
2ICS*MOV126	RCIC INJECTION SHUTOFF VALVE	VELAN	P304R	A	SC289155	H	P304RBH
REMARKS:	REG. GUIDE 1.97						
2ICS*MOV128	RCIC ST SPLY LINE ISOL V	VELAN	P304R	A	PC261649	H	P304RBI
REMARKS:	REG. GUIDE 1.97						
2ICS*MOV129	PUMP SUCT FROM CNDS STOR TANK	VELAN	P304R	A	ABN24031	H	P304RBJ
REMARKS:							

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2ICS*MOV136	RCIC PMP SUCT FROM SUPPR POOL	VELAN	P304R	A	SC196117	H	P304RBK
REMARKS:	REG. GUIDE 1.97						
2ICS*MOV143	RCIC MIN FLOW TO SUPPR POOL	VELAN	P304R	A	SC196117	H	P304RBL
REMARKS:	REG. GUIDE 1.97						
2ICS*MOV148	RCIC VAC BRKR ISOL V(INBRD)	VELAN	P304S	A	SC196118	H	P304SAU
REMARKS:	REG. GUIDE 1.97						
2ICS*MOV159	MOTOR OPERATED GLOBE VALVE	VELAN	P304R	A	SC175106	H	P304RBM
REMARKS:							
2ICS*MOV164	RCIC VAC BRKR ISOL V (OUTBRD)	VELAN	P304S	A	SC196118	H	P304SAV
REMARKS:	REG. GUIDE 1.97						
2ICS*MOV170	RCIC STEAM LINE WARM-UP	VELAN	P304R	A	PC261649	H	P304RBN
REMARKS:	REG. GUIDE 1.97						
2ICS*M2	RCIC SYS PRESSURE MOTOR	GOULD PUMPS INC.	P222X	A	SC175106	H	P222XAC
REMARKS:							
2ICS*PCV115	LUBE OIL CLR PRESS CONT V	COPES-VULCAN	C051M	A	SC175106	H	C051MAG
REMARKS:							

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2ISC*SOV119	SOLENOID OPERATED VALVE	TARGET ROCK CORP	P304X	A	SC240135	H	P304XCH
REMARKS:							
2ISC*SOV120	SOLENOID OPERATED VALVE	TARGET ROCK CORP	P304X	A	SC215122	H	P304CX
REMARKS:							
2ISC*SOV123	SOLENOID OPERATED GLOBE VALVE	TARGET ROCK CORP	P304X	A	SC240135	H	P304XCY
REMARKS:							
2ISC*SOV124	SOLENOID OPERATED GLOBE VALVE	TARGET ROCK CORP	P304X	A	SC215122	H	P304XCZ
REMARKS:							

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2LMS*SOV152	DRYWELL PRESS INB ISOL	TARGET ROCK CORP	P304X	A	PC299699	H	P304XDA
REMARKS:REG. GUIDE 1.97							
2LMS*SOV153	DRYWELL PRESS OUT ISOL	TARGET ROCK CORP	P304X	A	SC289155	H	P304XDB
REMARKS:REG. GUIDE 1.97							
2LMS*SOV156	SUPP CHMB PRESS INB ISOL	TARGET ROCK CORP	P304X	A	PC215121	H	P304XDC
REMARKS:REG. GUIDE 1.97							
2LMS*SOV157	SUPP CHMB PRESS OUT ISOL	TARGET ROCK CORP	P304X	A	SC215130	H	P304XDD
REMARKS:REG. GUIDE 1.97							

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2MSS*HYV6A	MN STM LINE A INBD ISOLV	CROSBY	P303D	C	PC250619	H	P303DAA
REMARKS:	REG. GUIDE 1.97						
2MSS*HYV6B	MN STM LINE B INBD ISOLV	CROSBY	P303D	C	PC250619	H	P303DAB
REMARKS:	REG. GUIDE 1.97						
2MSS*HYV6C	MN STM LINE C INBD ISOLV	CROSBY	P303D	C	PC250619	H	P303DAC
REMARKS:	REG. GUIDE 1.97						
2MSS*HYV6D	MN STM LINE D INBD ISOL V	CROSBY	P303D	C	PC250619	H	P303DAD
REMARKS:	REG. GUIDE 1.97						
2MSS*HYV7A	MN STM LINE A OUTBD MSIV	CROSBY	P303D	C	MST24045	H	P303DAE
REMARKS:	REG. GUIDE 1.97						
2MSS*HYV7B	MN STM LINE B OUTBD MSIV	CROSBY	P303D	C	MST24045	H	P303DAF
REMARKS:	REG. GUIDE 1.97						
2MSS*HYV7C	MN STM LINE C OUTBD MSIV	CROSBY	P303D	C	MST24045	H	P303DAG
REMARKS:	REG. GUIDE 1.97						
2MSS*HYV7D	MN STM LINE D OUTBD MSIV	CROSBY	P303D	C	MST24045	H	P303DAH
REMARKS:	REG. GUIDE 1.97						
2MSS*IPNL90A	RELAY LOGIC CAB 2MSS*HVY6A	CROSBY	P303D	A	ABS24036	H	P303DAI
REMARKS:							
2MSS*IPNL90B	RELAY LOGIC CAB 2MSS*HVY6B	CROSBY	P303D	A	ABS24036	H	P303DAJ
REMARKS:							
2MSS*IPNL90C	RELAY LOGIC CAB 2MSS*HVY6C	CROSBY	P303D	A	ABS24036	H	P303DAK
REMARKS:							
2MSS*IPNL90D	RELAY LOGIC CAB 2MSS*HVY6D	CROSBY	P303D	A	ABS24036	H	P303DAL
REMARKS:							
2MSS*IPNL91A	RELAY LOGIC CAB 2MSS*HVY7AN/A	CROSBY	P303D	A	ABN24033	H	P303DAM
REMARKS:							
2MSS*IPNL91B	RELAY LOGIC CAB 2MSS*HVY7B	CROSBY	P303D	A	ABN24033	H	P303DAN
REMARKS:							
2MSS*IPNL91C	RELAY LOGIC CAB 2MSS*HVY7C	CROSBY	P303D	A	ABN24033	H	P303DAO
REMARKS:							

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE --UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2MSS*IPNL91D	RELAY LOGIC CAB 2MSS*MVY7C	CROSBY	P303D	A	ABN24033	H	P303DAP
REMARKS:							
2MSS*MOV108	REAC VESSEL HEAD VENT V	VELAN	P304R	A	PC306711	H	P304RBO
REMARKS:							
2MSS*MOV111	MN STEAM DRN INBD ISOL V	VELAN	P304R	A	PC240601	H	P304RBP
REMARKS:	REG. GUIDE 1.97						
2MSS*MOV112	MN STEAM DRN OUTBD ISOL V	VELAN	P304R	A	MST24045	H	P304RBQ
REMARKS:	REG. GUIDE 1.97						
2MSS*MOV118	REAC VESSEL HEAD VENT V	VELAN	P304R	A	PC306711	H	P304RBR
REMARKS:							
2MSS*MOV119	REAC VESSEL HEAD VENT V	VELAN	P304R	A	PC306711	H	P304RBS
REMARKS:							
2MSS*MOV189	ISOL CLG STM LINE DRV	VELAN	P304R	A	PC261649	H	P304RBT
REMARKS:							
2MSS*MOV207	ISBD MSIV DRN ISOL V	VELAN	P304R	A	PC240600	H	P304RBU
REMARKS:							
2MSS*MOV208	ISBD MSIV DRN ISOL V	VELAN	P304R	A	MST24045	H	P304RBV
REMARKS:	REG. GUIDE 1.97						
2MSS*SOV97A	BTWN MSIV LINE DR V	TARGET ROCK CORP	P304X	A	MST24045	H	P304XDE
REMARKS:							
2MSS*SOV97B	BTWN MSIV LINE DR V	TARGET ROCK CORP	P304X	A	MST24045	H	P304XDF
REMARKS:							
2MSS*SOV97C	BTWN MSIV LINE DR V	TARGET ROCK CORP	P304X	A	MST24045	H	P304XDG
REMARKS:							
2MSS*SOV97D	BTWN MSIV LINE DR V	TARGET ROCK CORP	P304X	A	MST24045	H	P304XDH
REMARKS:							

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2RCS*SOV104	2RCS-P1A DISCH SMP INBD ISOL	TARGET ROCK CORP	P304X	A	PC261641	H	P304XDY
REMARKS:REG. GUIDE 1.97							
2RCS*SOV105	2RCS-P1A DISCH SMP OUTBD ISOL	TARGET ROCK CORP	P304X	A	SC261145	H	P304XDZ
REMARKS:REG. GUIDE 1.97							
2RCS*SOV65A	RCS HYDR LINE ISOL SOV	TARGET ROCK CORP	P304X	A	SC261145	H	P304XDI
REMARKS:REG. GUIDE 1.97							
2RCS*SOV65B	RCS HYDR LINE ISOL SOV	TARGET ROCK CORP	P304X	A	SC261145	H	P304XDJ
REMARKS:REG. GUIDE 1.97							
2RCS*SOV66A	RCS HYDR LINE ISOL SOV	TARGET ROCK CORP	P304X	A	SC261145	H	P304XDK
REMARKS:REG. GUIDE 1.97							
2RCS*SOV66B	RCS HYDR LINE ISOL SOV	TARGET ROCK CORP	P304X	A	SC261145	H	P304XDL
REMARKS:REG. GUIDE 1.97							
2RCS*SOV67A	RCS HYDR LINE ISOL SOV	TARGET ROCK CORP	P304X	A	SC261145	H	P304XDM
REMARKS:REG. GUIDE 1.97							
2RCS*SOV67B	RCS HYDR LINE ISOL SOV	TARGET ROCK CORP	P304X	A	SC261145	H	P304XDN
REMARKS:REG. GUIDE 1.97							
2RCS*SOV68A	RCS HYDR LINE ISOL SOV	TARGET ROCK CORP	P304X	A	SC261145	H	P304XDO
REMARKS:REG. GUIDE 1.97							
2RCS*SOV68B	RCS HYDR LINE ISOL SOV	TARGET ROCK CORP	P304X	A	SC261145	H	P304XDP
REMARKS:REG. GUIDE 1.97							
2RCS*SOV79A	RCS INBD HYD LINE ISOL SOV	TARGET ROCK CORP	P304X	A	PC261644	H	P304XDQ
REMARKS:REG. GUIDE 1.97							
2RCS*SOV79B	RCS INBD HYD LINE ISOL SOV	TARGET ROCK CORP	P304X	A	PC261649	H	P304XDR
REMARKS:REG. GUIDE 1.97							
2RCS*SOV80A	RCS INBD HYD LINE ISOL SOV	TARGET ROCK CORP	P304X	A	PC261644	H	P304XDS
REMARKS:REG. GUIDE 1.97							
2RCS*SOV80B	RCS INBD HYD LINE ISOL SOV	TARGET ROCK CORP	P304X	A	PC261649	H	P304XDT
REMARKS:REG. GUIDE 1.97							
2RCS*SOV81A	RCS INBD HYD LINE ISOL SOV	TARGET ROCK CORP	P304X	A	PC261644	H	P304XDU
REMARKS:REG. GUIDE 1.97							

PROJECT EQUIPMENT SYSTEM
EQUIPMENT QUALIFICATION MASTER LIST

NINE MILE - UNIT 2
NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2RCS*SOV81B	RCS INBD HYD LINE ISOL SOV	TARGET ROCK CORP	P304X	A	PC261649	H	P304XDV
REMARKS:REG. GUIDE 1.97							
2RCS*SOV82A	RCS INBD HYD LINE ISOL SOV	TARGET ROCK CORP	P304X	A	PC261649	H	P304XDW
REMARKS:REG. GUIDE 1.97							
2RCS*SOV82B	RCS INBD HYD LINE ISOL SOV	TARGET ROCK CORP	P304X	A	PC261649	H	P304XDX
REMARKS:REG. GUIDE 1.97							

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J.O.NO. 1217700
JOB NAME NINE MILE - UNIT 2
JOB CLIENT NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2RHS*AOV16A	RHR A TESTABLE CHECK VALVE	ANCHOR/DARLING	P303H	A	PC306711	H	P303HAE
REMARKS:	REG. GUIDE 1.97						
2RHS*AOV16B	RHR B TESTABLE CHECK VALVE	ANCHOR/DARLING	P303H	A	PC289685	H	P303HAF
REMARKS:	REG. GUIDE 1.97						
2RHS*AOV16C	VCH090-E-1HQ	ANCHOR/DARLING	P303H	A	PC306711	H	P303HAG
REMARKS:	REG. GUIDE 1.97						
2RHS*AOV39A	RHR A SHT DN COOLING CHK VALVE	ANCHOR/DARLING	P303H	A	PC250620	H	P303HAH
REMARKS:	REG. GUIDE 1.97						
2RHS*AOV39B	RHR B SHT DN COOLING CHK VALVE	ANCHOR/DARLING	P303H	A	PC250628	H	P303HAI
REMARKS:	REG. GUIDE 1.97						
2RHS*FT60A	RHS HX DISCHARGE FLOW	ROSEMOUNT	C071H	A	SC175105	H	C071HAV
REMARKS:							
2RHS*FT60B	RHS HX DISCHARGE FLOW	ROSEMOUNT	C071H	A	SC175111	H	C071HAW
REMARKS:							
2RHS*FT63A	RHSA CONTAINMENT SPRAY FLOW	ROSEMOUNT	C071H	A	SC261145	H	C071HAX
REMARKS:	REG. GUIDE 1.97						
2RHS*FT63B	RHSB CONTAINMENT SPRAY FLOW	ROSEMOUNT	C071H	A	SC261145	H	C071HAY
REMARKS:	REG. GUIDE 1.97						
2RHS*FT64A	RHS A SUPP POOL SPRAY POOL	ROSEMOUNT	C071H	A	SC215122	H	C071HAZ
REMARKS:	REG. GUIDE 1.97						
2RHS*FT64B	RHS B SUPP POOL SPRAY POOL	ROSEMOUNT	C071H	A	SC215122	H	C071HBA
REMARKS:	REG. GUIDE 1.97						
2RHS*FV38A	RHR LOOP A TEST RETURN	COPES-VULCAN	C051H	A	SC196114	H	C051HAH
REMARKS:							
2RHS*FV38B	RHR LOOP A TEST RETURN	COPES-VULCAN	C051H	A	SC215122	H	C051HAI
REMARKS:							
2RHS*FV38C	RHR LOOP C TEST RETURN	COPES-VULCAN	C051H	A	SC215122	H	C051HAJ
REMARKS:							
2RHS*HCV53A	RHS LINE A TO 2HSS-REV1	VELAN	P304E	A	PC306711	H	P304EAB
REMARKS:							

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J.O.NO. 1217700
JOB NAME NINE MILE - UNIT 2
JOB CLIENT NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2RHS*HCV53B	RHS LINE B TO 2HSS-REV1	VELAN	P304E	A	PC306712	H	P304EAC
REMARKS:							
2RHS*HCV53C	RHS LINE C TO 2HSS-REV1	VELAN	P304E	A	PC306712	H	P304EAD
REMARKS:							
2RHS*HCV54A	2HSS-REV1 SHUTDWN LINE A	VELAN	P304E	A	PC261643	H	P304EAE
REMARKS:							
2RHS*HCV54B	2HSS-REV1 SHUTDWN LINE B	VELAN	P304E	A	PC261647	H	P304EAF
REMARKS:							
2RHS*LV17A	2RHS*E1A LEVEL CONTROL	COPES-VULCAN	C051H	A	ABN17505	H	C051HAK
REMARKS:							
2RHS*LV17B	2RHS*E1B LEVEL CONTROL	COPES-VULCAN	C051H	A	ABS17510	H	C051HAL
REMARKS:							
2RHS*MOV1A	RHR DHP P1A SUCTION	CLOW CORP.	P304Y	A	SC175103	H	P304YAL
REMARKS:REG. GUIDE 1.97							
2RHS*MOV1B	RHR DHP P1B SUCTION	CLOW CORP.	P304Y	A	SC175111	H	P304YAM
REMARKS:REG. GUIDE 1.97							
2RHS*MOV1C	RHR PHP P1C SUCTION	CLOW CORP	P304Y	A	SC175111	H	P304YAN
REMARKS:REG. GUIDE 1.97							
2RHS*MOV104	RHR HEAD SPRAY ISLN	VELAN	P304R	A	SC289155	H	P304RDB
REMARKS:REG. GUIDE 1.97							
2RHS*MOV112	RHR SHT ON CLG SUCT ISOL	VELAN	P304R	A	PC250624	H	P304RDC
REMARKS:REG. GUIDE 1.97							
2RHS*MOV113	RHR SHT DN CLG SUCT ISOL	VELAN	P304R	A	SC240142	H	P304RDD
REMARKS:REG. GUIDE 1.97							
2RHS*MOV115	RHR SERVICE WATER CROSS TIE	VELAN	P304R	A	ABS17510	H	P304RDE
REMARKS:							
2RHS*MOV116	RHR SERVICE WTR CROSS TIE	VELAN	P304R	A	ABS17510	H	P304RDF
REMARKS:							
2RHS*MOV12A	RHR H.E. A SHELL-SIDE OUTLET	CLOW CORP	P304Y	A	ABN17505	H	P304YAU
REMARKS:							

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J.O.NO. 1217700
JOB NAME NINE MILE - UNIT 2
JOB CLIENT NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2RHS*MOV12B	RHR H.E. B SHELL-SIDE OUTLET	CLOW CORP	P304Y	A	ABS17510	H	P304YAV
REMARKS:							
2RHS*MOV142	RHR DISCHARGE TO RADWASTE	VELAN	P304R	A	ABS17509	H	P304RDG
REMARKS:							
2RHS*MOV149	RHR DISCHARGE TO RADWASTE	VELAN	P304R	A	ABS17509	H	P304RDH
REMARKS:							
2RHS*MOV15A	RHR A REAC CNTNMT SPRAY	VELAN	P304R	A	SC289155	H	P304RBZ
REMARKS:	REG. GUIDE 1.97						
2RHS*MOV15B	RHR B REAC CNTNMT SPRAY	VELAN	P304R	A	SC289155	H	P304RCA
REMARKS:	REG. GUIDE 1.97						
2RHS*MOV2A	RHR A SHT DN COOLING SUCT	CLOW CORP	P304Y	A	ABN17504	H	P304YAO
REMARKS:							
2RHS*MOV2B	RHR B SHT DN COOLING SUCT	CLOW CORP	P304Y	A	SC175111	H	P304YAP
REMARKS:							
2RHS*MOV22A	RHR A STM LINE ISOL	VELAN	P304R	A	SC215125	H	P304RCB
REMARKS:							
2RHS*MOV22B	RHR B STM LINE ISOL	VELAN	P304R	A	SC215129	H	P304RCD
REMARKS:							
2RHS*MOV23A	RHR A STM LINE ISOL	VELAN	P304R	A	SC175103	H	P304RCE
REMARKS:							
2RHS*MOV23B	RHR B STM LINE ISOL	VELAN	P304R	A	SC175111	H	P304RCF
REMARKS:							
2RHS*MOV24A	LPCI INLET A	VELAN	P304R	A	SC289155	H	P304RCG
REMARKS:	REG. GUIDE 1.97						
2RHS*MOV24B	LPCI INLET B	VELAN	P304R	A	SC289155	H	P304RCH
REMARKS:	REG. GUIDE 1.97						
2RHS*MOV24C	LPCI INLET C	VELAN	P304R	A	SC289155	H	P304RCI
REMARKS:							
2RHS*MOV25A	RHR A REAC CNTNMT SPRAY	VELAN	P304R	A	SC289155	H	P304RCJ
REMARKS:	REG. GUIDE 1.97						

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JOB NAME NINE MILE - UNIT 2
JOB CLIENT NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2RHS*MOV25B	RHR B REAC CNTMNT SPRAY	VELAN	P304R	A	SC289155	H	P304RCK
REMARKS:	REG. GUIDE 1.97						
2RHS*MOV26A	RHR H.E. A VENT TO SUPP POOL	VELAN	P304R	A	ABN19615	H	P304RCL
REMARKS:	REG. GUIDE 1.97						
2RHS*MOV26B	RHR H.E. B VENT TO SUPP POOL	VELAN	P304R	A	ABS19620	H	P304RCM
REMARKS:	REG. GUIDE 1.97						
2RHS*MOV27A	RHR H.E. A VENT TO SUPP POOL	VELAN	P304R	A	ABN19615	H	P304RCN
REMARKS:	REG. GUIDE 1.97						
2RHS*MOV27B	RHR H.E. B VENT TO SUPP POOL	VELAN	P304R	A	ABS19620	H	P304RCO
REMARKS:	REG. GUIDE 1.97						
2RHS*MOV30A	RHR A RTN TO SUPP POOL ISOL	CLOW CORP	P304Y	A	SC196113	H	P304YAW
REMARKS:	REG. GUIDE 1.97						
2RHS*MOV30B	RHR B RTN TO SUPP POOL ISOL	CLOW CORP	P304Y	A	SC196113	H	P304YAX
REMARKS:	REG. GUIDE 1.97						
2RHS*MOV32A	RHR H.E. A FLOW TO RCIC	VELAN	P304R	A	ABN17505	H	P304RCP
REMARKS:							
2RHS*MOV32B	RHR H.E. B FLOW TO RCIC	VELAN	P304R	A	ABS17510	H	P304RCQ
REMARKS:							
2RHS*MOV33A	RHR A SUPP POOL SPRAY	VELAN	P304R	A	SC215122	H	P304RCR
REMARKS:	REG. GUIDE 1.97						
2RHS*MOV33B	RHR B SUPP POOL SPRAY	VELAN	P304R	A	SC215122	H	P304RCS
REMARKS:	REG. GUIDE 1.97						
2RHS*MOV37A	RHR H.E. A FLOW TO SUPP POOL	VELAN	P304R	A	ABN17505	H	P304RCT
REMARKS:							
2RHS*MOV37B	RHR H.E. B FLOW TO SUPP POOL	VELAN	P304R	A	ABS17510	H	P304RCU
REMARKS:							
2RHS*MOV4A	RHR A MIN FLOW BYPASS	VELAN	P304R	A	SC196114	H	P304RBH
REMARKS:							
2RHS*MOV4B	RHR B MIN FLOW BYPASS	VELAN	P304R	A	ABS17509	H	P304RBX
REMARKS:							

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2RHS*MOV4C	RHR C MIN FLOW BYPASS	VELAN	P304R	A	ABS17508	H	P304RBY
REMARKS:							
2RHS*MOV40A	RHR A SHT DN CLG RETURN	VELAN	P304R	A	SC240140	H	P304RCV
REMARKS:	REG. GUIDE 1.97						
2RHS*MOV40B	RHR B SHT DN CLG RETURN	VELAN	P304R	A	SC240143	H	P304RCW
REMARKS:	REG. GUIDE 1.97						
2RHS*MOV67A	RHR A SHT DNCLG CV BYPASS	VELAN	P304R	A	PC250620	H	P304RCX
REMARKS:	REG. GUIDE 1.97						
2RHS*MOV67B	RHR B SHT DN CLG CV BYPASS	VELAN	P304R	A	PC250628	H	P304RCY
REMARKS:	REG. GUIDE 1.97						
2RHS*MOV8A	RHR H.E. E1A BYPASS	CLOW CORP	P304Y	A	ABN17505	H	P304YAQ
REMARKS:							
2RHS*MOV8B	RHR H.E. E1B BYPASS	CLOW CORP	P304Y	A	ABS17509	H	P304YAR
REMARKS:							
2RHS*MOV80A	GLOBE VALVE	VELAN	P304R	A	SC215125	H	P304RCZ
REMARKS:							
2RHS*MOV80B	GLOBE VALVE	VELAN	P304R	A	SC215129	H	P304RDA
REMARKS:							
2RHS*MOV9A	RHR H.E. A SHELL SIDE INLET	CLOW CORP	P304Y	A	ABN19615	H	P304YAS
REMARKS:							
2RHS*MOV9B	RHR H.E. B SHELL-SIDE INLET	CLOW CORP	P304Y	A	ABS19620	H	P304YAT
REMARKS:							
2RHS*M2	RHR SYS PRESSURE MOTOR	GOULD PUMPS INC.	P222X	A	ABS17508	H	P222XAE
REMARKS:							
2RHS*PT99A	RHS A STEAM SUPPLY ROOM ICS	ROSEMOUNT	C071M	A	SC175105	H	C071MBB
REMARKS:							
2RHS*PT99B	RHS B STEAM SUPPLY ROOM ICS	ROSEMOUNT	C071M	A	SC215122	H	C071MBC
REMARKS:							
2RHS*PV21A	2RHS*E1A MSS SUPPLY PRESS	COPES-VULCAN	C051M	A	SC175103	H	C051MAM
REMARKS:							

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JOB CLIENT NIAGARA MOHAWK

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2RHS*PV21B	2RHS*E1B HSS SUPPLY PRESS	COPES-VULCAN	C051N	A	SC175111	H	C051NAN
REMARKS:							
2RHS*SOV120	SAMPLING SYSTEM TEST RETURN	TARGET ROCK CORP	P304X	A	SC196113	H	P304XEM
REMARKS:							
2RHS*SOV121	SOLENOID OPERATED GLOBE VALVE	TARGET ROCK CORP	P304X	A	SC196113	H	P304XEN
REMARKS:							
2RHS*SOV126	2RHS*E4B SWP CROSS-TIE DRN	TARGET ROCK CORP	P304X	A	ABS17510	H	P304XEO
REMARKS:							
2RHS*SOV35A	RHR A REAC SAMPLING SYS ISOL V	TARGET ROCK CORP	P304X	A	ABN17505	H	P304XEA
REMARKS:							
2RHS*SOV35B	RHR B REAC SAMPLING SYS ISOL V	TARGET ROCK CORP	P304X	A	ABS17510	H	P304XEB
REMARKS:							
2RHS*SOV36A	RHR A REAC SAMPLING SYS ISOL V	TARGET ROCK CORP	P304X	A	ABN17505	H	P304XEC
REMARKS:							
2RHS*SOV36B	RHR B REAC SAMPLING SYS ISOL V	TARGET ROCK CORP	P304X	A	ABS17510	H	P304XED
REMARKS:							
2RHS*SOV70A	STEAM LINE DRAIN	TARGET ROCK CORP	P304X	A	SC175103	H	P304XEE
REMARKS:							
2RHS*SOV70B	STEAM LINE DRAIN	TARGET ROCK CORP	P304X	A	SC175111	H	P304XEF
REMARKS:							
2RHS*SOV71A	STEAM LINE DRAIN	TARGET ROCK CORP	P304X	A	SC175103	H	P304XEG
REMARKS:							
2RHS*SOV71B	STEAM LINE DRAIN	TARGET ROCK CORP	P304X	A	SC175111	H	P304XEH
REMARKS:							
2RHS*SOV72A	SOLENOID VALVE	TARGET ROCK CORP	P304X	A	SC175103	H	P304XEI
REMARKS:							
2RHS*SOV72B	SOLENOID VALVE	TARGET ROCK CORP	P304X	A	SC175111	H	P304XEJ
REMARKS:							
2RHS*SOV73A	SOLENOID VALVE	TARGET ROCK CORP	P304X	A	SC175103	H	P304XEK
REMARKS:							

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J.O.NO. 1217700
JOB NAME NINE MILE - UNIT 2
JOB CLIENT NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2RHS*SOV73B	SOLENOID VALVE	TARGET ROCK CORP	P304X	A	SC175111	H	P304XEL
REMARKS:							

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JOB NAME NINE MILE - UNIT 2
JOB CLIENT NIAGARA MOHAWK

EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2RHS*RAY1A	REAC BLDG DW H RNG RADN	KAMAN INSTM	P281F	B	SC261145	H	P281FAK
REMARKS:							
2RHS*RAY1B	REAC BLDG DW H RNG RADN	KAMAN INSTM	P281F	B	SC261145	H	P281FAL
REMARKS:							
2RHS*RAY1C	REAC BLDG DW H RNG RADN	KAMAN INSTM	P281F	B	SC261145	H	P281FAM
REMARKS:							
2RHS*RAY1D	REAC BLDG DW H RNG RADN	KAMAN INSTM	P281F	B	SC261145	H	P281FAN
REMARKS:							
2RHS*RE1A	REAC BLDG DW HATCH RADN	KAMAN INSTM	P281F	B	PC261644	H	P281FAO
REMARKS:REG. GUIDE 1.97							
2RHS*RE1B	REAC BLDG DW HATCH RADN	KAMAN INSTM	P281F	B	PC261649	H	P281FAP
REMARKS:REG. GUIDE 1.97							
2RHS*RE1C	REAC BLDG DW H RNG RADN	KAMAN INSTM	P281F	B	PC261638	H	P281FAQ
REMARKS:REG. GUIDE 1.97							
2RHS*RE1D	REAC BLDG DW H RNG RADN	KAMAN INSTM	P281F	B	PC261638	H	P281FAR
REMARKS:REG. GUIDE 1.97							

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2RSS*FT106	RCIC PMP DISCH FLOW	ROSEMOUNT	C071M	A	SC175105	H	C071MBD
REMARKS:							
2RSS*LT101	REACTOR VESSEL LEVEL	ROSEMOUNT	C071M	A	SC261145	H	C071MBE
REMARKS:							
2RSS*LT105	SUPPR POOL WTR TEMP	ROSEMOUNT	C071M	A	SC175105	H	C071MBF
REMARKS:							
2RSS*LT115	REACTOR VESSEL LEVEL	ROSEMOUNT	C071M	A	SC261145	H	C071MBG
REMARKS:							
2RSS*PT102	REACTOR VESSEL LEVEL	ROSEMOUNT	C071M	A	SC261145	H	C071MBH
REMARKS:							

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2SAS*HCV160	SERVICE AIR CNTMT ISOL V	VELAN	P304H	A	SC240135	H	P304HAE
REMARKS:	REG. GUIDE 1.97						
2SAS*HCV161	SERVICE AIR CNTMT ISOL V	VELAN	P304H	A	SC289155	H	P304HAF
REMARKS:	REG. GUIDE 1.97						
2SAS*HCV162	SERVICE AIR CNTMT ISOL V	VELAN	P304H	A	PC240603	H	P304HAG
REMARKS:	REG. GUIDE 1.97						
2SAS*HCV163	SERVICE AIR CNTMT ISOL V	VELAN	P304H	A	PC289681	H	P304HAH
REMARKS:	REG. GUIDE 1.97						

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2SCV*PNL101A	GTS MISC 120/240V PNL	BROWN BOVERI	E014T	A	ABN24033	H	E014TAI
REMARKS:							
2SCV*PNL301B	GTS MISC 120/240 PNL	BROWN BOVERI	E014T	A	ABS24036	H	E014TAJ
REMARKS:							
2SCV*XD101A	DIST XFMR 600V-120/240V	SQUARE "D"	E011T	A	ABN24033	H	E011TAB
REMARKS:							
2SCV*XD301B	DIST XFMR 600V-120/240V	SQUARE "D"	E011T	A	ABS24036	H	E011TAA
REMARKS:							

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EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2SFC*AOV153	FILTER HDR INL ISOL VCH	POSI-SEAL INTER.	P304D	A	SC289162	H	P304DAN
REMARKS:							
2SFC*AOV154	FILTER HDR INL ISOL VCH	POSI-SEAL INTER.	P304D	A	SC289162	H	P304DAO
REMARKS:							
2SFC*AOV19A	2SFC-FLT1A OUTLET	POSI-SEAL INTER.	P304D	A	SC328193	H	P304DAJ
REMARKS:							
2SFC*AOV19B	2SFC-FLT1B OUTLET	POSI-SEAL INTER.	P304D	A	SC306176	H	P304DAK
REMARKS:							
2SFC*AOV33A	SKIMMER SURGE TANK LEVEL	POSI-SEAL INTER.	P304D	A	SC328199	H	P304DAL
REMARKS:							
2SFC*AOV33B	SKIMMER SURGE TANK LEVEL	POSI-SEAL INTER.	P304D	A	SC328199	H	P304DAM
REMARKS:							
2SFC*FT36A	SF POOL CLG SYS FLOW L	ROSEMOUNT	C071M	A	SC215122	H	C071MBM
REMARKS:							
2SFC*FT36B	SF POOL CLG SYS FLOW L	ROSEMOUNT	C071M	A	SC215122	H	C071MBN
REMARKS:							
2SFC*FT58A	SFC PMP DISCH FLOW	ROSEMOUNT	C071M	A	SC289162	H	C071MBO
REMARKS:							
2SFC*FT58B	SFC PMP DISCH FLOW	ROSEMOUNT	C071M	A	SC289161	H	C071MBP
REMARKS:							
2SFC*HV114	FUEL XFR CHAN GATE A DR V	ATTWOOD*MORRILL	P304K	A	SC306182	H	P304KAF
REMARKS:							
2SFC*HV148	CASK GATE DRAIN VALVE	ATTWOOD*MORRILL	P304K	A	SC306182	H	P304KAE
REMARKS:							
2SFC*HV149	GATE DRAINS HDR ISOL VLV	ATTWOOD*MORRILL	P304K	A	SC306182	H	P304KAG
REMARKS:							
2SFC*HV17A	2SFC-F1A BYPASS	POSI-SEAL INTER.	P304D	A	SC289162	H	P304DAR
REMARKS:							
2SFC*HV17B	2SFC-F1B BYPASS	POSI-SEAL INTER.	P304D	A	SC289161	H	P304DAS
REMARKS:							

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EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2SFC*HV18A	2SFC-F1A INLET	POSI-SEAL INTER.	P304D	A	SC289162	H	P304DAT
REMARKS:							
2SFC*HV18B	2SFC-F1B INLET	POSI-SEAL INTER.	P304D	A	SC289162	H	P304DAU
REMARKS:							
2SFC*HV35A	2SFC-TK1A INLET V	POSI-SEAL INTER.	P304D	A	SC328197	H	P304DAV
REMARKS:							
2SFC*HV35B	2SFC-TK1B INLET V	POSI-SEAL INTER.	P304D	A	SC328221	H	P304DAW
REMARKS:							
2SFC*HV37A	2SFC-HT EXCHGR DISCH V	POSI-SEAL INTER.	P304D	A	SC215122	H	P304DAX
REMARKS:							
2SFC*HV37B	2SFC-HT EXCHGR DISCH V	POSI-SEAL INTER.	P304D	A	SC215122	H	P0304DAY
REMARKS:							
2SFC*HV54A	SKIMMER SURGE TANK OUTLET	POSI-SEAL INTER.	P304D	A	SC328193	H	P0304DAZ
REMARKS:							
2SFC*HV54B	SKIMMER SURGE TANK OUTLET	POSI-SEAL INTER.	P304D	A	SC328221	H	P304DBA
REMARKS:							
2SFC*HV6A	SF POOL CLG WTR XCONN	POSI-SEAL INTER.	P304D	A	SC289162	H	P304DAP
REMARKS:							
2SFC*HV6B	SF POOL CLG WTR XCONN	POSI-SEAL INTER.	P304D	A	SC289161	H	P304DAQ
REMARKS:							
2SFC*LS33A	SKIMMER SURGE TANK LEVEL	MAGNETROL	C021L	A	SC328193	H	C021LAI
REMARKS:							
2SFC*LS33B	SKIMMER SURGE TANK LEVEL	MAGNETROL	C021L	A	SC328187	H	C021LAJ
REMARKS:							
2SFC*LS33C	SKIMMER SURGE TANK LEVEL	MAGNETROL	C021L	A	SC328193	H	C021LAK
REMARKS:							
2SFC*LS33D	SKIMMER SURGE TANK LEVEL	MAGNETROL	C021L	A	SC328187	H	C021LAL
REMARKS:							
2SFC*LS34A	SFC SKIMMER SURGE TK HI LVL	MAGNETROL	C021L	A	SC328193	H	C021LAM
REMARKS:							

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2SFC*LS34B	SFC SKIMMER SURGE TK HI LVL	MAGNETROL	C021L	A	SC328187	H	C021LAN
REMARKS:							
2SFC*LS55A	SF POOL HTR LVL LOW	MAGNETROL	C021L	A	SC353202	H	C021LAO
REMARKS:							
2SFC*LS55B	SF POOL HTR LVL LOW	MAGNETROL	C021L	A	SC353202	H	C021LAP
REMARKS:							
2SFC*LT32A	SF POOL SURGE TANK WATER LVL	ROSEMOUNT	C071M	A	SC328197	H	C071MBQ
REMARKS:							
2SFC*LT32B	SF POOL SURGE TANK WATER LVL	ROSEMOUNT	C071M	A	SC328187	H	C071MBR
REMARKS:							
2SFC*M1A	FUEL POOL CMC MOTOR	GOULD PUMPS INC.	P222X	A	SC289162	H	P222XAA
REMARKS:							
2SFC*M1B	FUEL POOL CMC MOTOR	GOULD PUMPS INC.	P222X	A	SC289161	H	P222XAB
REMARKS:							
2SFC*PT3A	SF POOL CIRC PP A SUCT PRESS	ROSEMOUNT	C071M	A	SC289162	H	C071MBS
REMARKS:							
2SFC*PT3B	SF POOL CIRC PP B SUCT PRESS	ROSEMOUNT	C071M	A	SC289161	H	C071MBT
REMARKS:							
2SFC*PT30A	SF POOL CIRC PMP DISCH PRESS	ROSEMOUNT	C071M	A	SC289162	H	C071MBU
REMARKS:							
2SFC*PT30B	SF POOL CIRC PMP DISCH PRESS	ROSEMOUNT	C071M	A	SC261145	H	C071MBV
REMARKS:							
2SFC*TE31A	SF POOL SURGE TANK TEMP OUTL	PYCO	C041D	A	SC328193	H	C041DCQ
REMARKS:							
2SFC*TE31B	SF POOL SURGE TANK TEMP OUTL	PYCO	C041D	A	SC328221	H	C041DCR
REMARKS:							
2SFC*TE8A	SF POOL HT EXCH OUT TEMP	PYCO	C041D	A	SC215122	H	C041DCO
REMARKS:							
2SFC*TE8B	SF POOL HT EXCH OUT TEMP	PYCO	C041D	A	SC215122	H	C041DCP
REMARKS:							

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2SLS*HCV111	STBY LIQ TEST TK VALVE	VELAN	P304L	A	SC289155	H	P304LAA
REMARKS:							
2SLS*MOV1A	SEALED GLOBE VALVE	VELAN	P304S	A	SC289155	H	P304SAW
REMARKS:							
2SLS*MOV1B	SEALED GLOBE VALVE	VELAN	P304S	A	SC289155	H	P304SAX
REMARKS:							
2SLS*MOV5A	STOP CHECK	VELAN	P304S	A	SC289155	H	P304SAY
REMARKS:REG. GUIDE 1.97							
2SLS*MOV5B	STOP CHECK	VELAN	P304S	A	SC289155	H	P304SAZ
REMARKS:REG. GUIDE 1.97							

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2SVV*NBE220	2HSS*PSV120	T.E.C.	C071H	A	PC289682	H	C071HAA
REMARKS:REG. GUIDE 1.97							
2SVV*NBE221	2HSS*PSV121	T.E.C.	C071H	A	PC289679	H	C071HAB
REMARKS:REG. GUIDE 1.97							
2SVV*NBE222	2HSS*PSV122	T.E.C.	C071H	A	PC289680	H	C071HAC
REMARKS:REG. GUIDE 1.97							
2SVV*NBE223	2HSS*PSV123	T.E.C.	C071H	A	PC289680	H	C071HAD
REMARKS:REG. GUIDE 1.97							
2SVV*NBE224	2HSS*PSV124	T.E.C.	C071H	A	PC289680	H	C071HAE
REMARKS:REG. GUIDE 1.97							
2SVV*NBE225	2HSS*PSV125	T.E.C.	C071H	A	PC289680	H	C071HAF
REMARKS:REG. GUIDE 1.97							
2SVV*NBE226	2HSS*PSV126	T.E.C.	C071H	A	PC289680	H	C071HAG
REMARKS:REG. GUIDE 1.97							
2SVV*NBE227	2HSS*PSV127	T.E.C.	C071H	A	PC289680	H	C071HAH
REMARKS:REG. GUIDE 1.97							
2SVV*NBE228	2HSS*PSV128	T.E.C.	C071H	A	PC289680	H	C071HAI
REMARKS:REG. GUIDE 1.97							
2SVV*NBE229	2HSS*PSV129	T.E.C.	C071H	A	PC289680	H	C071HAJ
REMARKS:REG. GUIDE 1.97							
2SVV*NBE230	2HSS*PSV130	T.E.C.	C071H	A	PC289680	H	C071HAK
REMARKS:REG. GUIDE 1.97							
2SVV*NBE231	2HSS*PSV131	T.E.C.	C071H	A	PC289680	H	C071HAL
REMARKS:REG. GUIDE 1.97							
2SVV*NBE232	2HSS*PSV132	T.E.C.	C071H	A	PC289680	H	C071HAM
REMARKS:REG. GUIDE 1.97							
2SVV*NBE233	2HSS*PSV133	T.E.C.	C071H	A	PC289680	H	C071HAN
REMARKS:REG. GUIDE 1.97							
2SVV*NBE234	2HSS*PSV134	T.E.C.	C071H	A	PC289686	H	C071HAO
REMARKS:REG. GUIDE 1.97							

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2SVV*NBE235	2MSS*PSV135	T.E.C.	C071W	A	PC289679	H	C071WAP
REMARKS:	REG. GUIDE 1.97						
2SVV*NBE236	2MSS*PSV136	T.E.C.	C071W	A	PC289680	H	C071WAQ
REMARKS:	REG. GUIDE 1.97						
2SVV*NBE237	2MSS*PSV137	T.E.C.	C071W	A	PC289680	H	C071WAR
REMARKS:	REG. GUIDE 1.97						
2SVV*NBY220	2MSS*PSV120	T.E.C.	C071W	A	SC240135	H	C071WBA
REMARKS:							
2SVV*NBY221	2MSS*PSV121	T.E.C.	C071W	A	SC240135	H	C071WBB
REMARKS:							
2SVV*NBY222	2MSS*PSV122	T.E.C.	C071W	A	SC240135	H	C071WBC
REMARKS:							
2SVV*NBY223	2MSS*PSV123	T.E.C.	C071W	A	SC240135	H	C071WBD
REMARKS:							
2SVV*NBY224	2MSS*PSV124	T.E.C.	C071W	A	SC240135	H	C071WBE
REMARKS:							
2SVV*NBY225	2MSS*PSV125	T.E.C.	C071W	A	SC240135	H	C071WBF
REMARKS:							
2SVV*NBY226	2MSS*PSV126	T.E.C.	C071W	A	SC240135	H	C071WBG
REMARKS:							
2SVV*NBY227	2MSS*PSV127	T.E.C.	C071W	A	SC240135	H	C071WBH
REMARKS:							
2SVV*NBY228	2MSS*PSV128	T.E.C.	C071W	A	SC240135	H	C071WBI
REMARKS:							
2SVV*NBY229	2MSS*PSV129	T.E.C.	C071W	A	SC240135	H	C071WBJ
REMARKS:							
2SVV*NBY230	2MSS*PSV130	T.E.C.	C071W	A	SC240135	H	C071WBK
REMARKS:							
2SVV*NBY231	2MSS*PSV131	T.E.C.	C071W	A	SC240135	H	C071WBL
REMARKS:							

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EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2SVV*NBY232	2MSS*PSV132	T.E.C.	C071W	A	SC240135	H	C071WBM
REMARKS:							
2SVV*NBY233	2MSS*PSV133	T.E.C.	C071W	A	SC240135	H	C071WBN
REMARKS:							
2SVV*NBY234	2MSS*PSV134	T.E.C.	C071W	A	SC240135	H	C071WBO
REMARKS:							
2SVV*NBY235	2MSS*PSV135	T.E.C.	C071W	A	SC240135	H	C071WBP
REMARKS:							
2SVV*NBY236	2MSS*PSV136	T.E.C.	C071W	A	SC240135	H	C071WBQ
REMARKS:							
2SVV*NBY237	2MSS*PSV137	T.E.C.	C071W	A	SC240135	H	C071WBR
REMARKS:							

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2SWP*AOV20A	SWP TO RHS*P1A SL CLR	ATTWOOD&MORRILL	P304K	A	ABN17504	H	P304KAH
REMARKS:							
2SWP*AOV20B	SWP TO RHS*P1A SL CLR	ATTWOOD&MORRILL	P304K	A	ABS17509	H	P304KAI
REMARKS:							
2SWP*AOV22A	SWP FROM RHS*P1A SL CLR	ATTWOOD&MORRILL	P304K	A	ABN17504	H	P304KAJ
REMARKS:							
2SWP*AOV22B	SWP FROM RHS*P1B SL CLR	ATTWOOD&MORRILL	P304K	A	ABS17509	H	P304KAK
REMARKS:							
2SWP*AOV97A	SWP FR CLG COIL 2HVR*UC413A	ATTWOOD&MORRILL	P304K	A	SC289155	H	P304KAL
REMARKS:							
2SWP*AOV97B	SWP FR CLG COIL 2HVR*UC413B	ATTWOOD&MORRILL	P304K	A	SC289155	H	P304KAM
REMARKS:							
2SWP*MOV15A	SVCE WTR TO 2HVR*UC403A	VELAN	P304R	A	SC175105	H	P304RDI
REMARKS:							
2SWP*MOV15B	SVCE WTR TO 2HVR*UC403B	VELAN	P304R	A	SC196116	H	P304RDJ
REMARKS:							
2SWP*MOV17A	GATE VALVE	VELAN	P304R	A	SC196113	H	P304RDK
REMARKS:							
2SWP*MOV17B	GATE VALVE	VELAN	P304R	A	SC175105	H	P304RDL
REMARKS:							
2SWP*MOV18A	GATE VALVE	VELAN	P304R	A	SC196113	H	P304RDM
REMARKS:							
2SWP*MOV18B	GATE VALVE	VELAN	P304R	A	SC196116	H	P304RDN
REMARKS:							
2SWP*MOV19A	SWP TO CCP HT EXCH ISOL V	CLOW CORP	P304Y	B	ABN21523	H	P304YAY
REMARKS:							
2SWP*MOV19B	SWP TO CCP HT EXCH ISOL V	CLOW CORP	P304Y	B	ABN21523	H	P304YAZ
REMARKS:							
2SWP*MOV21A	GATE VALVE	VELAN	P304R	A	SC328221	H	P304RDO
REMARKS:							

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EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2SWP*MOV21B	GATE VALVE	VELAN	P304R	A	SC320197	H	P304RDP
REMARKS:							
2SWP*MOV33A	BUTTERFLY OR TRICENTRIC VALVE	CLOW CORP	P304Y	A	ABN17505	H	P304YBA
REMARKS:							
2SWP*MOV33B	BUTTERFLY OR TRICENTRIC VALVE	CLOW CORP	P304Y	A	ABS17510	H	P304YBB
REMARKS:							
2SWP*MOV38A	SWP TO RBCLCW SYS	VELAN	P304R	A	SC261145	H	P304RDQ
REMARKS:							
2SWP*MOV38B	SWP TO RBCLCW SYS	VELAN	P304R	A	SC261145	H	P304RDR
REMARKS:							
2SWP*MOV39A	SWP TO RBCLCW SYS	VELAN	P304R	A	SC261145	H	P304RDS
REMARKS:							
2SWP*MOV39B	SWP TO RBCLCW SYS	VELAN	P304R	A	SC261145	H	P304RDT
REMARKS:							
2SWP*MOV90A	BUTTERFLY OR TRICENTRIC VALVE	CLOW CORP	P304Y	A	ABN17505	H	P304YBC
REMARKS:							
2SWP*MOV90B	BUTTERFLY OR TRICENTRIC VALVE	CLOW CORP	P304Y	A	ABS17510	H	P304YBD
REMARKS:							
2SWP*PT140A	SWP TO CCP HT EXCHS PRESS	ROSEMOUNT	C071M	A	ABN17503	H	C071MBW
REMARKS:							
2SWP*PT140B	SWP TO CCP HT EXCHS PRESS	ROSEMOUNT	C071M	A	ABN17503	H	C071MSX
REMARKS:							

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2VBS*PNLA105	MSLIV DIST PNL(G/H)	BROWN BOVERI	E014T	A	ABN24033	H	E014TAM
REMARKS:							
2VBS*PNLA106	MSLIV DIST PNL	BROWN BOVERI	E014T	A	ABS24036	H	E014TAO
REMARKS:							
2VBS*PNLB105	MSLIV DIST PNL	BROWN BOVERI	E014T	A	ABN24033	H	E014TAN
REMARKS:							
2VBS*PNLB106	MSLIV DIST PNL(Y/H)	BROWN BOVERI	E014T	A	ABS24036	H	E014TAP
REMARKS:							

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EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2WCS*MOV101	RWCU REAC VESSEL DRN	VELAN	P304R	A	PC261647	H	P304RDU
REMARKS:							
2WCS*MOV102	INSIDE CONT	VELAN	P304R	A	PC240606	H	P304RDV
REMARKS:	REG. GUIDE 1.97						
2WCS*MOV103	RWCU INL ISOL V	VELAN	P304R	A	PC240606	H	P304RDW
REMARKS:							
2WCS*MOV104	INSIDE CONT	VELAN	P304R	A	PC240608	H	P304RDX
REMARKS:							
2WCS*MOV105	RWCU INL FROM RECIRC A	VELAN	P304R	A	PC240606	H	P304RDY
REMARKS:							
2WCS*MOV112	OUTSIDE CONT	VELAN	P304R	A	SC240142	H	P304RDZ
REMARKS:	REG. GUIDE 1.97						
2WCS*MOV200	RWCU RETURN ISOL	VELAN	P304R	A	HST26146	H	P304REA
REMARKS:	REG. GUIDE 1.97						

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2NAF-50	SIS WIRE 10AWG 105 STRANDS		E024B	A	ALL	H	E024BAT
REMARKS:							
2NAF-51	SIS WIRE 12AWG 65 STRANDS		E024B	A	ALL	H	E024BAS
REMARKS:							
2NAF-52	SIS WIRE 14AWG 41 STRAND	ROCKBESTOS	E024B	A	ALL	H	E024BAO
REMARKS:							
2NJM-01	STR CU CA 1 TWPR WITH JKT	ROCKBESTOS CO.	E024B	A	ALL	H	E024BBF
REMARKS:	SEE SCEW SHEET FOR ZONE RESTRICTIONS *						
2NJM-02	STR CU CA 3 TWPR WITH JKT	ROCKBESTOS CO.	E024B	A	ALL	H	E024BBG
REMARKS:	SEE SCEW SHEET FOR ZONE RESTRICTIONS *						
2NJM-03	STR CU CA 7 TWPR WITH JKT	ROCKBESTOS CO.	E024B	A	ALL	H	E024BBH
REMARKS:	SEE SCEW SHEET FOR ZONE RESTRICTIONS *						
2NJM-04	STR CU CA EPR IN H JKT	KERITE	E024A	A	ALL	H	E024AAA
REMARKS:	SEE SCEW SHEET FOR ZONE RESTRICTIONS *						
2NJM-05	STR CU CA EPR INS H JKT	KERITE	E024A	A	ALL	H	E024AAB
REMARKS:	SEE SCEW SHEET FOR ZONE RESTRICTIONS *						
2NJM-06	STR CU CA THERMO INS JKT	KERITE	E024A	A	ALL	H	E024AAC
REMARKS:	SEE SCEW SHEET FOR ZONE RESTRICTIONS *						
2NJM-08	THERM INS H JKT 10AWG	OKONITE	E023C	A	ALL	H	E023CAA
REMARKS:	SEE SCEW SHEET FOR ZONE RESTRICTIONS *						
2NJM-10	STR CU CA EPR INS H JKT	KERITE	E024A	A	ALL	H	E024AAD
REMARKS:	SEE SCEW SHEET FOR ZONE RESTRICTIONS						
2NJM-12	STR CU CA THRM INS JKT 8AWG	OKONITE	E023C	A	ALL	H	E023CAB
REMARKS:	SEE SCEW SHEET FOR ZONE RESTRICTIONS *						
2NJM-13	STR CU CA THERMO INS JKT	KERITE	E024A	A	ALL	H	E024AAE
REMARKS:	SEE SCEW SHEET FOR ZONE RESTRICTIONS *						
2NJM-14	STR CU CA THERMO INS JKT	KERITE	E024A	A	ALL	H	E024AAF
REMARKS:	SEE SCEW SHEET FOR ZONE RESTRICTIONS						
2NJM-15	STR CU CA THRM INS JKT 250KCM	OKONITE	E023C	A	ALL	H	E023CAP
REMARKS:	SEE SCEW SHEET FOR ZONE RESTRICTIONS *						

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EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2NJM-16	STR CU CA THM INS JKT 500 KCM	OKONITE	E023C	A	ALL	H	E023CAN
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJM-17	STR CU THERM INS JKT 750KCM	OKONITE	E023C	A	ALL	H	E023CAM
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJM-18	STR CU THERM INS JKT 2AWG	OKONITE	E023C	A	ALL	H	E023CAT
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJM-25	STR CU CA QD N10 GND JKT 2AWG	OKONITE	E023C	A	ALL	H	E023CAE
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJM-28	STR CU CA QD 2N3 GND JKT 2/0	OKONITE	E023C	A	ALL	H	E023CAG
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJM-30	STR CU CA QD 2N3 GND JKT 3/0	OKONITE	E023C	A	ALL	H	E023CAH
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJM-31	STR CU CA QD 2N3 GND JKT 4/0	OKONITE	E023C	A	ALL	H	E023CAI
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJM-33	STR CU CA N 1/0 GND JKT 250KCM	OKONITE	E023C	A	ALL	H	E023CAJ
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJM-34	STR CU CA QD 2N3 GND JKT 1/0	OKONITE	E023C	A	ALL	H	E023CAF
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJM-36	STR CU THERM INS HJKT 4AWG	OKONITE	E023C	A	ALL	H	E023CAU
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJM-37	STR CU THERM INS OA JKT 6AWG	OKONITE	E023C	A	ALL	H	E023CAV
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJM-40	STR CU CA QD N10 GND JKT 6AWG	OKONITE	E023C	A	ALL	H	E023CAC
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJM-41	STR CU CA QD N10 GND JKT 4AWG	OKONITE	E023C	A	ALL	H	E023CAD
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJM-44	STR CU THERM INS OA JKT 350KCM	OKONITE	E023C	A	ALL	H	E023CAO
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJM-45	STR CU QD 350CM JKT 1/0 GND	OKONITE	E023C	A	ALL	H	E023CAK
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					

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J.O.NO. 1217700
JOB NAME NINE MILE - UNIT 2
JOB CLIENT NIAGARA MOHAWK

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2NJN-46	STR CU CA QD 500KCM JKT 1/0GND	OKONITE	E023C	A	ALL	H	E023CAL
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJN-47	STR CU THERM INS OA JKT 2/0	OKONITE	E023C	A	ALL	H	E023CAR
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJN-48	STR CU THERM INS OA JKT 1/0	OKONITE	E023C	A	ALL	H	E023CAS
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJN-49	STR CU THERM INS OA JKT 4/0	OKONITE	E023C	A	ALL	H	E023CAQ
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJN-50	CU CA THISTED W/OVERALL SHLD	ROCKBESTOS CO.	E024B	A	ALL	H	E024BCA
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJN-51	CU CA THISTED W/OVERALL SHLD	ROCKBESTOS CO.	E024B	A	ALL	H	E024BCB
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJN-52	CU CA THISTED W/OVERALL SHLD	ROCKBESTOS CO.	E024B	A	ALL	H	E024BCD
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJN-53	CU CA THISTED W/OVERALL SHLD	ROCKBESTOS CO.	E024B	A	ALL	H	E024BCE
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJN-07	STR CU CA EPR INS H JKT	KERITE	E024A	A	ALL	H	E024AAG
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJN-08	STR CU CA EPR INS H JKT	KERITE	E024A	A	ALL	H	E024AAH
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJN-09	STR CU CA EPR INS H JKT	KERITE	E024A	A	ALL	H	E024AAI
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJN-10	STR CU CA EPR INS H JKT	KERITE	E024A	A	ALL	H	E024AAJ
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJN-11	STR CU TRX NO 4 GND JKT	KERITE	E023B	A	ALL	H	E023BAA
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJN-12	STR CU TRX NO 2 GND JKT	KERITE	E023B	A	ALL	H	E023BAB
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJN-13	STR CU TRX NO 2 GND JKT	KERITE	E023B	A	ALL	H	E023BAC
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					

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2NJN-14	STR CU TRX NO 2 GND JKT	KERITE	E023B	A	ALL	H	E023BAD
REMARKS:SEE SCEH SHEET FOR ZONE RESTRICTIONS *							
2NJN-15	STR CU TRX NO 2 GND JKT	KERITE	E023B	A	ALL	H	E023BAE
REMARKS:SEE SCEH SHEET FOR ZONE RESTRICTIONS *							
2NJN-17	STR CU CA THERMO INS OA JKT	KERITE	E023B	A	ALL	H	E023BAF
REMARKS:SEE SCEH SHEET FOR ZONE RESTRICTIONS *							
2NJN-18	STR C CA EPR INS H JKT SHLD	KERITE	E024A	A	ALL	H	E024AAK
REMARKS:SEE SCEH SHEET FOR ZONE RESTRICTIONS *							
2NJN-19	STR C CA EPR INS H JKT SHLD	KERITE	E024A	A	ALL	H	E024AAL
REMARKS:SEE SCEH SHEET FOR ZONE RESTRICTIONS *							
2NJN-20	STR CU CA EPR INS H JKT SHLD	KERITE	E024A	A	ALL	H	E024AAM
REMARKS:SEE SCEH SHEET FOR ZONE RESTRICTIONS *							
2NJN-21	STR CU CA EPR INS H JKT SHLD	KERITE	E024A	A	ALL	H	E024AAN
REMARKS:SEE SCEH SHEET FOR ZONE RESTRICTIONS *							
2NJN-22	STR CU CA EPR INS H JKT SHLD	KERITE	E024A	A	ALL	H	E024AAO
REMARKS:SEE SCEH SHEET FOR ZONE RESTRICTIONS *							
2NJN-23	STR CU CA EPR INS H JKT SHLD	KERITE	E024A	A	ALL	H	E024AAP
REMARKS:SEE SCEH SHEET FOR ZONE RESTRICTIONS *							
2NJN-31	STR CU CA EPR INS H JKT SHLD	KERITE	E024A	A	ALL	H	E024AAQ
REMARKS:SEE SCEH SHEET FOR ZONE RESTRICTIONS *							
2NJN-32	STR CU CA EPR INS H JKT SHLD	KERITE	E024A	A	ALL	H	E024AAR
REMARKS:SEE SCEH SHEET FOR ZONE RESTRICTIONS *							
2NJN-34	STR CU CA XPLE INS H JKT	ROCKBESTOS CO.	E024B	A	ALL	H	E024BBA
REMARKS:SEE SCEH SHEET FOR ZONE RESTRICTIONS *							
2NJN-35	STR CU CA XPLE INS H JKT	ROCKBESTOS CO.	E024B	A	ALL	H	E024BBN
REMARKS:SEE SCEH SHEET FOR ZONE RESTRICTIONS *							
2NJN-36	STR CU CA XPLE INS H JKT	ROCKBESTOS CO.	E024B	A	ALL	H	E024BBB
REMARKS:SEE SCEH SHEET FOR ZONE RESTRICTIONS *							
2NJN-37	STR CU CA XPLE INS H JKT	ROCKBESTOS CO.	E024B	A	ALL	H	E024BBC
REMARKS:SEE SCEH SHEET FOR ZONE RESTRICTIONS *							

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EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2NJN-38	STR CU CA XPLE INS H JKT	ROCKBESTOS CO.	E024B	A	ALL	H	E024BBD
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJN-39	STR CU CA XPLE INS H JKT	ROCKBESTOS CO.	E024B	A	ALL	H	E024BBE
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJN-59	STR CU CA NON SHLD	ROCKBESTOS CO.	E024B	A	ALL	H	E024BAA
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJP-03	STU CU CA 1 THTRIP H JKT SHLD	OKONITE CO.	E024P	A	ALL	H	E024PAE
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJP-04	STR CU CA 1 TH QUAD JKT SHLD	OKONITE CO.	E024P	A	ALL	H	E024PAH
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJP-05	STR CU CA 1 THPR H JKT SHLD	OKONITE CO.	E024P	A	ALL	H	E024PAA
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJP-06	STR CU CA 2 THPR SHLD H JKT	OKONITE CO.	E024P	A	ALL	H	E024PAB
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJP-08	STR CU CA 5 THPR SHLD H JKT	OKONITE CO.	E024P	A	ALL	H	E024PAC
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJP-09	STR CU CA 7 THPR SHLD H JKT	OKONITE CO.	E024P	A	ALL	H	E024PAD
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJP-13	COAXIAL/TRIAXIAL CABLE	ROCKBESTOS CO.	E024B	A	ALL	H	E024BXA
REMARKS:							
2NJP-14	STR CU CA 2 TH TRIP SHLD H JKT	OKONITE CO.	E024P	A	ALL	H	E024PAF
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJP-15	STR CU CA 5 TH TRIP SHLD H JKT	OKONITE CO.	E024P	A	ALL	H	E024PAG
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJP-16	IRON/CONST 2 THPR H JKT SHLD	ROCKBESTOS CO.	E024R	A	ALL	H	E024RAE
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJP-20	STR CU-CONST 1 THPR H JKT SHLD	ROCKBESTOS CO.	E024R	A	ALL	H	E024RAA
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJP-21	STR CU-CONST 2 THPR H JKT SHLD	ROCKBESTOS CO.	E024R	A	ALL	H	E024RAB
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					

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2NJP-23	STR CU-CONST 5 THPR H JKT SHLD	ROCKBESTOS CO.	E024R	A	ALL	H	E024RAC
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJP-24	STR CU-CONST 7 THPR H JKT SHLD	ROCKBESTOS CO.	E024R	A	ALL	H	E024RAD
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJP-25	STR CU CA (ITH PR CH/AL)	ROCKBESTOS CO.	E024B	A	ALL	H	E024BEC
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJP-26	CHROMEL/AL 28 THPR N JKT SHLD	ROCKBESTOS CO.	E024R	A	ALL	H	E024RAF
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJP-27	CHROMEL/AL 4 THPR N JKT SHLD	ROCKBESTOS CO.	E024R	A	ALL	H	E024RAG
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJP-28	COAXIAL/TRIAXIAL CABLE	ROCKBESTOS CO.	E024B	A	ALL	H	E024BXB
REMARKS:							
2NJP-29	COAXIAL/TRIAXIAL CABLE	ROCKBESTOS CO.	E024B	A	ALL	H	E024BXC
REMARKS:							
2NJP-31	COAXIAL/TRIAXIAL CABLE	ROCKBESTOS CO.	E024B	A	ALL	H	E024BXD
REMARKS:							
2NJP-32	COAXIAL/TRIAXIAL CABLE	ROCKBESTOS CO.	E024B	A	ALL	H	E024BXE
REMARKS:							
2NJP-35	STR CU CA N JKT SHLD	ROCKBESTOS CO.	E024B	A	ALL	H	E024BEG
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJP-36	STR CU CA N JKT SHLD	ROCKBESTOS CO.	E024B	A	ALL	H	E024BEF
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJP-37	STR CU CA N JKT SHLD	ROCKBESTOS CO.	E024B	A	ALL	H	E024BEE
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJP-38	STR CU CA N JKT SHLD	ROCKBESTOS CO.	E024B	A	ALL	H	E024BED
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJP-40	STR CU CA 2 TH PR OA SHD H JKT	OKONITE CO.	E024P	A	ALL	H	E024PAI
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJP-41	STR CU CA 5 TH PR OA SHD H JKT	OKONITE CO.	E024P	A	ALL	H	E024PAJ
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					

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2NJP-42	STR CU CA 9 TH PR OA SHD H JKT	OKONITE CO.	E024P	A	ALL	H	E024PAK
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJP-43	STR CU CA 19TH PR OA SHD H JKT	OKONITE CO.	E024P	A	ALL	H	E024PAL
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJP-45	STR CU CA 1 TH PR OA SHD H JKT	OKONITE CO.	E024P	A	ALL	H	E024PAM
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJP-51	COAXIAL/TRIAXIAL CABLE	ROCKBESTOS CO.	E024B	A	ALL	H	E024BXF
REMARKS:							
2NJP-52	COAXIAL/TRIAXIAL CABLE	ROCKBESTOS CO.	E024B	A	ALL	H	E024BXG
REMARKS:							
2NJP-57	STR CU CA H JKT SHLD	ROCKBESTOS CO.	E024B	A	ALL	H	E024BEA
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJP-61	STR CU CA H JKT SHLD	ROCKBESTOS CO.	E024B	A	ALL	H	E024BEB
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJP-67	STR CU CA 1 TH PR THERMO INS J	ROCKBESTOS CO.	E024B	A	ALL	H	E024BBO
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJP-68	STR CU CA 1 THPR OA SHLD B-G	ROCKBESTOS CO.	E024B	A	ALL	H	E024BCF
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJP-69	STR CU CA 10 THPR OA S82 INS	ROCKBESTOS CO.	E024B	A	ALL	H	E024BCC
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJP-70	STR CU CA 6 THPR THERMO INS J	ROCKBESTOS CO.	E024B	A	ALL	H	E024BBH
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJP-72	STR CU CA 1 THPR TH INS J B-G	ROCKBESTOS CO.	E024B	A	ALL	H	E024BBJ
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJP-73	STR CU CA 1 THPR TH IN J BL-R	ROCKBESTOS CO.	E024B	A	ALL	H	E024BBK
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJP-74	STR CU CA 1 THPR THERMO INS J	ROCKBESTOS CO.	E024B	A	ALL	H	E024BBL
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					
2NJP-75	STR CU CA XPLE INS 90C H	ROCKBESTOS CO.	E024B	A	ALL	H	E024BAG
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS	*					

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2NJP-76	STR CU CA XPLE INS 90C B	ROCKBESTOS CO.	E024B	A	ALL	H	E024BAD
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS *						
2NJP-77	STR CU CA XPLE INS 90C H	ROCKBESTOS CO.	E024B	A	ALL	H	E024BAF
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS *						
2NJP-78	STR CU CA XPLE INS 90C B	ROCKBESTOS CO.	E024B	A	ALL	H	E024BAC
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS *						
2NJP-79	STR CU CA XPLE INS 90C H	ROCKBESTOS CO.	E024B	A	ALL	H	E024BAE
REMARKS:							
2NJP-80	STR CU CA XPLE INS 90C BSHLD	ROCKBESTOS CO.	E024B	A	ALL	H	E024BAB
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS *						
2NJP-81	STR CU CA XPLE INS 90C R	ROCKBESTOS CO.	E024B	A	ALL	H	E024BAH
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS *						
2NJP-82	STR CU CAXPLE INS 90C O	ROCKBESTOS CO.	E024B	A	ALL	H	E024BAI
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS *						
2NJP-83	STR CU CA XPLE INS 90C B	ROCKBESTOS CO.	E024B	A	ALL	H	E024BAJ
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS *						
2NJP-84	STR CU CA XPLE INS 90C R	ROCKBESTOS CO.	E024B	A	ALL	H	E024BAK
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS *						
2NJP-85	STR CU CA XPLE INS 90C O	ROCKBESTOS CO.	E024B	A	ALL	H	E024BAL
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS *						
2NJP-86	STR CU CA XPLE INS 90C B	ROCKBESTOS CO.	E024B	A	ALL	H	E024BAM
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS *						
2NJP-87	STR CU CA XPLE INS 90C R	ROCKBESTOS CO.	E024B	A	ALL	H	E024BAN
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS *						
2NJP-88	STR CU CA XPLE INS 90C OA JKT	ROCKBESTOS CO.	E024B	A	ALL	H	E024BBI
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS *						
2NJP-90	STR CU CA XLPE INS 90C G	ROCKBESTOS CO.	E024B	A	ALL	H	E024BAP
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS *						
2NJP-91	STR CU CA XLPE INS 90C G	ROCKBESTOS CO.	E024B	A	ALL	H	E024BAR
REMARKS:	SEE SCEH SHEET FOR ZONE RESTRICTIONS *						

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EQUIPMENT ID	DESCRIPTION	VENDOR NAME	SPEC	EQ STAT	ZONE	ZNIND	QUAL REF
2NJP-94	STR CU CA XLPE INS 90C G	ROCKBESTOS CO.	E024B	A	ALL	H	E024BAQ

REMARKS:SEE SCEH SHEET FOR ZONE RESTRICTIONS *

NMP2-ENVIRONMENTAL QUALIFICATION DATA MASTER LIST (NSSS)
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MARK NO / SHEC ID.	EQUIPMENT DESCRIPTION	REMARKS	ENV. ZONE	ENVTYP	EQUALST	QUAL REF
B13-D192A	IRM DETECTOR CONN		PC261207	HARSH	A	P800AAA
B13-D192B	IRM DETECTOR CONN		PC261207	HARSH	A	P800AAB
B13-D192C	IRM DETECTOR CONN		PC261207	HARSH	A	P800AAC
B13-D192D	IRM DETECTOR CONN		PC261207	HARSH	A	P800AAD
B13-D192E	IRM DETECTOR CONN		PC261207	HARSH	A	P800AAE
B13-D192F	IRM DETECTOR CONN		PC261207	HARSH	A	P800AAF
B13-D192G	IRM DETECTOR CONN		PC261207	HARSH	A	P800AAG
B13-D192H	IRM DETECTOR CONN		PC261207	HARSH	A	P800AAH
B13-D192J	SRM DETECTOR CONN		PC261207	HARSH	A	P800AAI
B13-D192K	SRM DETECTOR CONN		PC261207	HARSH	A	P800AAJ
B13-D192L	SRM DETECTOR CONN		PC261207	HARSH	A	P800AAK
B13-D192M	SRM DETECTOR CONN		PC261207	HARSH	A	P800AAL
B13-D193	POWER RANGE DETECTOR		PC261207	HARSH	A	P800AAM
B13-D194	POWER RANGE DET CONN		PC261207	HARSH	A	P800AAN
B22-F013A 2MSS*PSV133	SAFETY RELIEF VALVE		PC289680	HARSH	C	P800AAO
B22-F013B 2MSS*PSV128	SAFETY RELIEF VALVE		PC289680	HARSH	C	P800AAP
B22-F013C 2MSS*PSV137	SAFETY RELIEF VALVE		PC289680	HARSH	C	P800AAQ
B22-F013D 2MSS*PSV123	SAFETY RELIEF VALVE		PC289680	HARSH	C	P800AAR
B22-F013E 2MSS*PSV136	SAFETY RELIEF VALVE		PC289680	HARSH	C	P800AAS
B22-F013F 2MSS*PSV122	SAFETY RELIEF VALVE		PC289680	HARSH	C	P800AAT

MARK NO / SHEC ID.	EQUIPMENT DESCRIPTION	REMARKS	ENV. ZONE	ENVTYP	EQUALST	QUAL REF
B22-F013G 2HSS*PSV132	SAFETY RELIEF VALVE		PC289680	HARSH	C	P800AAU
B22-F013H 2HSS*PSV127	SAFETY RELIEF VALVE		PC289680	HARSH	C	P800AAV
B22-F013J 2HSS*PSV131	SAFETY RELIEF VALVE		PC289680	HARSH	C	P800AAW
B22-F013K 2HSS*PSV126	SAFETY RELIEF VAVLE		PC289680	HARSH	C	P800AAX
B22-F013L 2HSS*PSV135	SAFETY RELIEF VALVE		PC289680	HARSH	C	P800AAY
B22-F013M 2HSS*PSV121	SAFETY RELIEF VALVE		PC289680	HARSH	C	P800AAZ
B22-F013N 2HSS*PSV134	SAFETY RELIEF VALVE		PC289686	HARSH	C	P800ABA
B22-F013P 2HSS*PSV120	SAFETY RELIEF VALVE		PC297691	HARSH	C	P800ABB
B22-F013R 2HSS*PSV130	SAFETY RELIEF VALVE		PC289680	HARSH	C	P800ABC
B22-F013S 2HSS*PSV125	SAFETY RELIEF VALVE		PC289680	HARSH	C	P800ABD
B22-F013U 2HSS*PSV129	SAFETY RELIEF VALVE		PC289680	HARSH	C	P800ABE
B22-F013V 2HSS*PSV124	SAFETY RELIEF VALVE		PC289680	HARSH	C	P800ABF
B22-N044A 2ISC*LT13A	LEVEL TRANSMITTER	RG 1.97	SC215122	HARSH	B	P800ABG
B22-N044B 2ISC*LT13B	LEVEL TRANSMITTER	RG 1.97	SC215122	HARSH	B	P800ABH
B22-N062A 2ISC*PT6A	PRESSURE TRANSMITTER	RG 1.97	SC261145	HARSH	B	P800ABI

NMP2-ENVIRONMENTAL QUALIFICATION DATA MASTER LIST (NSSS)
SORTED BY MARK NUMBER

MARK NO SHEC ID.	EQUIPMENT DESCRIPTION	REMARKS	ENV. ZONE	ENVTYP	EQUALST	QUAL REF
B22-N062B 2ISC*PT6B	PRESSURE TRANSMITTER	RG 1.97	SC261145	HARSH	B	P800ABJ
B22-N067C 2ISC*PT16B	PRESSURE TRANSMITTER		SC261145	HARSH	B	P800ABK
B22-N067G 2ISC*PT16D	PRESSURE TRANSMITTER		SC261145	HARSH	B	P800ABL
B22-N067L 2ISC*PT16A	PRESSURE TRANSMITTER		SC261145	HARSH	B	P800ABM
B22-N067R 2ISC*PT16C	PRESSURE TRANSMITTER		SC261145	HARSH	B	P800ABN
B22-N068A 2ISC*PT5A	PRESSURE TRANSMITTER		SC261145	HARSH	B	P800ABO
B22-N068E 2ISC*PT5D	PRESSURE TRANSMITTER		SC261145	HARSH	B	P800ABP
B22-N073C 2ISC*LT10B	LEVEL TRANSMITTER		SC261145	HARSH	B	P800ABQ
B22-N073G 2ISC*LT10D	LEVEL TRANSMITTER		SC261145	HARSH	B	P800ABR
B22-N073L 2ISC*LT10A	LEVEL TRANSMITTER		SC261145	HARSH	B	P800ABS
B22-N073R 2ISC*LT10C	LEVEL TRANSMITTER		SC261145	HARSH	B	P800ABT
B22-N075A 2CNM*PT46A	PRESSURE TRANSMITTER		TURB BLDG	HARSH	B	P800ABU
B22-N075B 2CNM*PT46B	PRESSURE TRANSMITTER		TURB BLDG	HARSH	B	P800ABV
B22-N075C 2CNM*PT46C	PRESSURE TRANSMITTER		TURB BLDG	HARSH	B	P800ABW
B22-N075D 2CNM*PT46D	PRESSURE TRANSMITTER		TURB BLDG	HARSH	B	P800ABX

MARK NO SHEC ID.	EQUIPMENT DESCRIPTION	REMARKS	ENV. ZONE	ENVTYP	EQUALST	QUAL REF
B22-N076A 2HSS*PT20A	PRESSURE TRANSMITTER		TURB BLDG	HARSH	B	P800ABY
B22-N076B 2HSS*PT20B	PRESSURE TRANSMITTER		TURB BLDG	HARSH	B	P800ABZ
B22-N076C 2HSS*PT20C	PRESSURE TRANSMITTER		TURB BLDG	HARSH	B	P800ACA
B22-N076D 2HSS*PT20D	PRESSURE TRANSMITTER		TURB BLDG	HARSH	B	P800ACB
B22-N078A 2ISC*PT4C	PRESSURE TRANSMITTER		SC261145	HARSH	B	P800ACC
B22-N078B 2ISC*PT4B	PRESSURE TRANSMITTER		SC261145	HARSH	B	P800ACD
B22-N078C 2ISC*PT4A	PRESSURE TRANSMITTER		SC261145	HARSH	B	P800ACE
B22-N078D 2ISC*PT4D	PRESSURE TRANSMITTER		SC261145	HARSH	B	P800ACF
B22-N080A 2ISC*LT7C	LEVEL TRANSMITTER		SC261145	HARSH	B	P800ACG
B22-N080B 2ISC*LT7B	LEVEL TRANSMITTER		SC261145	HARSH	B	P800ACH
B22-N080C 2ISC*LT7A	LEVEL TRANSMITTER		SC261145	HARSH	B	P800ACI
B22-N080D 2ISC*LT7D	LEVEL TRANSMITTER		SC261145	HARSH	B	P800ACJ
B22-N081A 2ISC*LT11A	LEVEL TRANSMITTER		SC261145	HARSH	B	P800ACK
B22-N081B 2ISC*LT11B	LEVEL TRANSMITTER		SC261145	HARSH	B	P800ACL
B22-N081C 2ISC*LT11C	LEVEL TRANSMITTER		SC261145	HARSH	B	P800ACM

NMP2-ENVIRONMENTAL QUALIFICATION DATA MASTER LIST (NSSS)
SORTED BY MARK NUMBER

MARK NO / SHEC ID.	EQUIPMENT DESCRIPTION	REMARKS	ENV. ZONE	ENVTYP	EQUALST	QUAL REF
B22-N081D 2ISC*LT11D	LEVEL TRANSMITTER		SC261145	HARSH	B	P800ACN
B22-N091A 2ISC*LT9A	LEVEL TRANSMITTER		SC261145	HARSH	B	P800ACO
B22-N091B 2ISC*LT9B	LEVEL TRANSMITTER		SC261145	HARSH	B	P800ACP
B22-N091E 2ISC*LT9C	LEVEL TRANSMITTER		SC261145	HARSH	B	P800ACQ
B22-N091F 2ISC*LT9D	LEVEL TRANSMITTER		SC261145	HARSH	B	P800ACR
B22-N094A 2ISC*PT17A	PRESSURE TRANSMITTER		SC261145	HARSH	B	P800ACS
B22-N094B 2ISC*PT17B	PRESSURE TRANSMITTER		SC261145	HARSH	B	P800ACT
B22-N094E 2ISC*PT17C	PRESSURE TRANSMITTER		SC261145	HARSH	B	P800ACU
B22-N094F 2ISC*PT17D	PRESSURE TRANSMITTER		SC261145	HARSH	B	P800ACV
B22-N095A 2ISC*LT12A	LEVEL TRANSMITTER		SC261145	HARSH	B	P800ACW
B22-N095B 2ISC*LT12B	LEVEL TRANSMITTER		SC261145	HARSH	B	P800ACX
B22-N402A 2ISC*LT8A	LEVEL TRANSMITTER		SC261145	HARSH	B	P800ACY
B22-N402B 2ISC*LT8C	LEVEL TRANSMITTER		SC261145	HARSH	B	P800ACZ
B22-N402E 2ISC*LT8B	LEVEL TRANSMITTER		SC261145	HARSH	B	P800ADA
B22-N402F 2ISC*LT8D	LEVEL TRANSMITTER		SC261145	HARSH	B	P800ADB

NMP2-ENVIRONMENTAL QUALIFICATION DATA MASTER LIST (NSSS)
SORTED BY MARK NUMBER

MARK NO / SHEC ID.	EQUIPMENT DESCRIPTION	REMARKS	ENV. ZONE	ENVTYP	EQUALST	QUAL REF
B22-N403A 2ISC*PT2A	PRESSURE TRANSMITTER		SC261145	HARSH	B	P800ADC
B22-N403B 2ISC*PT2C	PRESSURE TRANSMITTER		SC261145	HARSH	B	P800ADD
B22-N403E 2ISC*PT2B	PRESSURE TRANSMITTER		SC261145	HARSH	B	P800ADE
B22-N403F 2ISC*PT2D	PRESSURE TRANSMITTER		SC261145	HARSH	B	P800ADF
B35-N014A 2RCS*FT6A	FLOW TRANSMITTER		SC215122	HARSH	B	P800ADG
B35-N014B 2RCS*FT8A	FLOW TRANSMITTER		SC215122	HARSH	B	P800ADH
B35-N014C 2RCS*FT7A	FLOW TRANSMITTER		SC215122	HARSH	B	P800ADI
B35-N014D 2RCS*FT9A	FLOW TRANSMITTER		SC215122	HARSH	B	P800ADJ
B35-N022 2RCS-TE106	TEMPERATURE ELEMENT		PC261648	HARSH	A	P800ADK
B35-N023A 2RCS-TE13A	TEMPERATURE ELEMENT		PC250622	HARSH	A	P800ADL
B35-N023B 2RCS-TE13B	TEMPERATURE ELEMENT		PC250618	HARSH	A	P800ADM
B35-N024A 2RCS*FT6B	FLOW TRANSMITTER		SC215122	HARSH	B	P800ADN
B35-N024B 2RCS*FT8B	FLOW TRANSMITTER		SC215122	HARSH	B	P800ADO
B35-N024C 2RCS*FT7B	FLOW TRANSMITTER		SC215122	HARSH	B	P800ADP
B35-N024D 2RCS*FT9B	FLOW TRANSMITTER		SC215122	HARSH	B	P800ADQ

NMP2-ENVIRONMENTAL QUALIFICATION DATA MASTER LIST (NSSS)
SORTED BY MARK NUMBER

MARK NO / SHEC ID.	EQUIPMENT DESCRIPTION	REMARKS	ENV. ZONE	ENVTYP	EQUALST	QUAL REF
B35-N028A 2RCS-TE12A	TEMPERATURE ELEMENT		PC250622	HARSH	A	P800ADR
B35-N028B 2RCS-TE12B	TEMPERATURE ELEMENT		PC250618	HARSH	A	P800ADS
C12-D001 2RDS	HCU PILOT SCRAM SOL		SC261145	HARSH	B	P800ADT
C12-F009 2RDS*SOVX154	SDV SOLENOID VALVE		SC261145	HARSH	A	P800ADU
C12-F110A 2RDS*SOV138	BACKUP SCRAM SOL		SC261145	HARSH	A	P800ADX
C12-F110B 2RDS*SOV137	BACKUP SCRAM SOL		SC261145	HARSH	A	P800ADY
C12-F160A 2RDS*SOV162	ARI VALVE		SC261145	HARSH	A	P800ADZ
C12-F160B 2RDS*SOV163	ARI VALVE		SC261145	HARSH	A	P800AEA
C12-F162A 2RDS*SOV156	ARI VALVE.		SC261145	HARSH	A	P800AEB
C12-F162B 2RDS*SOV157	ARI VALVE		SC261145	HARSH	A	P800AEC
C12-F162C 2RDS*SOV158	ARI VALVE		SC261145	HARSH	A	P800AED
C12-F162D 2RDS*SOV159	ARI VALVE		SC261145	HARSH	A	P800AEE
C12-F163A 2RDS*SOV160	ARI VALVE .		SC261145	HARSH	A	P800AEF
C12-F163B 2RDS*SOV161	ARI VALVE		SC261145	HARSH	A	P800AEG
C12-F182 2RDS*SOVX155	SCRAM AIR CONTROL V		SC261145	HARSH	A	P800AEJ

NMP2-ENVIRONMENTAL QUALIFICATION DATA MASTER LIST (NSSS)
SORTED BY MARK NUMBER

MARK NO / SHEC ID.	EQUIPMENT DESCRIPTION	REMARKS	ENV. ZONE	ENVTYP	EQUALST	QUAL REF
C12-N012A 2RDS*LTY12B	LEVEL TRANSMITTER		SC261145	HARSH	B	P800AEL
C12-N012B 2RDS*LTX12B	LEVEL TRANSMITTER		SC261145	HARSH	B	P800AEM
C12-N012C 2RDS*LTY12A	LEVEL TRANSMITTER		SC261145	HARSH	B	P800AEN
C12-N012D 2RDS*LTX12A	LEVEL TRANSMITTER		SC261145	HARSH	B	P800AEO
C12-N013A 2RDS*LSY11A	LEVEL SWITCH		SC261145	HARSH	B	P800AEP
C12-N013B 2RDS*LSX11A	LEVEL SWITCH		SC261145	HARSH	B	P800AEQ
C12-N013C 2RDS*LSY11B	LEVEL SWITCH		SC261145	HARSH	B	P800AER
C12-N013D 2RDS*LSX11B	LEVEL SWITCH		SC261145	HARSH	B	P800AES
C41-C001A 2SLS*P1A	SLC MOTOR		SC289155	HARSH	A	P800AET
C41-C001B 2SLS*P1B	SLC MOTOR		SC289155	HARSH	A	P800AEU
C41-F004A 2SLS*VEX3A	SLC CONTROL VALVE		SC289155	HARSH	A	P800AEX
C41-F004B 2SLS*VEX3B	SLC CONTROL VALVE		SC289155	HARSH	A	P800AEY
C41-N001 2SLS*LT103	LEVEL TRANSMITTER	RG 1.97	SC289155	HARSH	B	P800AEZ
C41-N003 2SLS*TS102	TEMPERATURE SWITCH		SC289155	HARSH	A	P800AFA
C41-N004A 2SLS*PT4A	PRESSURE TRANSMITTER		SC289155	HARSH	B	P800AFB

NMP2-ENVIRONMENTAL QUALIFICATION DATA MASTER LIST (NSSS)
SORTED BY MARK NUMBER

MARK NO SHEC ID.	EQUIPMENT DESCRIPTION	REMARKS	ENV. ZONE	ENVTYP	EQUALST	QUAL REF
C41-N004B 2SLS*PT4B	PRESSURE TRANSMITTER		SC289155	HARSH	B	P800AFC
C41-N007 2SLS*FT113	FLOW TRANSMITTER	RG 1.97	SC289155	HARSH	B	P800AFD
C41-N010A 2SLS*LT6A	LEVEL TRANSMITTER		SC289155	HARSH	B	P800AFE
C41-N010B 2SLS*LT6B	LEVEL TRANSMITTER		SC289155	HARSH	B	P800AFF
C41-N010C 2SLS*LT6C	LEVEL TRANSMITTER		SC289155	HARSH	B	P800AFG
C41-N010D 2SLS*LT6D	LEVEL TRANSMITTER		SC289155	HARSH	B	P800AFH
C51-J004A 2NMS	VALVE ASSEMBLY	RG 1.97	SC240138	HARSH	A	P800AFI
C51-J004B 2NMS	VALVE ASSEMBLY	RG 1.97	SC240138	HARSH	A	P800AFJ
C51-J004C 2NMS	VALVE ASSEMBLY	RG 1.97	SC240138	HARSH	A	P800AFK
C51-J004D 2NMS	VALVE ASSEMBLY	RG 1.97	SC240138	HARSH	A	P800AFL
C51-J004E 2NMS	VALVE ASSEMBLY	RG 1.97	SC240138	HARSH	A	P800AFM
C51-K002A 2NMS	VOLTAGE PREAMPLIFIER		SC240135	HARSH	B	P800AFR
C51-K002B 2NMS	VOLTAGE PREAMPLIFIER		SC240135	HARSH	B	P800AFS
C51-K002C 2NMS	VOLTAGE PREAMPLIFIER		SC240135	HARSH	B	P800AFT
C51-K002D 2NMS	VOLTAGE PREAMPLIFIER		SC240135	HARSH	B	P800AFU

MARK NO / SHEC ID.	EQUIPMENT DESCRIPTION	REMARKS	ENV. ZONE	ENVTYP	EQUALST	QUAL REF
C51-K002E 2NMS	VOLTAGE PREAMPLIFIER		SC240135	HARSH	B	P800AFV
C51-K002F 2NMS	VOLTAGE PREAMPLIFIER		SC240135	HARSH	B	P800AFW
C51-K002G 2NMS	VOLTAGE PREAMPLIFIER		SC240135	HARSH	B	P800AFX
C51-K002H 2NMS	VOLTAGE PREAMPLIFIER		SC240135	HARSH	B	P800AFY
C51-N002A 2NMS	INT RANGE DETECTOR		PC261207	HARSH	A	P800AGD
C51-N002B 2NMS	INT RANGE DETECTOR		PC261207	HARSH	A	P800AGE
C51-N002C 2NMS	INT RANGE DETECTOR		PC261207	HARSH	A	P800AGF
C51-N002D 2NMS	INT RANGE DETECTOR		PC261207	HARSH	A	P800AGG
C51-N002E 2NMS	INT RANGE DETECTOR		PC261207	HARSH	A	P800AGH
C51-N002F 2NMS	INT RANGE DETECTOR		PC261207	HARSH	A	P800AGI
C51-N002G 2NMS	INT RANGE DETECTOR		PC261207	HARSH	A	P800AGJ
C51-N002H 2NMS	INT RANGE DETECTOR		PC261207	HARSH	A	P800AGK
C72-N050A 2ISC*PT15C	PRESSURE TRANSMITTER		SC261145	HARSH	B	P800AGL
C72-N050B 2ISC*PT15B	PRESSURE TRANSMITTER		SC261145	HARSH	B	P800AGM
C72-N050C 2ISC*PT15A	PRESSURE TRANSMITTER		SC261145	HARSH	B	P800AGN

NMP2-ENVIRONMENTAL QUALIFICATION DATA MASTER LIST (NSSS)
SORTED BY MARK NUMBER

MARK NO / SHEC ID.	EQUIPMENT DESCRIPTION	REMARKS	ENV. ZONE	ENVTYP	EQUALST	QUAL REF
C72-N050D 2ISC*PT15D	PRESSURE TRANSMITTER		SC261145	HARSH	B	P800AGO
C72-N052A 2HSS*PT16A	PRESSURE TRANSMITTER		TURB BLDG	HARSH	B	P800AGP
C72-N052B 2HSS*PT16B	PRESSURE TRANSMITTER		TURB BLDG	HARSH	B	P800AGQ
C72-N052C 2HSS*PT16C	PRESSURE TRANSMITTER		TURB BLDG	HARSH	B	P800AGR
C72-N052D 2HSS*PT16D	PRESSURE TRANSMITTER		TURB BLDG	HARSH	B	P800AGS
D13-N003A 2HSS*RE46A	INSULATED DETECTOR		HST24045	HARSH	A	P800AGT
D13-N003B 2HSS*RE46B	INSULATED DETECTOR		HST24045	HARSH	A	P800AGU
D13-N003C 2HSS*RE46C	INSULATED DETECTOR		HST24045	HARSH	A	P800AGV
D13-N003D 2HSS*RE46D	INSULATED DETECTOR		HST24045	HARSH	A	P800AGH
E12-C002A 2RHS*M1A	RHR MOTOR		ABN17504	HARSH	A	P800AGX
E12-C002B 2RHS*M1B	RHR MOTOR		ABS17509	HARSH	A	P800AGY
E12-C002C 2RHS*M1C	RHR MOTOR		ABS17508	HARSH	A	P800AGZ
E12-N004A 2RHS*TE10A	TEMPERATURE ELEMENT		ABN19615	HARSH	A	P800AHE
E12-N004B 2RHS*TE10B	TEMPERATURE ELEMENT		ABS19620	HARSH	A	P800AHF
E12-N005A 2SWP*TE12A	TEMPERATURE ELEMENT		ABN17504	HARSH	A	P800AHG

NMP2-ENVIRONMENTAL QUALIFICATION DATA MASTER LIST (NSSS)
SORTED BY MARK NUMBER

MARK NO / SNEC ID.	EQUIPMENT DESCRIPTION	REMARKS	ENV. ZONE	ENVTYP	EQUALST	QUAL REF
E12-N005B 2SWP*TE12B	TEMPERATURE ELEMENT		ABS17510	HARSH	A	P800AHI
E12-N007A 2SWP*FT13A	FLOW TRANSMITTER	RG 1.97	SC175105	HARSH	B	P800AHJ
E12-N007B 2SWP*FT13B	FLOW TRANSMITTER	RG 1.97	SC175109	HARSH	B	P800AHK
E12-N008A 2RHS*LT28A	LEVEL TRANSMITTER		ABN17506	HARSH	A	P800AHL
E12-N008B 2RHS*LT28B	LEVEL TRANSMITTER		ABS17511	HARSH	A	P800AHM
E12-N013 2RHS*FT105	FLOW TRANSMITTER		SC261145	HARSH	A	P800AHN
E12-N015A 2RHS*FT14A	FLOW TRANSMITTER	RG 1.97	SC175105	HARSH	B	P800AHO
E12-N015B 2RHS*FT14B	FLOW TRANSMITTER	RG 1.97	SC175109	HARSH	B	P800AHD
E12-N015C 2RHS*FT14C	FLOW TRANSMITTER	RG 1.97	SC175109	HARSH	B	P800AHP
E12-N026A 2RHS*PT21A	PRESSURE TRANSMITTER		SC175105	HARSH	A	P800AHQ
E12-N026B 2RHS*PT21B	PRESSURE TRANSMITTER		SC175109	HARSH	A	P800AHR
E12-N027A 2RHS*TE13A	TEMPERATURE ELEMENT		ABN17505	HARSH	A	P800AHS
E12-N027B 2RHS*TE13B	TEMPERATURE ELEMENT		ABS17509	HARSH	A	P800AHT
E12-N028 2RHS*PT114	PRESSURE TRANSMITTER		SC175109	HARSH	A	P800AHU
E12-N050A 2RHS*PT76A	PRESSURE TRANSMITTER		SC175105	HARSH	A	P800AHV

NMP2-ENVIRONMENTAL QUALIFICATION DATA MASTER LIST (NSSS)
SORTED BY MARK NUMBER

MARK NO / SHEC ID.	EQUIPMENT DESCRIPTION	REMARKS	ENV. ZONE	ENVTYP	EQUALST	QUAL REF
E12-N050B 2RHS*PT76B	PRESSURE TRANSMITTER		SC175109	HARSH	A	P800AHW
E12-N051A 2RHS*PT75A	PRESSURE TRANSMITTER		SC175105	HARSH	A	P800AHX
E12-N051B 2RHS*PT75B	PRESSURE TRANSMITTER		SC175109	HARSH	A	P800AHY
E12-N052A 2RHS*FT86A	FLOW TRANSMITTER		SC175105	HARSH	B	P800AHZ
E12-N052B 2RHS*FT86B	FLOW TRANSMITTER		SC175109	HARSH	B	P800AIA
E12-N052C 2RHS*FT86C	FLOW TRANSMITTER		SC175109	HARSH	B	P800AIB
E12-N053A 2RHS*PT7A	PRESSURE TRANSMITTER		SC175105	HARSH	A	P800AIC
E12-N053B 2RHS*PT7B	PRESSURE TRANSMITTER		SC175109	HARSH	A	P800AID
E12-N053C 2RHS*PT7C	PRESSURE TRANSMITTER		SC175109	HARSH	A	P800AIE
E12-N055A 2RHS*PT5A	PRESSURE TRANSMITTER		SC175105	HARSH	B	P800AIF
E12-N055B 2RHS*PT5B	PRESSURE TRANSMITTER		SC175109	HARSH	B	P800AIG
E12-N055C 2RHS*PT5C	PRESSURE TRANSMITTER		SC175109	HARSH	B	P800AIH
E12-N056A 2RHS*PT6A	PRESSURE TRANSMITTER		SC175105	HARSH	B	P800AIJ
E12-N056B 2RHS*PT6B	PRESSURE TRANSMITTER		SC175109	HARSH	B	P800AIK
E12-N056C 2RHS*PT6C	PRESSURE TRANSMITTER		SC175109	HARSH	B	P800AIL

MARK NO / SHEC ID.	EQUIPMENT DESCRIPTION	REMARKS	ENV. ZONE	ENVTYP	EQUALST	QUAL REF
E12-N057 2RHS*PT111	PRESSURE TRANSMITTER		SC175105	HARSH	A	P800AIH
E12-N058A 2RHS*PDT24A	DIFF PRESSURE TRANSM		SC261145	HARSH	B	P800AIN
E12-N058B 2RHS*PDT24B	DIFF PRESSURE TRANSM		SC261145	HARSH	B	P800AIO
E12-N058C 2RHS*PDT24C	DIFF PRESSURE TRANSM		SC261145	HARSH	B	P800AIP
E12-N060A 2RHS*PDT18A	DIFF PRESSURE TRANS		SC175105	HARSH	A	P800AIQ
E12-N060B 2RHS*PDT18B	DIFF PRESSURE TRANSM		SC175109	HARSH	A	P800AIR
E12-N062B 2RHS*PT133	PRESSURE TRANSMITTER		SC175102	HARSH		P800AIS
E12-N063A 2RHS*PT3A	PRESSURE TRANSMITTER		SC175102	HARSH		P800AIT
E12-N063B 2RHS*PT3B	PRESSURE TRANSMITTER		SC175111	HARSH		P800AIU
E12-N063C 2RHS*PT3C	PRESSURE TRANSMITTER		SC175111	HARSH		P800AIV
E21-C001 2CSL*P1	LPCS MOTOR		ABN17503	HARSH	A	P800AIW
E21-N003 2CSL*FT126	FLOW TRANSMITTER		SC175102	HARSH	B	P800AIX
E21-N050 2CSL*PDT132	DIFF PRESSURE TRANSM		SC175102	HARSH	B	P800AIY
E21-N051 2CSL*FT107	FLOW TRANSMITTER	RG 1.97	SC175102	HARSH	B	P800AIZ
E21-N052 2CSL*PT109	PRESSURE TRANSMITTER		SC175102	HARSH	B	P800AJA

NMP2-ENVIRONMENTAL QUALIFICATION DATA MASTER LIST (NSSS)
SORTED BY MARK NUMBER

MARK NO / SHEC ID.	EQUIPMENT DESCRIPTION	REMARKS	ENV. ZONE	ENVTYP	EQUALST	QUAL REF
E21-N053 2CSL*PT110	PRESSURE TRANSMITTER		SC175102	HARSH	B	P800AJB
E21-N054 2CSL*PT108	PRESSURE TRANSMITTER		SC175102	HARSH	A	P800AJC
E21-N056 2CSL*PT129	PRESSURE TRANSMITTER		SC175103	HARSH	A	P800AJD
E21-N057 2CSL*PT130	PRESSURE TRANSMITTER		SC175103	HARSH	A	P800AJE
E22-C001 2CSH*P1	HPCS MOTOR		SC175108	HARSH	A	P800AJF
E22-F001 2CSH*MOV101	HPCS MTR OPER VALVE		SC175109	HARSH	C	P800AJG
E22-F004 2CSH*MOV107	HPCS MTR OPER VALVE	RG 1.97	SC289160	HARSH	C	P800AJH
E22-F010 2CSH*MOV110	HPCS MTR OPER VALVE		SC196116	HARSH	C	P800AJJ
E22-F011 2CSH*MOV112	HPCS MTR OPER VALVE		SC196116	HARSH	C	P800AJK
E22-F012 2CSH*MOV105	HPCS MTR OPER VALVE	RG 1.97	SC215122	HARSH	C	P800AJL
E22-F015 2CSH*MOV118	HPCS MTR OPER VALVE	RG 1.97	SC196116	HARSH	C	P800AJM
E22-F023 2CSH*MOV111	HPCS MTR OPER VALVE	RG 1.97	SC215122	HARSH	C	P800AJN
E22-N005 2CSH*FT104	FLOW TRANSMITTER		SC175105	HARSH	B	P800AJO
E22-N050 2CSH*PT117	PRESSURE TRANSMITTER		SC175105	HARSH	A	P800AJR
E22-N051 2CSH*PT105	PRESSURE TRANSMITTER		SC175105	HARSH	B	P800AJS

MARK NO / SHEC ID.	EQUIPMENT DESCRIPTION	REMARKS	ENV. ZONE	ENVTYP	EQUALST	QUAL REF
E22-N052 2CSH*PT102	PRESSURE TRANSMITTER		SC175105	HARSH	A	P800AJT
E22-N054C 2CSH*LT3A	LEVEL TRANSMITTER		PIPE TUNN	HARSH	B	P800AJU
E22-N054G 2CSH*LT3B	LEVEL TRANSMITTER		PIPE TUNN	HARSH	B	P800AJV
E22-N055C 2CSH*LT124	LEVEL TRANSMITTER		SC175105	HARSH	B	P800AJH
E22-N055G 2CSH*LT123	LEVEL TRANSMITTER		SC175105	HARSH	B	P800AJX
E22-N056 2CSH*FT105	FLOW TRANSMITTER	RG 1.97	SC175105	HARSH	B	P800AJY
E22-N057 2CSH*PDT109	DIFF PRESSURE TRANSM		SC175105	HARSH	A	P800AJZ
E31-N001A 2HCS*TE35A	TEMPERATURE ELEMENT		SC215127	HARSH	A	P800AKA
E31-N001B 2HCS*TE35B	TEMPERATURE ELEMENT		SC215127	HARSH	A	P800AKB
E31-N001C 2HCS*TE35C	TEMPERATURE ELEMENT		SC215128	HARSH	A	P800AKC
E31-N001D 2HCS*TE35D	TEMPERATURE ELEMENT		SC215128	HARSH	A	P800AKD
E31-N001E 2HCS*TE35E	TEMPERATURE ELEMENT		SC306176	HARSH	A	P800AKE
E31-N001F 2HCS*TE35F	TEMPERATURE ELEMENT		SC306176	HARSH	A	P800AKF
E31-N002A 2HCS*TE34A	TEMPERATURE ELEMENT		SC215127	HARSH	A	P800AKG
E31-N002B 2HCS*TE34B	TEMPERATURE ELEMENT		SC215127	HARSH	B	P800AKH

MARK NO / SHEC ID.	EQUIPMENT DESCRIPTION	REMARKS	ENV. ZONE	ENVTYP	EQUALST	QUAL REF
E31-N002C 2HCS*TE34C	TEMPERATURE ELEMENT		SC215128	HARSH	A	P800AKJ
E31-N002D 2HCS*TE34D	TEMPERATURE ELEMENT		SC215128	HARSH	A	P800AKK
E31-N002E 2HCS*TE34E	TEMPERATURE ELEMENT		SC306176	HARSH	A	P800AKL
E31-N002F 2HCS*TE34F	TEMPERATURE ELEMENT		SC306176	HARSH	A	P800AKM
E31-N003A 2HCS*TE33A	TEMPERATURE ELEMENT		SC215127	HARSH	A	P800AKN
E31-N003B 2HCS*TE33B	TEMPERATURE ELEMENT		SC215127	HARSH	A	P800AKO
E31-N003C 2HCS*TE33C	TEMPERATURE ELEMENT		SC215128	HARSH	A	P800AKP
E31-N003D 2HCS*TE33D	TEMPERATURE ELEMENT		SC215128	HARSH	A	P800AKQ
E31-N003E 2HCS*TE33E	TEMPERATURE ELEMENT		SC306176	HARSH	A	P800AKR
E31-N003F 2HCS*TE33F	TEMPERATURE ELEMENT		SC306176	HARSH	A	P800AKS
E31-N004A 2ICS*TE16A	TEMPERATURE ELEMENT		SC175106	HARSH	A	P800AKT
E31-N004B 2ICS*TE16B	TEMPERATURE ELEMENT		SC175106	HARSH	A	P800AKU
E31-N005A 2ICS*TE15A	TEMPERATURE ELEMENT		SC175106	HARSH	A	P800AKV
E31-N005B 2ICS*TE15B	TEMPERATURE ELEMENT		SC175106	HARSH	A	P800AKW
E31-N006A 2ICS*TE14A	TEMPERATURE ELEMENT		SC175106	HARSH	A	P800AKX

NMP2-ENVIRONMENTAL QUALIFICATION DATA MASTER LIST (NSSS)
SORTED BY MARK NUMBER

MARK NO / SWEC ID.	EQUIPMENT DESCRIPTION	REMARKS	ENV. ZONE	ENVTYP	EQUALST	QUAL REF
E31-N006B 2ICS*TE14B	TEMPERATURE ELEMENT		SC175106	HARSH	A	P800AKY
E31-N015A 2HCS*FT69X	FLOW TRANSMITTER		SC289155	HARSH	A	P800AKZ
E31-N015B 2HCS*FT69Y	FLOW TRANSMITTER		SC289155	HARSH	A	P800ALA
E31-N018A 2RHS*TE49A	TEMPERATURE ELEMENT		ABN17504	HARSH	A	P800ALF
E31-N018B 2RHS*TE49B	TEMPERATURE ELEMENT		ABN17504	HARSH	A	P800ALG
E31-N018C 2RHS*TE49C	TEMPERATURE ELEMENT		ABS17509	HARSH	A	P800ALH
E31-N018D 2RHS*TE49D	TEMPERATURE ELEMENT		ABS17509	HARSH	A	P800ALI
E31-N024A 2ICS*TE10A	TEMPERATURE ELEMENT		SC196118	HARSH	A	P800ALJ
E31-N024B 2ICS*TE10B	TEMPERATURE ELEMENT		SC196118	HARSH	A	P800ALK
E31-N025A 2ICS*TE11A	TEMPERATURE ELEMENT		SC196118	HARSH	A	P800ALL
E31-N025B 2ICS*TE11B	TEMPERATURE ELEMENT		SC196118	HARSH	A	P800ALM
E31-N026A 2ICS*TE12A	TEMPERATURE ELEMENT		SC196118	HARSH	A	P800ALN
E31-N026B 2ICS*TE12B	TEMPERATURE ELEMENT		SC196118	HARSH	A	P800ALO
E31-N027A 2RHS*TE47A	TEMPERATURE ELEMENT		ABN17504	HARSH	A	P800ALP
E31-N027B 2RHS*TE47B	TEMPERATURE ELEMENT		ABN17504	HARSH	A	P800ALQ

NMP2-ENVIRONMENTAL QUALIFICATION DATA MASTER LIST (NSSS)
SORTED BY MARK NUMBER

MARK NO / SHEC ID.	EQUIPMENT DESCRIPTION	REMARKS	ENV. ZONE	ENVTYP	EQUALST	QUAL REF
E31-N027C 2RHS*TE47C	TEMPERATURE ELEMENT		ABS17509	HARSH	A	P800ALR
E31-N027D 2RHS*TE47D	TEMPERATURE ELEMENT		ABS17509	HARSH	A	P800ALS
E31-N028A 2RHS*TE48A	TEMPERATURE ELEMENT		ABN17504	HARSH	A	P800ALT
E31-N028B 2RHS*TE48B	TEMPERATURE ELEMENT		ABN17504	HARSH	A	P800ALU
E31-N028C 2RHS*TE48C	TEMPERATURE ELEMENT		ABS17509	HARSH	A	P800ALV
E31-N028D 2RHS*TE48D	TEMPERATURE ELEMENT		ABS17509	HARSH	A	P800ALW
E31-N029A 2MSS*TE48A	TEMPERATURE ELEMENT		MST26147	HARSH	A	P800ALX
E31-N029B 2MSS*TE48B	TEMPERATURE ELEMENT		MST26147	HARSH	A	P800ALY
E31-N029C 2MSS*TE48C	TEMPERATURE ELEMENT		MST26147	HARSH	A	P800ALZ
E31-N029D 2MSS*TE48D	TEMPERATURE ELEMENT		MST26147	HARSH	A	P800AMA
E31-N030A 2MSS*TE49A	TEMPERATURE ELEMENT		SC240136	HARSH	A	P800AMB
E31-N030B 2MSS*TE49B	TEMPERATURE ELEMENT		SC240136	HARSH	A	P800AMC
E31-N030C 2MSS*TE49C	TEMPERATURE ELEMENT		SC240136	HARSH	A	P800AMD
E31-N030D 2MSS*TE49D	TEMPERATURE ELEMENT		SC240136	HARSH	A	P800AME
E31-N031A 2MSS*TE50A	TEMPERATURE ELEMENT		SC240136	HARSH	A	P800AMF

NMP2-ENVIRONMENTAL QUALIFICATION DATA MASTER LIST (NSSS)
SORTED BY MARK NUMBER

MARK NO / SHEC ID.	EQUIPMENT DESCRIPTION	REMARKS	ENV. ZONE	ENVTYP	EQUALST	QUAL REF
E31-N031B 2HSS*TE50B	TEMPERATURE ELEMENT		SC240136	HARSH	A	P800AHG
E31-N031C 2HSS*TE50C	TEMPERATURE ELEMENT		SC240136	HARSH	A	P800AHH
E31-N031D 2HSS*TE50D	TEMPERATURE ELEMENT		SC240136	HARSH	A	P800AHI
E31-N035A 2HCS*FT68X	FLOW TRANSMITTER		SC289155	HARSH	B	P800AHJ
E31-N035B 2HCS*FT68Y	FLOW TRANSMITTER		SC289155	HARSH	B	P800AHK
E31-N036A 2HCS*FT67X	FLOW TRANSMITTER		SC215122	HARSH	B	P800AHL
E31-N036B 2HCS*FT67Y	FLOW TRANSMITTER		SC215122	HARSH	B	P800APO
E31-N040A 2HSS*TE69A	TEMPERATURE ELEMENT		HST28948	HARSH	A	P800AHN
E31-N040B 2HSS*TE69B	TEMPERATURE ELEMENT		HST28948	HARSH	A	P800AHO
E31-N040C 2HSS*TE69C	TEMPERATURE ELEMENT		HST28948	HARSH	A	P800AHP
E31-N040D 2HSS*TE69D	TEMPERATURE ELEMENT		HST28948	HARSH	A	P800AHQ
E31-N041A 2HSS*TE70A	TEMPERATURE ELEMENT		HST28949	HARSH	A	P800AHR
E31-N041B 2HSS*TE70B	TEMPERATURE ELEMENT		HST28949	HARSH	A	P800AHS
E31-N041C 2HSS*TE70C	TEMPERATURE ELEMENT		HST28949	HARSH	A	P800AHT
E31-N041D 2HSS*TE70D	TEMPERATURE ELEMENT		HST28949	HARSH	A	P800AHU

NMP2-ENVIRONMENTAL QUALIFICATION DATA MASTER LIST (NSSS)
SORTED BY MARK NUMBER

MARK NO / SWEC ID.	EQUIPMENT DESCRIPTION	REMARKS	ENV. ZONE	ENVTYP	EQUALST	QUAL REF
E31-N042A 2NSS*TE71A	TEMPERATURE ELEMENT		TURB BLDG	HARSH	A	P800AHV
E31-N042B 2NSS*TE71B	TEMPERATURE ELEMENT		TURB BLDG	HARSH	A	P800AHW
E31-N042C 2NSS*TE71C	TEMPERATURE ELEMENT		TURB BLDG	HARSH	A	P800AHX
E31-N042D 2NSS*TE71D	TEMPERATURE ELEMENT		TURB BLDG	HARSH	A	P800AHY
E31-N043A 2NSS*TE72A	TEMPERATURE ELEMENT		HST26147	HARSH	A	P800AHZ
E31-N043B 2NSS*TE72B	TEMPERATURE ELEMENT		HST26147	HARSH	A	P800ANA
E31-N043C 2NSS*TE72C	TEMPERATURE ELEMENT		HST26147	HARSH	A	P800ANB
E31-N043D 2NSS*TE72D	TEMPERATURE ELEMENT		HST26147	HARSH	A	P800ANC
E31-N044A 2NSS*TE73A	TEMPERATURE ELEMENT		HST26147	HARSH	A	P800AND
E31-N044B 2NSS*TE73B	TEMPERATURE ELEMENT		HST26147	HARSH	A	P800ANE
E31-N044C 2NSS*TE73C	TEMPERATURE ELEMENT		HST26147	HARSH	A	P800ANF
E31-N044D 2NSS*TE73D	TEMPERATURE ELEMENT		HST26147	HARSH	A	P800ANG
E31-N045A 2NSS*TE74A	TEMPERATURE ELEMENT		HST28949	HARSH	A	P800ANH
E31-N045B 2NSS*TE74B	TEMPERATURE ELEMENT		HST28949	HARSH	A	P800ANI
E31-N045C 2NSS*TE74C	TEMPERATURE ELEMENT		HST28949	HARSH	A	P800ANJ

MARK NO / SHEC ID.	EQUIPMENT DESCRIPTION	REMARKS	ENV. ZONE	ENVTYP	EQUALST	QUAL REF
E31-N045D 2MSS*TE74D	TEMPERATURE ELEMENT		MST26147	HARSH	A	P800ANK
E31-N046A 2MSS*TE75A	TEMPERATURE ELEMENT		MST26147	HARSH	A	P800ANL
E31-N046B 2MSS*TE75B	TEMPERATURE ELEMENT		MST28949	HARSH	A	P800ANM
E31-N046C 2MSS*TE75C	TEMPERATURE ELEMENT		MST28949	HARSH	A	P800ANN
E31-N046D 2MSS*TE75D	TEMPERATURE ELEMENT		MST28949	HARSH	A	P800ANO
E31-N047A 2MSS*TE76A	TEMPERATURE ELEMENT		MST28949	HARSH	A	P800ANP
E31-N047B 2MSS*TE76B	TEMPERATURE ELEMENT		MST28949	HARSH	A	P800ANQ
E31-N047C 2MSS*TE76C	TEMPERATURE ELEMENT		MST28949	HARSH	A	P800ANR
E31-N047D 2MSS*TE76D	TEMPERATURE ELEMENT		MST28949	HARSH	A	P800ANS
E31-N048A 2MSS*TE77A	TEMPERATURE ELEMENT		MST28949	HARSH	A	P800ANT
E31-N048B 2MSS*TE77B	TEMPERATURE ELEMENT		MST28949	HARSH	A	P800ANU
E31-N048C 2MSS*TE77C	TEMPERATURE ELEMENT		MST28949	HARSH	A	P800ANV
E31-N048D 2MSS*TE77D	TEMPERATURE ELEMENT		MST28949	HARSH	A	P800ANW
E31-N083A 2ICS*PDT5A	DIFF PRESSURE TRANSM		SC175105	HARSH	B	P800ANX
E31-N083B 2ICS*PDT5B	DIFF PRESSURE TRANS		SC175105	HARSH	B	P800ANY

NMP2-ENVIRONMENTAL QUALIFICATION DATA MASTER LIST (NSSS)
SORTED BY MARK NUMBER

MARK NO / SHEC ID.	EQUIPMENT DESCRIPTION	REMARKS	ENV. ZONE	ENVTYP	EQUALST	QUAL REF
E31-N084A 2ICS*PDT167	DIFF PRESSURE TRANSH		SC175105	HARSH	B	P800ANZ
E31-N084B 2ICS*PDT168	DIFF PRESSURE TRANSH		SC175105	HARSH	B	P800AOA
E31-N085A 2ICS*PT167Y	PRESSURE TRANSMITTER		SC175105	HARSH	B	P800AOB
E31-N085B 2ICS*PT168Y	PRESSURE TRANSMITTER		SC175105	HARSH	B	P800AOC
E31-N085E 2ICS*PT167X	PRESSURE TRANSMITTER		SC175105	HARSH	B	P800AOD
E31-N085F 2ICS*PT168X	PRESSURE TRANSMITTER		SC175105	HARSH	B	P800AOE
E31-N086A 2HSS*FT12A	FLOW TRANSMITTER		SC215122	HARSH	B	P800AOF
E31-N086B 2HSS*FT15A	FLOW TRANSMITTER		SC215122	HARSH	B	P800AOG
E31-N086C 2HSS*FT14A	FLOW TRANSMITTER		SC215122	HARSH	B	P800AOH
E31-N086D 2HSS*FT13A	FLOW TRANSMITTER		SC215122	HARSH	B	P800AOI
E31-N087A 2HSS*FT12B	FLOW TRANSMITTER		SC215122	HARSH	B	P800AOJ
E31-N087B 2HSS*FT15B	FLOW TRANSMITTER		SC215122	HARSH	B	P800AOK
E31-N087C 2HSS*FT14B	FLOW TRANSMITTER		SC215122	HARSH	B	P800AOL
E31-N087D 2HSS*FT13B	FLOW TRANSMITTER		SC215122	HARSH	B	P800AOM
E31-N088A 2HSS*FT12C	FLOW TRANSMITTER		SC215122	HARSH	B	P800AON

NMP2-ENVIRONMENTAL QUALIFICATION DATA MASTER LIST (NSSS)
SORTED BY MARK NUMBER

MARK NO / SWEC ID.	EQUIPMENT DESCRIPTION	REMARKS	ENV. ZONE	ENVTYP	EQUALST	QUAL REF
E31-N086B 2MSS*FT15C	FLOW TRANSMITTER		SC215122	HARSH	B	P800AOP
E31-N088C 2MSS*FT14C	FLOW TRANSMITTER		SC215122	HARSH	B	P800AOQ
E31-N088D 2MSS*FT13C	FLOW TRANSMITTER		SC215122	HARSH	B	P800AOR
E31-N089A 2MSS*FT12D	FLOW TRANSMITTER		SC215122	HARSH	B	P800AOS
E31-N089B 2MSS*FT15D	FLOW TRANSMITTER		SC215122	HARSH	B	P800AOT
E31-N089C 2MSS*FT14D	FLOW TRANSMITTER		SC215122	HARSH	B	P800AOU
E31-N089D 2MSS*FT13D	FLOW TRANSMITTER		SC215122	HARSH	B	P800AOV
E31-N092 2DER-PT134	PRESSURE TRANSMITTER		SC261145	HARSH	A	P800AOW
E51-C002 2ICS*T1	RCIC TURBINE		SC175106	HARSH	B	P800AOX
E51-N003 2ICS*FT101	FLOW TRANSMITTER		SC175105	HARSH	B	P800AOY
E51-N007 2ICS*PT103	PRESSURE TRANSMITTER		SC175105	HARSH	A	P800AOZ
E51-N010 2ICS*LS132	LEVEL SWITCH		SC175106	HARSH	B	P800APA
E51-N035A 2ICS*LT3A	LEVEL TRANSMITTER		PIPE TUNN	HARSH	B	P800APB
E51-N035E 2ICS*LT3C	LEVEL TRANSMITTER		PIPE TUNN	HARSH	B	P800APC
E51-N037 2ICS*LS206	LEVEL SWITCH	RG 1.97	SC175106	HARSH	B	P800APD

MARK NO / SHEC ID.	EQUIPMENT DESCRIPTION	REMARKS	ENV. ZONE	ENVTYP	EQUALST	QUAL REF
E51-N050 2ICS*PT104	PRESSURE TRANSMITTER		SC175105	HARSH	B	P800APE
E51-N051 2ICS*FT102	FLOW TRANSMITTER		SC175105	HARSH	B	P800APF
E51-N052 2ICS*PT106	PRESSURE TRANSMITTER		SC175105	HARSH	B	P800APG
E51-N053 2ICS*PT105	PRESSURE TRANSMITTER		SC175105	HARSH	B	P800APH
E51-N055A 2ICS*PT2A	PRESSURE TRANSMITTER		SC175105	HARSH	B	P800API
E51-N055B 2ICS*PT2B	PRESSURE TRANSMITTER		SC175105	HARSH	B	P800APJ
E51-N055E 2ICS*PT2C	PRESSURE TRANSMITTER		SC175105	HARSH	B	P800APK
E51-N055F 2ICS*PT2D	PRESSURE TRANSMITTER		SC175105	HARSH	B	P800APL
E51-N056A 2ICS*PT1A	PRESSURE TRANSMITTER		SC175105	HARSH	B	P800APM
E51-N056E 2ICS*PT1B	PRESSURE TRANSMITTER		SC175105	HARSH	B	P800APN

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C001CAB____ REV 0

25-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*PNL66B
SPEC NO.: C001C
SYSTEM: CONTAINMENT ATMOSPHERE MONITORING

TYPE: (DESCRIPTION)
HYDROGEN ANALYZER

MANUFACTURER: COMSIP

MODEL NO.: K-IV

SAFETY FUNCTION: - - -
MONITOR HYDROGEN AND OXYGEN LEVELS AFTER LOCA

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABS24036
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 5
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/88	104	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	88	104	1	2	TEST_SIM	NA	
ACCIDENT	NA	150	1	2	TEST-SIM	YES	NOTE 3
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-.25"W.G.	29"Hg	1	2	TEST_SIM	NA	
ABNORMAL	-.25"W.G.	29"Hg	1	2	TEST_SIM	NA	
ACCIDENT	NA	29"Hg	1	2	TEST_SIM	YES	NOTE 3
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	50	1	2	TEST-SIM	NA	
ABNORMAL	50	50	1	2	TEST-SIM	NA	
ACCIDENT	NA	90	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	1.8E3		1			NA	
ACC GAMMA	2.2E4	1E7	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	NA		1			NA	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 07.155-5000D
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 33-2-C15

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. TEMPERATURE AND PRESSURE VALUES SHOWN ARE LOCA AMBIENT CONDITIONS AT THE SAMPLE PUMP LOCATION; TEMPERATURE AND PRESSURE VALUES SHOWN ON TEST PROFILES ARE LOCA AMBIENT CONDITIONS AT SAMPLE WITHDRAW POINT.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C001CAA____ REV 0

25-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*PNL66A
SPEC NO.: C001C
SYSTEM: CONTAINMENT ATMOSPHERE MONITORING

TYPE: (DESCRIPTION)
HYDROGEN ANALYZER

MANUFACTURER: COMSIP

MODEL NO.: K-IV

SAFETY FUNCTION: - - -
MONITOR HYDROGEN AND OXYGEN LEVELS AFTER LOCA

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABN24033
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 5
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/89	104	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	89	104	1	2	TEST_SIM	NA	
ACCIDENT	NA	150	1	2	TEST-SIM	YES	NOTE 3
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"W.G.	29"Hg	1	2	TEST_SIM	NA	
ABNORMAL	-.25"W.G.	29"Hg	1	2	TEST_SIM	NA	
ACCIDENT	NA	29"Hg	1	2	TEST_SIM	YES	NOTE 3
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	50	1	2	TEST-SIM	NA	
ABNORMAL	50	50	1	2	TEST-SIM	NA	
ACCIDENT	NA	90	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.8E3		1			NA	
ACC GAMMA	2.2E4	1E7	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	NA		1			NA	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 07.155-5000D
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 33-2-C15

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. TEMPERATURE AND PRESSURE VALUES SHOWN ARE LOCA AMBIENT CONDITIONS AT THE SAMPLE PUMP LOCATION; TEMPERATURE AND PRESSURE VALUES SHOWN ON TEST PROFILES ARE LOCA AMBIENT CONDITIONS AT SAMPLE WITHDRAW POINT.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C021LAA____ REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2DFR*LS3A
SPEC NO.: C021L
SYSTEM: REACTOR BUILDING FLOOR DRAINS SYSTEM
TYPE: (DESCRIPTION)
LEVEL SWITCH

MANUFACTURER: MAGNETROL

MODEL NO.: FLS-MPX-S1MD4

SAFETY FUNCTION: - - -
2RHS*E1A CUBICLE FLOOD ALM

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABN17505
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 11
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	6 HRS	180	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/87	110	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	104	110	1	2,4	TEST-SIM	NA	
ACCIDENT	175	281	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25" WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25" WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.1E6		1			NA	
ACC GAMMA	5.4E7	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 07.124-5000E
3. POST-ACCIDENT OPERABILITY PERIOD: FILE NO. 23-6-C1
4. CALCULATION NO. 12177-EQS-033

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL SPECIFIED TEMP ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C021LAB____ REV 0

14-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2DFR*LS3B
SPEC NO.: C021L
SYSTEM: REACTOR BUILDING FLOOR DRAINS SYSTEM
TYPE: (DESCRIPTION)
LEVEL SWITCH

MANUFACTURER: MAGNETROL

MODEL NO.: FLS-MPX-S1MD4

SAFETY FUNCTION: - - -
2RHS*E1A CUBICLE FLOOD ALM

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABS17510
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 11
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	6 HRS	180	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/89	110	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	107	110	1	2,4	TEST-SIM	NA	
ACCIDENT	175	281	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.1E6		1			NA	
ACC GAMMA	5.1E7	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.4E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 07.124-5000E
3. POST-ACCIDENT OPERABILITY PERIOD: FILE NO. 23-6-C1
4. CALCULATION NO. 12177-EQS-033

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL SPECIFIED TEMP ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C021LAC____ REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2DFR*LS143
SPEC NO.: C021L
SYSTEM: REACTOR BUILDING FLOOR DRAINS SYSTEM
TYPE: (DESCRIPTION)
LEVEL SWITCH

MANUFACTURER: MAGNETROL

MODEL NO.: FLS-MPX-S1MD4

SAFETY FUNCTION: - - -
RHS B PMP RM FLD WTR LVL ALM.

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABS17509
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 11
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	6 HRS	180	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	110	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	97	110	1	2,4	TEST-SIM	NA	
ACCIDENT	175	281	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	8.4E5		1			NA	
ACC GAMMA	6.5E7	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.4E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 07.124-5000E
3. POST-ACCIDENT OPERABILITY PERIOD: FILE NO. 23-6-C2
4. CALCULATION NO. 12177-EQS-033

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL SPECIFIED TEMP ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C021LAD____ REV 0

14-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2DFR*LS144
SPEC NO.: C021L
SYSTEM: REACTOR BUILDING FLOOR DRAINS SYSTEM
TYPE: (DESCRIPTION)
LEVEL SWITCH

MANUFACTURER: MAGNETROL

MODEL NO.: FLS-MPX-S1MD4

SAFETY FUNCTION: - - -
RHS C PMP RM FLD WTR LVL ALM

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABS17508
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 11
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	6 HRS	180	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	110	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	97	110	1	2,4	TEST-SIM	NA	
ACCIDENT	175	281	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	3.3E5		1			NA	
ACC GAMMA	5.7E7	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.4E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 07.124-5000E
3. POST-ACCIDENT OPERABILITY PERIOD: FILE NO. 23-6-C2
4. CALCULATION NO. 12177-EQS-033

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL SPECIFIED TEMP ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C021LAE____ REV 0

14-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2DFR*LS145
SPEC NO.: C021L
SYSTEM: REACTOR BUILDING FLOOR DRAINS SYSTEM
TYPE: (DESCRIPTION)
LEVEL SWITCH

MANUFACTURER: MAGNETROL

MODEL NO.: FLS-MPX-S1MD4

SAFETY FUNCTION: - - -
ICS PMP RM FLOOD WATER LEVEL ALARM

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC175106
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 11
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	6 HRS	180	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	110	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	86	110	1	2,4	TEST-SIM	NA	
ACCIDENT	325	281	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	3.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	2.4E4		1			NA	
ACC GAMMA	2E7	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 07.124-5000E
3. POST-ACCIDENT OPERABILITY PERIOD: FILE NO. 23-6-C3
4. CALCULATION NO. 12177-EQS-033

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL SPECIFIED TEMP ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C021LAF____ REV 0

14-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2DFR*LS146
SPEC NO.: C021L
SYSTEM: REACTOR BUILDING FLOOR DRAINS SYSTEM
TYPE: (DESCRIPTION)
LEVEL SWITCH

MANUFACTURER: MAGNETROL

MODEL NO.: FLS-MPX-S1MD4

SAFETY FUNCTION: - - -
CSH PMP RM FLD WTR LVL ALM

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC175108
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 11
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	6 HRS	180	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	110	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	102	110	1	2,4	TEST-SIM	NA	
ACCIDENT	175	281	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.8E3		1			NA	
ACC GAMMA	4.6E7	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 07.124-5000E
3. POST-ACCIDENT OPERABILITY PERIOD: FILE NO. 23-6-C3
4. CALCULATION NO. 12177-EQS-033

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL SPECIFIED TEMP ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C021LAG____ REV 0

14-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2DFR*LS147
SPEC NO.: C021L
SYSTEM: REACTOR BUILDING FLOOR DRAINS SYSTEM
TYPE: (DESCRIPTION)
LEVEL SWITCH

MANUFACTURER: MAGNETROL

MODEL NO.: FLS-MPX-S1MD4

SAFETY FUNCTION: - - -
CSL PMP RM FLD WTR LVL ALM

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABN17503
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 11
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	6 HRS	180	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	110	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	95	110	1	2,4	TEST-SIM	NA	
ACCIDENT	175	281	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25" WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25" WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	2.6E5		1			NA	
ACC GAMMA	6.2E7	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.4E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 07.124-5000E
3. POST-ACCIDENT OPERABILITY PERIOD: FILE NO. 23-6-C3
4. CALCULATION NO. 12177-EQS-033

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL SPECIFIED TEMP ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C021LAH____ REV 0

14-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2DFR*LS148
SPEC NO.: C021L
SYSTEM: REACTOR BUILDING FLOOR DRAINS SYSTEM
TYPE: (DESCRIPTION)
LEVEL SWITCH

MANUFACTURER: MAGNETROL

MODEL NO.: FLS-MPX-S1MD4

SAFETY FUNCTION: - - -
RHS A PMP RM FLD WTR LVL ALM

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABN17504
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 11
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	6 HRS	180	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	110	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	99	110	1	2,4	TEST-SIM	NA	
ACCIDENT	175	281	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25" WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25" WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	8.4E5		1			NA	
ACC GAMMA	8.9E7	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.4E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 07.124-5000E
3. POST-ACCIDENT OPERABILITY PERIOD: FILE NO. 23-6-C4
4. CALCULATION NO. 12177-EQS-033

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL SPECIFIED TEMP ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C021LAI____ REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SFC*LS33A
SPEC NO.: C021L
SYSTEM: REACTOR BUILDING FLOOR DRAINS SYSTEM
TYPE: (DESCRIPTION)
LEVEL SWITCH

MANUFACTURER: MAGNETROL

MODEL NO.: 291-MP-S1MD4

SAFETY FUNCTION: - - -
SKIMMER SURGE TANK LVL ALM

OP. CODE: A

ACCURACY - -
SPEC: +/-0.25" WG
DEMO: +/-0.25" WG

ZONE NO.: SC328193
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 11
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	180	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/98	110	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	197	197	1	2,4	AN + DATA	NA	
ACCIDENT	175	281	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	2.2E6		1			NA	
ACC GAMMA	2.6E6	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 07.124-5000E
3. POST-ACCIDENT OPERABILITY PERIOD: FILE NO. 34-2-C5
4. CALCULATION NO. 12177-EQS-033

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL SPECIFIED TEMP ARE SHOWN AS MAX DESIGN/AVERAGE.
3. LEVEL SWITCH IS QUALIFIED FOR 11 YEARS AT 110F AND DURING LOCA FOR 281F; THEREFORE, ABNORMAL TEMP OF 197F WILL NOT HAVE ANY DETRIMENTAL EFFECT ON THE SWITCH.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C021LAJ____ REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SFC*LS33B
SPEC NO.: C021L
SYSTEM: REACTOR BUILDING FLOOR DRAINS SYSTEM
TYPE: (DESCRIPTION)
LEVEL SWITCH

MANUFACTURER: MAGNETROL

MODEL NO.: 291-MP-S1MD4

SAFETY FUNCTION: - - -
SKIMMER SURGE TANK LVL ALM

OP. CODE: A

ACCURACY - -
SPEC: +/-0.25
DEMO: +/-0.25

ZONE NO.: SC328187
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 11
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	180	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/89	110	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	133	133	1	2,4	AN + DATA	NA	
ACCIDENT	175	281	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.8E3		1			NA	
ACC GAMMA	2.6E6	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 07.124-5000E
3. POST-ACCIDENT OPERABILITY PERIOD: FILE NO. 34-2-C5
4. CALCULATION NO. 12177-EQS-033

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL SPECIFIED TEMP ARE SHOWN AS MAX DESIGN/AVERAGE.
3. LEVEL SWITCH IS QUALIFIED FOR 11 YEARS AT 110F AND DURING LOCA FOR 281F; THEREFORE, ABNORMAL TEMP OF 133F WILL NOT HAVE ANY DETRIMENTAL EFFECT ON THE SWITCH.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C021LAK____ REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SFC*LS33C
SPEC NO.: C021L
SYSTEM: REACTOR BUILDING FLOOR DRAINS SYSTEM
TYPE: (DESCRIPTION)
LEVEL SWITCH

MANUFACTURER: MAGNETROL

MODEL NO.: 291-MP-S1MD4

SAFETY FUNCTION: - - -
SKIMMER SURGE TANK LVL ALM

OP. CODE: A

ACCURACY - -
SPEC: +/-0.25
DEMO: +/-0.25

ZONE NO.: SC328193
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -.
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 11
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	180	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/98	110	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	197	197	1	2,4	AN + DATA	NA	
ACCIDENT	175	281	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	2.2E6		1			NA	
ACC GAMMA	2.6E6	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 07.124-5000E
3. POST-ACCIDENT OPERABILITY PERIOD: FILE NO. 34-2-C5
4. CALCULATION NO. 12177-EQS-033

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL SPECIFIED TEMP ARE SHOWN AS MAX DESIGN/AVERAGE.
3. LEVEL SWITCH IS QUALIFIED FOR 11 YEARS AT 110F AND DURING LOCA FOR 281F; THEREFORE, ABNORMAL TEMP OF 197F WILL NOT HAVE ANY DETRIMENTAL EFFECT ON THE SWITCH.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C021LAL____ REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SFC*LS33D
SPEC NO.: C021L
SYSTEM: REACTOR BUILDING FLOOR DRAINS SYSTEM
TYPE: (DESCRIPTION)
LEVEL SWITCH

MANUFACTURER: MAGNETROL

MODEL NO.: 291-MP-S1MD4

SAFETY FUNCTION: - - -
SKIMMER SURGE TANK LVL ALM

OP. CODE: A

ACCURACY - -
SPEC: +/-0.25
DEMO: +/-0.25

ZONE NO.: SC328187
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 11
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	180	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/89	110	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	133	133	1	2,4	AN + DATA	NA	
ACCIDENT	175	281	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.8E3		1			NA	
ACC GAMMA	2.6E6	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 07.124-5000E
3. POST-ACCIDENT OPERABILITY PERIOD: FILE NO. 34-2-C5
4. CALCULATION NO. 12177-EQS-033

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL SPECIFIED TEMP ARE SHOWN AS MAX DESIGN/AVERAGE.
3. LEVEL SWITCH IS QUALIFIED FOR 11 YEARS AT 110F AND DURING LOCA FOR 281F; THEREFORE, ABNORMAL TEMP OF 133F WILL NOT HAVE ANY DETRIMENTAL EFFECT ON THE SWITCH.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C021LAM____ REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SFC*LS34A
SPEC NO.: C021L
SYSTEM: REACTOR BUILDING FLOOR DRAINS SYSTEM
TYPE: (DESCRIPTION)
LEVEL SWITCH

MANUFACTURER: MAGNETROL

MODEL NO.: 291-MP-S1MD4

SAFETY FUNCTION: - - -
SFC SKIMMER SURGE TNK LVL ALM

OP. CODE: B

ACCURACY - -
SPEC: +/-0.25
DEMO: +/-0.25

ZONE NO.: SC328193
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 11
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	180	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/98	110	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	197	197	1	2,4	AN + DATA	NA	
ACCIDENT	175	281	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	2.2E6		1			NA	
ACC GAMMA	2.6E6	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 07.124-5000E
3. POST-ACCIDENT OPERABILITY PERIOD: FILE NO. 34-2-C5
4. CALCULATION NO. 12177-EQS-033

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL SPECIFIED TEMP ARE SHOWN AS MAX DESIGN/AVERAGE.
3. LEVEL SWITCH IS QUALIFIED FOR 11 YEARS AT 110F AND DURING LOCA FOR 281F, THEREFORE ABNORMAL TEMP OF 197F WILL NOT HAVE ANY DETRIMENTAL EFFECT ON THE SWITCH.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C021LAN____ REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SFC*LS34B
SPEC NO.: C021L
SYSTEM: REACTOR BUILDING FLOOR DRAINS SYSTEM
TYPE: (DESCRIPTION)
LEVEL SWITCH

MANUFACTURER: MAGNETROL

MODEL NO.: 291-MP-S1MD4

SAFETY FUNCTION: - - -

ALM

OP. CODE: B

ACCURACY - -
SPEC: +/-0.25
DEMO: +/-0.25

ZONE NO.: SC328187
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY: ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 11
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	180	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/89	110	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	133	133	1	2,4	AN + DATA	NA	
ACCIDENT	175	281	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.8E3		1			NA	
ACC GAMMA	2.6E6	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 07.124-5000E
3. POST-ACCIDENT OPERABILITY PERIOD: FILE NO. 34-2-C4
4. CALCULATION NO. 12177-EQS-033

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL SPECIFIED TEMP ARE SHOWN AS MAX DESIGN/AVERAGE.
3. LEVEL SWITCH IS QUALIFIED FOR 11 YEARS AT 110F AND DURING LOCA FOR 281F; THEREFORE, ABNORMAL TEMP OF 133F WILL NOT HAVE ANY DETRIMENTAL EFFECT ON THE SWITCH.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C021LA0____ REV 0

14-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SFC*LS55A
SPEC NO.: C021L
SYSTEM: REACTOR BUILDING FLOOR DRAINS SYSTEM
TYPE: (DESCRIPTION)
LEVEL SWITCH

MANUFACTURER: MAGNETROL

MODEL NO.:
A-153-X-EP/VP-Y-SIMD4
SAFETY FUNCTION: - - -
SPENT FUEL POOL WTR LOW LVL ALM

OP. CODE: B

ACCURACY - -
SPEC: +/-0.25
DEMO: +/-0.25

ZONE NO.: SC353202
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 11
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	180	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/77	110	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	79	110	1	2,4	AN + DATA	NA	
ACCIDENT	175	281	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	.25	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	7E5		1			NA	
ACC GAMMA	2.6E6	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 07.124-5000E
3. POST-ACCIDENT OPERABILITY PERIOD: FILE NO. 34-2-C4
4. CALCULATION NO. 12177-EQS-033

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL SPECIFIED TEMP ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C021LAP____ REV 0

14-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SFC*LS55B
SPEC NO.: C021L
SYSTEM: REACTOR BUILDING FLOOR DRAINS SYSTEM
TYPE: (DESCRIPTION)
LEVEL SWITCH

MANUFACTURER: MAGNETROL

MODEL NO.:
A-153-X-EP/VP-Y-SIMD4
SAFETY FUNCTION: - - -
SPENT FUEL POOL WTR LOW LVL ALM

OP. CODE: B

ACCURACY - -
SPEC: +/-0.25
DEMO: +/-0.25

ZONE NO.: SC353202
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 11
REFERENCE: 2.4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	180	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/77	110	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	79	110	1	2,4	AN + DATA	NA	
ACCIDENT	175	281	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	.25	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	7E5		1			NA	
ACC GAMMA	2.6E6	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 07.124-5000E
3. POST-ACCIDENT OPERABILITY PERIOD: FILE NO. 34-2-C4
4. CALCULATION NO. 12177-EQS-033

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL SPECIFIED TEMP ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DAA____ REV 0

11-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE50A
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.:122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196113
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.1E6		1			NA	
ACC GAMMA	2.6E6	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DAB____ REV 0

11-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE50B
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196113
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.1E6		1			NA	
ACC GAMMA	2.6E6	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DAC____ REV 0

11-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE50C
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196113
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.1E6		1			NA	
ACC GAMMA	2.6E6	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DAD____ REV 0

11-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE50D
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.:122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196113
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	1.1E6		1			NA	
ACC GAMMA	2.6E6	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DAE____ REV 0

11-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE51A
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.:122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196113
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.1E6		1			NA	
ACC GAMMA	2.6E6	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DAF____ REV 0

11-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE51B
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196113
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	1.1E6		1			NA	
ACC GAMMA	2.6E6	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DAG____ REV 0

11-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE51C
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196113
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.1E6		1			NA	
ACC GAMMA	2.6E6	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DAH____ REV 0

11-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE51D
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.:122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196113
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.1E6		1			NA	
ACC GAMMA	2.6E6	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DAI____ REV 0

11-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE52A
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196113
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.1E6		1			NA	
ACC GAMMA	2.6E6	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DAJ____ REV 0

11-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE52B
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.:122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196113
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	1.1E6		1			NA	
ACC GAMMA	2.6E6	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F. THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DAK____ REV 0

11-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE52C
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.:122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196113
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	1.1E6		1			NA	
ACC GAMMA	2.6E6	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DAL____ REV 0

11-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE52D
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196113
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	1.1E6		1			NA	
ACC GAMMA	2.6E6	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DAM____ REV 0

11-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE53A
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.:122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196116
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	6.1E6		1			NA	
ACC GAMMA	5.4E7	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DAN____ REV 0

11-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE53B
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196116
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	6.1E6		1			NA	
ACC GAMMA	5.4E7	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DAO__ REV 0

13-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE53C
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196116
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2.4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	6.1E6		1			NA	
ACC GAMMA	5.4E7	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DAP____ REV 0

13-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE53D
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.:122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196116
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	6.1E6		1			NA	
ACC GAMMA	5.4E7	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS. SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DAQ____ REV 0

25-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TES4A
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196116
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - -	NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - -	NOTE 1
NORM GAMMA	6.1E6		1			NA	
ACC GAMMA	5.4E7	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DAR____ REV 0

13-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE54B
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.:122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196116
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	6.1E6		1			NA	
ACC GAMMA	5.4E7	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DAS____ REV 0

13-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE54C
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196116
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	6.1E6		1			NA	
ACC GAMMA	5.4E7	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2. 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DAT____ REV 0

13-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE54D
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196116
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	6.1E6		1			NA	
ACC GAMMA	5.4E7	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DAU____ REV 0

13-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE55A
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196116
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	6.1E6		1			NA	
ACC GAMMA	5.4E7	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT. SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED. IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DAV____ REV 0

13-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE55B
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.:122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196116
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	6.1E6		1			NA	
ACC GAMMA	5.4E7	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DAW____ REV 0

13-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE55C
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.:122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196116
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	6.1E6		1			NA	
ACC GAMMA	5.4E7	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

QUAL REF #_C041DAX____ REV 0

SYSTEM COMPONENT EVALUATION WORK SHEET

13-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE55D
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196116
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	6.1E6		1			NA	
ACC GAMMA	5.4E7	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED. IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DAY____ REV 0

13-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE56A
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196116
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2.4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	6.1E6		1			NA	
ACC GAMMA	5.4E7	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DAZ____ REV 0

13-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE56B
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196116
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2.4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	6.1E6		1			NA	
ACC GAMMA	5.4E7	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DBA____ REV 0

13-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE56C
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.:122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196116
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	6.1E6		1			NA	
ACC GAMMA	5.4E7	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

QUAL REF #_C041DBB____ REV 0

SYSTEM COMPONENT EVALUATION WORK SHEET

13-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE56D
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.:122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196116
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2.4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	6.1E6		1			NA	
ACC GAMMA	5.4E7	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DBC____ REV 0

13-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE57A
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196116
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	6.1E6		1			NA	
ACC GAMMA	5.4E7	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DBD____ REV 0

13-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE57B
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196116
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	6.1E6		1			NA	
ACC GAMMA	5.4E7	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

QUAL REF #_C041DBE____ REV 0

SYSTEM COMPONENT EVALUATION WORK SHEET

13-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TES7C
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196116
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	6.1E6		1			NA	
ACC GAMMA	5.4E7	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DBF____ REV 0

13-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE57D
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196116
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	6.1E6		1			NA	
ACC GAMMA	5.4E7	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DBG____ REV 0

13-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE58A
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196113
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.1E6		1			NA	
ACC GAMMA	2.6E6	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DBH____ REV 0

13-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE58B
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196113
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.1E6		1			NA	
ACC GAMMA	2.6E6	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DBI____ REV 0

16-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE58C
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196113
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.1E6		1			NA	
ACC GAMMA	2.6E6	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F. THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DBJ____ REV 0

16-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE58D
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196113
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	1.1E6		1			NA	
ACC GAMMA	2.6E6	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DBK____ REV 0

16-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE59A
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.:122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196113
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.1E6		1			NA	
ACC GAMMA	2.6E6	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DBL____ REV 0

16-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE59B
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196113
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	1.1E6		1			NA	
ACC GAMMA	2.6E6	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DBM____ REV 0

25-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE59C
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.:122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196113
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.1E6		1			NA	
ACC GAMMA	.2.6E6	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DBN____ REV 0

16-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE59D
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
NA

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC196113
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	190	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.1E6		1			NA	
ACC GAMMA	2.6E6	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DBO____ REV 0

18-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE67A
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-7039-314

SAFETY FUNCTION: - - -
MONITOR SUPPRESSION POOL WATER TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: +/-1.2F (NOTE 5)
DEMO: +/-1.2F

ZONE NO.: PC215121
SUBMERGENCE: YES
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	150/135	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	190	190	1	2,4	TEST-SIM	NA	
ACCIDENT	270	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	.5 TO 1.0	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	40	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	90	100	1	2	TEST-SIM	NA	
ABNORMAL	100	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA							
ACC GAMMA	5.5E7	2.2E8	4	2	TEST-SIM	YES	NOTE 6
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-SIM	NA	
SUBMERGENCE	<2 SEC	10 SEC	1	2,4	AN + DATA	NA	NOTE 7

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C9
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES: (CONT.)

6. COMBINED RADIATION FOR GAMMA, BETA AND NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION IS 5.5E7 RADS.

7. THE RTD THERMOWELL IS ALWAYS SUBMERGED TO MEASURE SUPPRESSION POOL WATER TEMPERATURE. THE RTD TERMINATION HEAD COVER IS SUBJECTED TO SUBMERGENCE FOR ONLY 2 SECONDS.

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DBP____ REV 0

18-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE67B
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.:122-7039-314

SAFETY FUNCTION: - - -
MONITOR SUPPRESSION POOL WATER TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: +/-1.2F (NOTE 5)
DEMO: +/-1.2F

ZONE NO.: PC215121
SUBMERGENCE: YES
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	150/135	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	190	190	1	2,4	TEST-SIM	NA	
ACCIDENT	270	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	.5 TO 1.0	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	40	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	90	100	1	2	TEST-SIM	NA	
ABNORMAL	100	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA							
ACC GAMMA	5.5E7	2.2E8	4	2	TEST-SIM	YES	NOTE 6
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-SIM	NA	
SUBMERGENCE	<2 SEC	10 SEC	1	2,4	AN + DATA	NA	NOTE 7

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C9
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES: (CONT.)

6. COMBINED RADIATION FOR GAMMA, BETA AND NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION IS 5.5E7 RADS.

7. THE RTD THERMOWELL IS ALWAYS SUBMERGED TO MEASURE SUPPRESSION POOL WATER TEMPERATURE. THE RTD TERMINATION HEAD COVER IS SUBJECTED TO SUBMERGENCE FOR ONLY .2 SECONDS.

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DBQ____ REV 0

18-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE68A
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-7039-314

SAFETY FUNCTION: - - -
MONITOR SUPPRESSION POOL WATER TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: +/-1.2F (NOTE 5)
DEMO: +/-1.2F

ZONE NO.: PC215121
SUBMERGENCE: YES
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	150/135	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	190	190	1	2,4	TEST-SIM	NA	
ACCIDENT	270	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	.5 TO 1.0	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	40	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	90	100	1	2	TEST-SIM	NA	
ABNORMAL	100	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA							
ACC GAMMA	5.5E7	2.2E8	4	2	TEST-SIM	YES	NOTE 6
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-SIM	NA	
SUBMERGENCE	<2 SEC	10 SEC	1	2,4	AN + DATA	NA	NOTE 7

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C9
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES: (CONT.)

6. COMBINED RADIATION FOR GAMMA, BETA AND NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION IS 5.5E7 RADS.

7. THE RTD THERMOWELL IS ALWAYS SUBMERGED TO MEASURE SUPPRESSION POOL WATER TEMPERATURE. THE RTD TERMINATION HEAD COVER IS SUBJECTED TO SUBMERGENCE FOR ONLY 2 SECONDS.

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DBR____ REV 0

16-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE68B
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-7039-314

SAFETY FUNCTION: - - -
MONITOR SUPPRESSION POOL WATER TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: +/-1.2F (NOTE 5)
DEMO: +/-1.2F

ZONE NO.: PC215121
SUBMERGENCE: YES
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	150/135	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	190	190	1	2,4	TEST-SIM	NA	
ACCIDENT	270	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	.5 TO 1.0	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	40	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	90	100	1	2	TEST-SIM	NA	
ABNORMAL	100	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA							
ACC GAMMA	5.5E7	2.2E8	4	2	TEST-SIM	YES	NOTE 6
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-SIM	NA	
SUBMERGENCE	<2 SEC	10 SEC	1	2,4	AN + DATA	NA	NOTE 7

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C9
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES: (CONT.)

6. COMBINED RADIATION FOR GAMMA, BETA AND NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION IS 5.5E7 RADS.

7. THE RTD THERMOWELL IS ALWAYS SUBMERGED TO MEASURE SUPPRESSION POOL WATER TEMPERATURE. THE RTD TERMINATION HEAD COVER IS SUBJECTED TO SUBMERGENCE FOR ONLY 2 SECONDS.

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DBS____ REV 0

16-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE69A
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.:122-7039-314

SAFETY FUNCTION: - - -
MONITOR SUPPRESSION POOL WATER TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: +/-1.2F (NOTE 5)
DEMO: +/-1.2F

ZONE NO.: PC215121
SUBMERGENCE: YES
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	150/135	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	190	190	1	2,4	TEST-SIM	NA	
ACCIDENT	270	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	.5 TO 1.0	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	40	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	90	100	1	2	TEST-SIM	NA	
ABNORMAL	100	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA							
ACC GAMMA	5.5E7	2.2E8	4	2	TEST-SIM	YES	NOTE 6
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-SIM	NA	
SUBMERGENCE	<2 SEC	10 SEC	1	2,4	AN + DATA	NA	NOTE 7

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C9
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES: (CONT.)
6. COMBINED RADIATION FOR GAMMA, BETA AND NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION IS 5.5E7 RADS.
7. THE RTD THERMOWELL IS ALWAYS SUBMERGED TO MEASURE SUPPRESSION POOL WATER TEMPERATURE. THE RTD TERMINATION HEAD COVER IS SUBJECTED TO SUBMERGENCE FOR ONLY 2 SECONDS.

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DBT____ REV 0

16-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE69B
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-7039-314

SAFETY FUNCTION: - - -
MONITOR SUPPRESSION POOL WATER TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: +/-1.2F (NOTE 5)
DEMO: +/-1.2F

ZONE NO.: PC215121
SUBMERGENCE: YES
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	150/135	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	190	190	1	2,4	TEST-SIM	NA	
ACCIDENT	270	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	.5 TO 1.0	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	40	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	90	100	1	2	TEST-SIM	NA	
ABNORMAL	100	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA							
ACC GAMMA	5.5E7	2.2E8	4	2	TEST-SIM	YES	NOTE 6
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-SIM	NA	
SUBMERGENCE	<2 SEC	10 SEC	1	2,4	AN + DATA	NA	NOTE 7

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C9
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES: (CONT.)
6. COMBINED RADIATION FOR GAMMA, BETA AND NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION IS 5.5E7 RADS.

7. THE RTD THERMOWELL IS ALWAYS SUBMERGED TO MEASURE SUPPRESSION POOL WATER TEMPERATURE. THE RTD TERMINATION HEAD COVER IS SUBJECTED TO SUBMERGENCE FOR ONLY 2 SECONDS.

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DBU____ REV 0

16-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE70A
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-7039-314

SAFETY FUNCTION: - - -
MONITOR SUPPRESSION POOL WATER TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: +/-1.2F (NOTE 5)
DEMO: +/-1.2F

ZONE NO.: SC196113
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/93	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	106	190	1	2,4	TEST-SIM	NA	
ACCIDENT	200	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100.	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	2E6		1			NA	
ACC GAMMA	3.2E7	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C9
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DBV____ REV 0

16-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE70B
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.:122-7039-314

SAFETY FUNCTION: - - -
MONITOR SUPPRESSION POOL WATER TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: +/-1.2F (NOTE 5)
DEMO: +/-1.2F

ZONE NO.: SC215122

SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/93	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	106	190	1	2,4	TEST-SIM	NA	
ACCIDENT	200	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	AN+DATA	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	2E6		1				
ACC GAMMA	3.2E7	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1				
ACC BETA	1.3E7		1				
NEUTRON	NA		1				
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	NOTE 7

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C9
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DBW____ REV 0

18-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE101
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
MONITOR SUPPRESSION POOL WATER TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: +/-1.2F (NOTE 5)
DEMO: +/-1.2F

ZONE NO.: PC306713
SUBMERGENCE: YES
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	150/135	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	190	190	1	2,4	TEST-SIM	NA	
ACCIDENT	340	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	.5 TO 1.0	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	45	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	90	100	1	2	TEST-SIM	NA	
ABNORMAL	100	100	1	2	TEST-SIM	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA							
ACC GAMMA	4.2E7	2.2E8	4	2	TEST-SIM	YES	NOTE 6
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	1	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C9
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES: (CONT.)
6. COMBINED RADIATION FOR GAMMA, BETA AND NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION IS 4.2E7 RADS.

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DBX____ REV 0

18-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE102
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.:122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
MONITOR DRYWELL AREA TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: +/-1.2F (NOTE 5)
DEMO: +/-1.2F

ZONE NO.: PC289681
SUBMERGENCE: NA
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	150/135	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	190	190	1	2,4	TEST-SIM	NA	
ACCIDENT	270	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	.5 TO 1.0	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	40	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	90	100	1	2	TEST-SIM	NA	
ABNORMAL	100	100	1	2	TEST-SIM	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA							
ACC GAMMA	5.4E7	2.2E8	4	2	TEST-SIM	YES	NOTE 6
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	1	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C12
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES: (CONT.)
6. COMBINED RADIATION FOR GAMMA, BETA AND NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION IS 5.4E7 RADS.

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DBY____ REV 0

18-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE103
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
MONITOR DRYWELL AREA TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: +/-1.2F (NOTE 5)
DEMO: +/-1.2F

ZONE NO.: PC261641
SUBMERGENCE: NA
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	150/135	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	190	190	1	2,4	TEST-SIM	NA	
ACCIDENT	340	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	.5 TO 1.0	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	45	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	90	100	1	2	TEST-SIM	NA	
ABNORMAL	100	100	1	2	TEST-SIM	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA							
ACC GAMMA	5.2E7	2.2E8	4	2	TEST-SIM	YES	NOTE 6
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	1	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C12
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES: (CONT.)
6. COMBINED RADIATION FOR GAMMA, BETA AND NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION IS 5.2E7 RADS.

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DBZ____ REV 0

18-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE104
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
MONITOR DRYWELL AREA TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: +/-1.2F (NOTE 5)
DEMO: +/-1.2F

ZONE NO.: PC261649
SUBMERGENCE: NA
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	150/135	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	190	190	1	2,4	TEST-SIM	NA	
ACCIDENT	340	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	.5 TO 1.0	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	45	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	90	100	1	2	TEST-SIM	NA	
ABNORMAL	100	100	1	2	TEST-SIM	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA							
ACC GAMMA	4.4E7	2.2E8	4	2	TEST-SIM	YES	NOTE 6
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	1	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV. 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C12
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES: (CONT.)
6. COMBINED RADIATION FOR GAMMA, BETA AND NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION IS 4.4E7 RADS.

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DCA____ REV 0

18-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE105
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
MONITOR DRYWELL AREA TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: +/-1.2F (NOTE 5)
DEMO: +/-1.2F

ZONE NO.: PC250619
SUBMERGENCE: NA
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	150/135	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	190	190	1	2,4	TEST-SIM	NA	
ACCIDENT	340	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	.5 TO 1.0	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	45	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	90	100	1	2	TEST-SIM	NA	
ABNORMAL	100	100	1	2	TEST-SIM	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA							
ACC GAMMA	6.3E7	2.2E8	4	2	TEST-SIM	YES	NOTE 6
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C12
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES: (CONT.)

6. COMBINED RADIATION FOR GAMMA, BETA AND NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION IS 6.3E7 RADS.

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DCB____ REV 0

18-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE106
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
MONITOR DRYWELL AREA TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: +/-1.2F (NOTE 5)
DEMO: +/-1.2F

ZONE NO.: PC240612
SUBMERGENCE: NA
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	150/135	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	190	190	1	2,4	TEST-SIM	NA	
ACCIDENT	340	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	.5 TO 1.0	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	45	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	90	100	1	2	TEST-SIM	NA	
ABNORMAL	100	100	1	2	TEST-SIM	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA							
ACC GAMMA	4.4E7	2.2E8	4	2	TEST-SIM	YES	NOTE 6
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C12
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES: (CONT.)
6. COMBINED RADIATION FOR GAMMA, BETA AND NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION IS 4.4E7 RADS.

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DCC____ REV 0

16-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE107
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.:122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
MONITOR SUPP CHAMBER AREA TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: +/-1.2F (NOTE 5)
DEMO: +/-1.2F

ZONE NO.: SC215122
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/93	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	106	190	1	2,4	TEST-SIM	NA	
ACCIDENT	200	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	2E6		1			NA	
ACC GAMMA	3.2E7	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C8
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DCD____ REV 0

16-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE108
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.:122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
MONITOR SUPP CHAMBER AREA TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: +/-1.2F (NOTE 5)
DEMO: +/-1.2F

ZONE NO.: PC215121
SUBMERGENCE: YES
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	150/135	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	190	190	1	2,4	TEST-SIM	NA	
ACCIDENT	270	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	.5 TO 1.0	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	40	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	90	100	1	2	TEST-SIM	NA	
ABNORMAL	100	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA							
ACC GAMMA	5.5E7	2.2E8	4	2	TEST-SIM	YES	NOTE 6
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-SIM	NA	
SUBMERGENCE	<2 SEC	10 SEC	1	2,4	AN + DATA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C13
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES: (CONT.)

6. COMBINED RADIATION FOR GAMMA, BETA AND NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION IS 5.5E7 RADS.

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DCE____ REV 0

16-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE109
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.:122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
MONITOR SUPP CHAMBER AREA TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: +/-1.2F (NOTE 5)
DEMO: +/-1.2F

ZONE NO.: PC215121
SUBMERGENCE: YES
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	150/135	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	190	190	1	2,4	TEST-SIM	NA	
ACCIDENT	270	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	.5 TO 1.0	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	40	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	90	100	1	2	TEST-SIM	NA	
ABNORMAL	100	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA							
ACC GAMMA	5.5E7	2.2E8	4	2	TEST-SIM	YES	NOTE 6
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-SIM	NA	
SUBMERGENCE	<2 SEC	10 SEC	1	2,4	AN + DATA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C13
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES: (CONT.)

6. COMBINED RADIATION FOR GAMMA, BETA AND NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION IS 5.5E7 RADS.

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DCF____ REV 0

18-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE116
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
MONITOR SUPP CHAMBER AREA TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: +/-1.2F (NOTE 5)
DEMO: +/-1.2F

ZONE NO.: PC306713
SUBMERGENCE: NA
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	150/135	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	190	190	1	2,4	TEST-SIM	NA	
ACCIDENT	340	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	.5 TO 1.0	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	45	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	90	100	1	2	TEST-SIM	NA	
ABNORMAL	100	100	1	2	TEST-SIM	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA							
ACC GAMMA	4.2E7	2.2E8	4	2	TEST-SIM	YES	NOTE 6
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C12
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES: (CONT.)
6. COMBINED RADIATION FOR GAMMA, BETA AND NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION IS 4.2E7 RADS.

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DCG____ REV 0

18-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE117
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
MONITOR DRYWELL AREA TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: +/-1.2F (NOTE 5)
DEMO: +/-1.2F

ZONE NO.: PC289681
SUBMERGENCE: SCEW
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	150/135	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	190	190	1	2,4	TEST-SIM	NA	
ACCIDENT	340	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	.5 TO 1.0	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	45	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	90	100	1	2	TEST-SIM	NA	
ABNORMAL	100	100	1	2	TEST-SIM	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA							
ACC GAMMA	5.4E7	2.2E8	4	2	TEST-SIM	YES	NOTE 6
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C12
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES: (CONT.)
6. COMBINED RADIATION FOR GAMMA, BETA AND NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION IS 5.4E7 RADS.

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DCH____ REV 0

18-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE118
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
MONITOR DRYWELL AREA TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: +/-1.2F (NOTE 5)
DEMO: +/-1.2F

ZONE NO.: PC261649
SUBMERGENCE: NA
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	150/135	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	190	190	1	2,4	TEST-SIM	NA	
ACCIDENT	340	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	.5 TO 1.0	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	45	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	90	100	1	2	TEST-SIM	NA	
ABNORMAL	100	100	1	2	TEST-SIM	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA							
ACC GAMMA	4.4E7	2.2E8	4	2	TEST-SIM	YES	NOTE 6
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C12
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES: (CONT.)
6. COMBINED RADIATION FOR GAMMA, BETA AND NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION IS 4.4E7 RADS.

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DCI____ REV 0

18-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE119
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
MONITOR DRYWELL AREA TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: +/-1.2F (NOTE 5)
DEMO: +/-1.2F

ZONE NO.: PC261638
SUBMERGENCE: NA
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	150/135	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	190	190	1	2,4	TEST-SIM	NA	
ACCIDENT	340	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	.5 TO 1.0	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	45	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	90	100	1	2	TEST-SIM	NA	
ABNORMAL	100	100	1	2	TEST-SIM	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA							
ACC GAMMA	5.1E7	2.2E8	4	2	TEST-SIM	YES	NOTE 6
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C12
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES: (CONT.)
6. COMBINED RADIATION FOR GAMMA, BETA AND NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION IS 5.1E7 RADS.

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DCJ____ REV 0

18-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE120
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
MONITOR DRYWELL AREA TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: +/-1.2F (NOTE 5)
DEMO: +/-1.2F

ZONE NO.: PC250625
SUBMERGENCE: NA
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	150/135	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	190	190	1	2,4	TEST-SIM	NA	
ACCIDENT	340	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	.5 TO 1.0	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	45	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	90	100	1	2	TEST-SIM	NA	
ABNORMAL	100	100	1	2	TEST-SIM	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA							
ACC GAMMA	3.8E7	2.2E8	4	2	TEST-SIM	YES	NOTE 6
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C12
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES: (CONT.)
6. COMBINED RADIATION FOR GAMMA, BETA AND NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION IS 3.8E7 RADS.

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DCK____ REV 0

18-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE121
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
MONITOR DRYWELL AREA TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: +/-1.2F (NOTE 5)
DEMO: +/-1.2F

ZONE NO.: PC240603
SUBMERGENCE: YES
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588, CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	150/135	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	190	190	1	2,4	TEST-SIM	NA	
ACCIDENT	340	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	.5 TO 1.0	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	45	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	90	100	1	2	TEST-SIM	NA	
ABNORMAL	100	100	1	2	TEST-SIM	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA							
ACC GAMMA	4.5E7	2.2E8	4	2	TEST-SIM	YES	NOTE 6
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY		YES	1	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C12
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES: (CONT.)
6. COMBINED RADIATION FOR GAMMA, BETA AND NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION IS 4.5E7 RADS.

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DCL____ REV 0

16-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE122
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.:122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
MONITORING SUPP. CHAMBER AREA TEMPERATURE

OP. CODE: B

ACCURACY - -
SPEC: +/-1.2F NOTE 5
DEMO: +/-1.2F

ZONE NO.: SC215122
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/93	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	106	190	1	2,4	TEST-SIM	NA	
ACCIDENT	200	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	2E6		1			NA	
ACC GAMMA	3.2E7	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C13
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DCM____ REV 0

16-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE123
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-7039-314

SAFETY FUNCTION: - - -
MONITOR SUPPRESSION POOL WATER TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: +/-1.2F (NOTE 5)
DEMO: +/-1.2F

ZONE NO.: PC215121
SUBMERGENCE: YES
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	150/135	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	190	190	1	2,4	TEST-SIM	NA	
ACCIDENT	270	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	.5 TO 1.0	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	40	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	90	100	1	2	TEST-SIM	NA	
ABNORMAL	100	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA							
ACC GAMMA	5.5E7	2.2E8	4	2	TEST-SIM	YES	NOTE 6
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-SIM	NA	
SUBMERGENCE	<2 SEC	10 SEC	1	2,4	AN + DATA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C13
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES: (CONT.)

6. COMBINED RADIATION FOR GAMMA, BETA AND NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION IS 5.5E7 RADS.

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DCN____ REV 0

16-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*TE124
SPEC NO.: C041D
SYSTEM: CONTAINMENT MONITORING SYSTEM

TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-82.3

SAFETY FUNCTION: - - -
MONITORING SUPP. CHAMBER AREA TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: +/-1.2F (NOTE 5)
DEMO: +/-1.2F

ZONE NO.: PC215121
SUBMERGENCE: YES
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	150/135	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	190	190	1	2,4	TEST-SIM	NA	
ACCIDENT	270	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	.5 TO 1.0	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	40	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	90	100	1	2	TEST-SIM	NA	
ABNORMAL	100	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA							
ACC GAMMA	5.5E7	2.2E8	4	2	TEST-SIM	YES	NOTE 6
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-SIM	NA	
SUBMERGENCE	<2 SEC	10 SEC	1	2,4	AN + DATA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.33-2-C13
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES: (CONT.)

6. COMBINED RADIATION FOR GAMMA, BETA AND NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION IS 5.5E7 RADS.

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DCO____ REV 0

16-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SFC*TE8A
SPEC NO.: C041D
SYSTEM: SPENT FUEL POOL COOLING AND CLEAN-UP
TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.:122-4030-04-2.7-9

SAFETY FUNCTION: - - -
MONITORING SF POOL HT EXCH OUT TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: +/-1.2F (NOTE 5)
DEMO: +/-1.2F

ZONE NO.: SC215122
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/93	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	106	190	1	2,4	TEST-SIM	NA	
ACCIDENT	200	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	2E6		1			NA	
ACC GAMMA	3.2E7	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.34-2-C3
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DCP____ REV 0

16-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SFC*TE8B
SPEC NO.: C041D
SYSTEM: SPENT FUEL POOL COOLING AND CLEAN-UP
TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-9

SAFETY FUNCTION: - - -
MONITORING SF POOL HT EXCH OUT TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: +/-1.2F (NOTE 5)
DEMO: +/-1.2F

ZONE NO.: SC215122
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/93	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	106	190	1	2,4	TEST-SIM	NA	
ACCIDENT	200	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	2E6		1			NA	
ACC GAMMA	3.2E7	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.34-2-C3
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DCQ____ REV 0

16-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SFC*TE31A
SPEC NO.: C041D
SYSTEM: SPENT FUEL POOL COOLING AND CLEAN-UP
TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-9

SAFETY FUNCTION: - - -
MONITORING SF POOL SURGE TANK OUTLET TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: +/-1.2F (NOTE 5)
DEMO: +/-1.2F

ZONE NO.: SC328193
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/98	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	197	197	1	2,4	TEST-SIM	NA	
ACCIDENT	175	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	2.2E6		1			NA	
ACC GAMMA	2.6E6	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.34-2-C5
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C041DCR____ REV 0

16-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SFC*TE31B
SPEC NO.: C041D
SYSTEM: SPENT FUEL POOL COOLING AND CLEAN-UP
TYPE: (DESCRIPTION)
RESISTANCE TEMPERATURE DETECTOR (RTD)

MANUFACTURER: PYCO

MODEL NO.: 122-4030-04-2.7-9

SAFETY FUNCTION: - - -
MONITORING SF POOL SURGE TANK OUTLET TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: +/-1.2F (NOTE 5)
DEMO: +/-1.2F

ZONE NO.: SC328221
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	120/109	150	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	123	197	1	2,4	TEST-SIM	NA	
ACCIDENT	300	400	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	63	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	2.8E6		1			NA	
ACC GAMMA	1.1E7	2.2E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07-145-5003 B THRU G
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO.34-2-C5
4. SWEC CALCULATION NO. 12177-EQS-029

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS.
4. TERMINAL HEAD GASKET MUST BE REPLACED WITH A NEW GASKET WHENEVER HEAD COVER IS REMOVED, IN ORDER TO MAINTAIN QUALIFICATION.
5. FACTORY CERTIFICATION TESTING OF RTD'S HAS DEMONSTRATED ACCURACY OF <+/-1.0 F THE QUALIFICATION TYPE TESTING HAS SHOWN AN ACCURACY OF +/-1.2 F. A REVIEW OF THE SETPOINT CALCULATIONS HAS SHOWN THAT +/-1.2F IS AN ACCEPTABLE ACCURACY.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C051MAA___ REV 0

19-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CSL*FV114
SPEC NO.: C051M
SYSTEM:
LOW PRESSURE CORE SPRAY

TYPE: (DESCRIPTION)
MOTOR OPERATED VALVE,
RELIANCE AC MOTOR, CLASS RH
INSULATION
MANUFACTURER: LIMITORQUE

MODEL NO.: SMB-00-5

SAFETY FUNCTION: - - -
LPCS TEST BYPASS

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC175103
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20 (SEE NOTE 3)
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	100 DAYS	3	2,4	AN + DATA	YES	NOTE 4
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/85	122	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	92	122	1	2	TEST-SIM	NA	
ACCIDENT	175	340	1	2,5	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-.25"WG	0	1	2	TEST-SIM	NA	
ABNORMAL	-.25"WG	0	1	2	TEST-SIM	NA	
ACCIDENT	2.8	25	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2,5	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	7.7E5		1		TEST-SIM	NA	
ACC GAMMA	1.1E8	1.66E8	1	2,4,5	TEST-SIM	YES	NOTE 5
NORM BETA	NA	-	1			NA	
ACC BETA	1.3E7	-	1		AN+DATA	YES	
NEUTRON	NA	-	1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # RSTD DATED 3-9-79 FOR REPORT B0003
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 27-5-C6
4. CALCULATION NUMBER 12177-EQS-025
5. GE PHASE 3 TEST REPORT SDDF # IEEE 016.820-5007C

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. QUALIFIED LIFE IS BASED ON ZONE SPECIFIC ENVIRONMENTAL VALUES, WHICH INCORPORATE MAXIMUM, MINIMUM AND AVERAGE CONDITIONS.
4. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS BY ANALYSIS.
5. RADIATION QUALIFICATION WAS EXTENDED FROM 20 MEGARADS IN REF. 2 TO 166 MEGARADS IN REF. 5 (GE PHASE 3 TEST REPORT), WHICH HAS SUCCESSFULLY COMPLETED TESTING UP TO 30 DAYS OF POST-LOCA TESTING.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C051MAB_ REV 0

23-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2ICS*AOV109
SPEC NO.: C051M
SYSTEM: REACTOR CORE ISOLATION

TYPE: (DESCRIPTION)
LIMIT SWITCH

MANUFACTURER: NAMCO

MODEL NO.: EA740

SAFETY FUNCTION: - - -
INDICATE POSITION OF TURB. EXH DR ISOLATION VALVE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC175106
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	12 HRS	>100 DAYS	3	4	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	194	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	86	194	1	2	TEST-SIM	NA	
ACCIDENT	325	380	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	3.8	100	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	2.4E4		1			NA	
ACC GAMMA	2E7	2.04E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.160-5005A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. FSK-27-6-C5
4. CALCULATION NO. 12177-EOS-41

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN, BY ANALYSIS.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

QUAL REF #_C051MAB_ REV 0

SYSTEM COMPONENT EVALUATION WORK SHEET

23-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2ICS*AOV109
SPEC NO.: C051M
SYSTEM: REACTOR CORE ISOLATION

TYPE: (DESCRIPTION)
SOLENOID VALVE

MANUFACTURER: ASCO

MODEL NO.: 206-380-3RF

SAFETY FUNCTION: - - -
TURBINE EXH. DR. ISOLATION VALVE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC175106
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 4,5

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	12 HRS	>100 DAYS	3	4	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/85	140	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	86	268	1	2,4	TEST-SIM	NA	
ACCIDENT	325	346	1	2,4	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	3.8	110	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	2.4E4		1			NA	
ACC GAMMA	2E7	2.0E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.160-5004C
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. FSK-27-6-C5
4. CALCULATION NO. 12177-EQS-16
5. ASCO INSTALLATION AND MAINTENANCE INSTRUCTION FORM V-5969 AND V-5999

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 32 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN, BY ANALYSIS.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C051MAC_ REV 0

23-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2ICS*AOV110
SPEC NO.: C051M
SYSTEM: REACTOR CORE ISOLATION

TYPE: (DESCRIPTION)
LIMIT SWITCH

MANUFACTURER: NAMCO

MODEL NO.: EA740

SAFETY FUNCTION: - - -
INDICATE POSITION OF TURB. EXH DR ISOLATION VALVE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC175106
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	12 HRS	>100 DAYS	3	4	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	194	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	86	194	1	2	TEST-SIM	NA	
ACCIDENT	325	380	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	3.8	100	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	2.4E4		1			NA	
ACC GAMMA	2E7	2.04E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.160-5005A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. FSK-27-6-C5
4. CALCULATION NO. 12177-EQS-41

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN, BY ANALYSIS.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

QUAL REF #_C051MAC_ REV 0

SYSTEM COMPONENT EVALUATION WORK SHEET

23-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2ICS*AOV110
SPEC NO.: C051M
SYSTEM: REACTOR CORE ISOLATION

TYPE: (DESCRIPTION)
SOLENOID VALVE

MANUFACTURER: ASCO

MODEL NO.: 206-380-3RF

SAFETY FUNCTION: - - -
TURBINE EXH. DR. ISOLATION VALVE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC175106
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 4,5

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	12 HRS	>100 DAYS	3	4	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/85	140	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	86	268	1	2,4	TEST-SIM	NA	
ACCIDENT	325	346	1	2,4	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	3.8	110	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	2.4E4		1			NA	
ACC GAMMA	2E7	2.0E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.160-5004C
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. FSK-27-6-C5
4. CALCULATION NO. 12177-EQS-16
5. ASCO INSTALLATION AND MAINTENANCE INSTRUCTION FORM V-5969 AND V-5999

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 32 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN, BY ANALYSIS.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C051MAD_ REV 0

23-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2ICS*AOV130
SPEC NO.: C051M
SYSTEM: REACTOR CORE ISOLATION

TYPE: (DESCRIPTION)
LIMIT SWITCH

MANUFACTURER: NAMCO

MODEL NO.: EA740

SAFETY FUNCTION: - - -
INDICATE POSITION OF ST LINE
DR. ISOLATION VALVE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC175106
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE OR SPRAY

ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	12 HRS	>100 DAYS	3	4	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/85	194	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	86	194	1	2	TEST-SIM	NA	
ACCIDENT	325	380	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	3.8	100	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	2.4E4		1			NA	
ACC GAMMA	2E7	2.04E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.160-5005A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. FSK-27-6-C5
4. CALCULATION NO. 12177-EQS-41

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN, BY ANALYSIS.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

QUAL REF #_C051MAD_ REV 0

SYSTEM COMPONENT EVALUATION WORK SHEET

23-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2ICS*AOV130
SPEC NO.: C051M
SYSTEM: REACTOR CORE ISOLATION

TYPE: (DESCRIPTION)
SOLENOID VALVE

MANUFACTURER: ASCO

MODEL NO.: 206-380-3RF

SAFETY FUNCTION: - - -
TURBINE EXH. DR. ISOLATION VALVE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC175106
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 4,5

QUALIFIED LIFE - - -
(YEARS): 3.0
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	12 HRS	>100 DAYS	3	4	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/85	140	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	86	268	1	2,4	TEST-SIM	NA	
ACCIDENT	325	346	1	2,4	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	3.8	110	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	2.4E4		1	2		NA	
ACC GAMMA	2E7	2.0E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1	2		NA	
ACC BETA	1.3E7		1	2		YES	
NEUTRON	NA		1	2		NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.160-5004C
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. FSK-27-6-C5
4. CALCULATION NO. 12177-EQS-16
5. ASCO INSTALLATION AND MAINTENANCE INSTRUCTION FORM V-5969 AND V-5999

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 32 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN, BY ANALYSIS.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

QUAL REF #_C051MAE_ REV 0

SYSTEM COMPONENT EVALUATION WORK SHEET

23-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2ICS*AOV131
SPEC NO.: C051M
SYSTEM: REACTOR CORE ISOLATION

TYPE: (DESCRIPTION)
LIMIT SWITCH

MANUFACTURER: NAMCO

MODEL NO.: EA740

SAFETY FUNCTION: - - -
INDICATE POSITION OF ST LINE
DR. ISOLATION VALVE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC175106
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE OR SPRAY

ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	12 HRS	>100 DAYS	3	4	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/85	194	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	86	194	1	2	TEST-SIM	NA	
ACCIDENT	325	380	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	3.8	100	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	2.4E4		1			NA	
ACC GAMMA	2E7	2.04E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.160-5005A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. FSK-27-6-C5
4. CALCULATION NO. 12177-EQS-41

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN, BY ANALYSIS.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

QUAL REF #_C051MAE_ REV 0

SYSTEM COMPONENT EVALUATION WORK SHEET

23-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2ICS*AOV131
SPEC NO.: C051M
SYSTEM: REACTOR CORE ISOLATION

TYPE: (DESCRIPTION)
SOLENOID VALVE

MANUFACTURER: ASCO

MODEL NO.: 206-380-3RF

SAFETY FUNCTION: - - -
TURBINE EXH. DR. ISOLATION VALVE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC175106
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 4,5

QUALIFIED LIFE - - -
(YEARS): 3.0
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	12 HRS	>100 DAYS	3	4	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/85	140	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	86	268	1	2,4	TEST-SIM	NA	
ACCIDENT	325	346	1	2,4	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	3.8	110	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	2.4E4		1			NA	
ACC GAMMA	2E7	2.0E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.160-5004C
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. FSK-27-6-C5
4. CALCULATION NO. 12177-EQS-16
5. ASCO INSTALLATION AND MAINTENANCE INSTRUCTION FORM V-5969 AND V-5999

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 32 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN, BY ANALYSIS.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C051MAF____ REV 0

19-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2ICS*FV108
SPEC NO.: C051M
SYSTEM:

TYPE: (DESCRIPTION)
MOTOR OPERATED VALVE,
H.K.PORTER DC MOTOR, CLASS H
INSULATION
MANUFACTURER: LIMITORQUE

MODEL NO.: SMB-00-5

SAFETY FUNCTION: - - -
TEST BYPASS TO CONDENSATE
STORAGE TANK FLOW CONTROL
VALVE
OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC175106
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 2 (SEE NOTE 3)
REFERENCE: 4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	12 HOURS	100 DAYS	3	2,4	TEST-SIM		NOTE 4
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	122	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	86	122	1	2	TEST-SIM	NA	
ACCIDENT	325	340	1	2,5	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	0	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	0	1	2	TEST-SIM	NA	
ACCIDENT	3.8	105	1	2,5	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2,5	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	2.4E4		1		TEST-SIM	NA	
ACC GAMMA	2E7	1.66E8	1	2,4,5	TEST-SIM	YES	- NOTE 5
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-SIM	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # RSTD DATED 3-19-79 FOR REPORT B0009
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 27-6-C2
4. CALCULATION NUMBER 12177-EQS-026
5. GE PHASE 3 TEST REPORT SDDF # IEEE 016.820-5007C

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. QUALIFIED LIFE IS BASED ON ZONE SPECIFIC ENVIRONMENTAL VALUES, WHICH INCORPORATE MAXIMUM, MINIMUM AND AVERAGE CONDITIONS. EXTENSION OF THE QUALIFIED LIFE WILL BE INCREASED PENDING COMPLETION OF THE GE LIMITORQUE TESTING PROGRAM.
4. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS BY ANALYSIS. SEE REFERENCE 4.
5. RADIATION QUALIFICATION EXTENDED FROM 20 MEGARADS IN REF. 2 TO 166 MEGARADS BY REF. 5 (GE PHASE 3 TEST REPORT), WHICH HAS SUCCESSFULLY COMPLETED TESTING UP TO 30 DAYS OF POST-LOCA TESTING.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C051MAG_ REV 0

23-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2ICS*PCV115
SPEC NO.: C051M
SYSTEM: REACTOR CORE ISOLATION

TYPE: (DESCRIPTION)
LIMIT SWITCH

MANUFACTURER: NAMCO

MODEL NO.: EA740

SAFETY FUNCTION: - - -
INDICATE POSITION OF TURBINE LUBE OIL PRESSURE VALVE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC175106
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	12 HRS	>100 DAYS	3	4	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/85	194	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	86	194	1	2	TEST-SIM	NA	
ACCIDENT	325	380	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	3.8	100	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	2.4E4		1			NA	
ACC GAMMA	2E7	2.04E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.160-5005A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. FSK-27-6-C4
4. CALCULATION NO. 12177-EQS-41

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN, BY ANALYSIS.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C051MAH____ REV 0

19-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2RHS*FV38A
SPEC NO.: C051M
SYSTEM:
RESIDUAL HEAT REMOVAL

TYPE: (DESCRIPTION)
MOTOR OPERATED VALVE,
RELIANCE AC MOTOR, CLASS RH
INSULATION
MANUFACTURER: LIMITORQUE

MODEL NO.: SMB-00-5

SAFETY FUNCTION: - - -
SUPPRESSION POOL RETURN LINE
ISOLATION VALVES

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC196114
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20 (SEE NOTE 3)
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	100 DAYS	3	2,4	TEST-SIM		NOTE 4
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	122	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	92	122		2	TEST-SIM	NA	
ACCIDENT	175	340	1	2,5	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	0	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	0			TEST-SIM	NA	
ACCIDENT	2.8	25	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100		2	TEST-SIM	NA	
ACCIDENT	100	100	1	2,5	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	7.7E5		1		TEST-SIM	NA	
ACC GAMMA	1.0E8	1.66E8	1	2,4,5	TEST-SIM	YES	- NOTE 5
NORM BETA	NA					NA	
ACC BETA	1.3E7		1		AN+DATA	YES	
NEUTRON	NA					NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # RSTD DATED 3-9-79 FOR REPORT B0003
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 27-7-19
4. CALCULATION NUMBER 12177-EQS-025
5. GE PHASE 3 TEST REPORT SDDF # IEEE 016.820-5007C

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. QUALIFIED LIFE IS BASED ON ZONE SPECIFIC ENVIRONMENTAL VALUES, WHICH INCORPORATE MAXIMUM, MINIMUM AND AVERAGE CONDITIONS.
4. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS BY ANALYSIS.
5. RADIATION QUALIFICATON WAS EXTENDED FROM 20 MEGARADS IN REF. 2 TO 166 MEGARADS IN REF. 5 (GE PHASE 3 TEST REPORT), WHICH HAS SUCCESSFULLY COMPLETED TESTING UP TO 30 DAYS OF POST-LOCA TESTING.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C051MAI____ REV 0

19-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2RHS*FV38B
SPEC NO.: C051M
SYSTEM:
RESIDUAL HEAT REMOVAL

TYPE: (DESCRIPTION)
MOTOR OPERATED VALVE,
RELIANCE AC MOTOR, CLASS RH
INSULATION
MANUFACTURER: LIMITORQUE

MODEL NO.: SMB-00-5

SAFETY FUNCTION: - - -
SUPPRESSION POOL RETURN LINE
ISOLATION VALVES

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC215122
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20 (SEE NOTE 3)
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	100 DAYS	3	2,4	TEST-SIM		NOTE 4
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/93	122	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	106	122		2	TEST-SIM	NA	
ACCIDENT	200	340	1	2,5	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	0	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	0		2	TEST-SIM	NA	
ACCIDENT	2.8	25	1	2,5	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100		2	TEST-SIM	NA	
ACCIDENT	100	100	1	2,5	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	2E6		1		TEST-SIM	NA	
ACC GAMMA	3.2E7	1.66E8	1	2,4,5	TEST-SIM	YES	- NOTE 5
NORM BETA	NA					NA	
ACC BETA	1.3E7		1		AN+DATA	YES	
NEUTRON	NA					NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # RSTD DATED 3-9-79 FOR REPORT B0003
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 27-7-19
4. CALCULATION NUMBER 12177-EQS-025
5. GE PHASE 3 TEST REPORT SDDF # IEEE 016.820-5007C

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. QUALIFIED LIFE IS BASED ON ZONE SPECIFIC ENVIRONMENTAL VALUES, WHICH INCORPORATE MAXIMUM, MINIMUM AND AVERAGE CONDITIONS.
4. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS BY ANALYSIS.
5. RADIATION QUALIFICATON WAS EXTENDED FROM 20 MEGARADS IN REF. 2 TO 166 MEGARADS IN REF. 5 (GE PHASE 3 TEST REPORT), WHICH HAS SUCCESSFULLY COMPLETED TESTING UP TO 30 DAYS OF POST-LOCA TESTING.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C051MAJ____ REV 0

19-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2RHS*FV38C
SPEC NO.: C051M
SYSTEM:
RESIDUAL HEAT REMOVAL

TYPE: (DESCRIPTION)
MOTOR OPERATED VALVE,
RELIANCE AC MOTOR, CLASS RH
INSULATION
MANUFACTURER: LIMITORQUE

MODEL NO.: SMB-00-5

SAFETY FUNCTION: - - -
SUPPRESSION POOL RETURN LINE
ISOLATION VALVES

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC215122
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20 (SEE NOTE 3)
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	100 DAYS	3	2,4	TEST-SIM		- NOTE 4
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/93	122	1	2	TEST-SIM	NA	- NOTE 2
ABNORMAL	106	122		2	TEST-SIM	NA	
ACCIDENT	200	340	1	2,5	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	0	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	0	1	2	TEST-SIM	NA	
ACCIDENT	2.8	25	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2,5	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	2E6		1		TEST-SIM	NA	
ACC GAMMA	3.2E7	1.66E8	1	2,4,5	TEST-SIM	YES	- NOTE 5
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1		AN+DATA	YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # RSTD DATED 3-9-79 FOR REPORT B0003
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 27-7-13
4. CALCULATION NUMBER 12177-EQS-025
5. GE PHASE 3 TEST REPORT SDDF # IEEE 016.820-5007C

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. QUALIFIED LIFE IS BASED ON ZONE SPECIFIC ENVIRONMENTAL VALUES, WHICH INCORPORATE MAXIMUM, MINIMUM AND AVERAGE CONDITIONS.
4. OPERABILITY PERIOD EXTENDED FROM 30 DAYS TESTED VALUE TO 100 DAYS BY ANALYSIS.
5. RADIATION QUALIFICATON WAS EXTENDED FROM 20 MEGARADS IN REF. 2 TO 166 MEGARADS IN REF. 5 (GE PHASE 3 TEST REPORT), WHICH HAS SUCCESSFULLY COMPLETED TESTING UP TO 30 DAYS OF POST-LOCA TESTING.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

QUAL REF #_C051MAK_ REV 0

SYSTEM COMPONENT EVALUATION WORK SHEET

23-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2RHS*LV17A
SPEC NO.: C051M
SYSTEM: RESIDUAL HEAT REMOVAL

TYPE: (DESCRIPTION)
LIMIT SWITCH

MANUFACTURER: NAMCO

MODEL NO.: EA740

SAFETY FUNCTION: - - -
INDICATING THE POSITION OF THE ISOLATION VALVES FOR STM CONDENSING MODE OF RHS
OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABN17505
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	6 HRS	>100 DAYS	3	4	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/87	194	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	104	194	1	2	TEST-SIM	NA	
ACCIDENT	175	380	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25" WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25" WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	100	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.1E6		1			NA	
ACC GAMMA	5.4E7	2.04E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.160-5005A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. FSK-27-7-2
4. CALCULATION NO. 12177-EQS-41

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN, BY ANALYSIS.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C051MAK_ REV 0

23-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2RHS*LV17A
SPEC NO.: C051M
SYSTEM: RESIDUAL HEAT REMOVAL

TYPE: (DESCRIPTION)
SOLENOID VALVE

MANUFACTURER: ASCO

MODEL NO.: 206-380-3RF

SAFETY FUNCTION: - - -
ISOLATION VALVE FOR
STM CONDENSING MODE OF RHS

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABN17505
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE OR SPRAY

ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 4,5

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	6 HRS	>100 DAYS	3	4	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/87	140	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	104	268	1	2,4	TEST-SIM	NA	
ACCIDENT	175	346	1	2,4	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25" WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25" WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	110	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	1.1E6		1	2		NA	
ACC GAMMA	5.4E7	2.0E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1	2		NA	
ACC BETA	1.3E7		1	2		YES	
NEUTRON	NA		1	2		NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.160-5004C
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. FSK-27-7-2
4. CALCULATION NO. 12177-EQS-16
5. ASCO INSTALLATION AND MAINTENANCE INSTRUCTION FORM V-5969 AND V-5999

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 32 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN, BY ANALYSIS.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C051MAL_ REV 0

23-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2RHS*LV17B
SPEC NO.: C051M
SYSTEM: RESIDUAL HEAT REMOVAL

TYPE: (DESCRIPTION)
LIMIT SWITCH

MANUFACTURER: NAMCO

MODEL NO.: EA740

SAFETY FUNCTION: - - -
INDICATING THE POSITION OF THE ISOLATION VALVES FOR STM CONDENSING MODE OF RHS
OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABS17510
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	6 HRS	>100 DAYS	3	4	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/89	194	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	107	194	1	2	TEST-SIM	NA	
ACCIDENT	175	380	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	100	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	1.1E6		1			NA	
ACC GAMMA	3.6E7	2.04E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.160-5005A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. FSK-27-7-2
4. CALCULATION NO. 12177-EQS-41

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN, BY ANALYSIS.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C051MAL_ REV 0

23-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2RHS*LV17B
SPEC NO.: C051M
SYSTEM: RESIDUAL HEAT REMOVAL

TYPE: (DESCRIPTION)
SOLENOID VALVE

MANUFACTURER: ASCO

MODEL NO.: 206-380-3RF

SAFETY FUNCTION: - - -
ISOLATION VALVE FOR
STM CONDENSING MODE OF RHS

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABS17510
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE OR SPRAY

ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 4,5

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	6 HRS	>100 DAYS	3	4	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/89	140	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	107	268	1	2,4	TEST-SIM	NA	
ACCIDENT	175	346	1	2,4	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	110	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	1.1E6		1			NA	
ACC GAMMA	5.1E7	2.0E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.4E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.160-5004C
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. FSK-27-7-2
4. CALCULATION NO. 12177-EQS-16
5. ASCO INSTALLATION AND MAINTENANCE INSTRUCTION FORM V-5969 AND V-5999

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 32 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN, BY ANALYSIS.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C051MAM_ REV 0

23-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2RHS*PV21A
SPEC NO.: C051M
SYSTEM: RESIDUAL HEAT REMOVAL

TYPE: (DESCRIPTION)
LIMIT SWITCH

MANUFACTURER: NAMCO

MODEL NO.: EA740

SAFETY FUNCTION: - - -
INDICATING THE POSITION OF THE ISOLATION VALVES FOR STM CONDENSING MODE OF RHS
OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC175103
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	6 HRS	>100 DAYS	3	4	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - - -	- - - - -	- - - - - -	- - - - - -	- - -	NOTE 1
NORMAL	104/85	194	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	92	194	1	2	TEST-SIM	NA	
ACCIDENT	175	380	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - - -	- - - - -	- - - - - -	- - - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	100	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - - -	- - - - -	- - - - - -	- - - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - - -	- - - - -	- - - - - -	- - - - - -	- - -	NOTE 1
NORM GAMMA	7.7E5		1			NA	
ACC GAMMA	1.1E8	2.04E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.160-5005A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. FSK-27-7-2
4. CALCULATION NO. 12177-EQS-41

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN, BY ANALYSIS.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C051MAM_ REV 0

23-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2RHS*PV21A
SPEC NO.: C051M
SYSTEM: RESIDUAL HEAT REMOVAL

TYPE: (DESCRIPTION)
SOLENOID VALVE

MANUFACTURER: ASCO

MODEL NO.: 206-380-3RF

SAFETY FUNCTION: - - -
ISOLATION VALVE FOR STM CONDENSING MODE OF RHS

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC175103
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 4,5

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	6 HRS	>100 DAYS	3	4	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/85	140	1	2.4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	268	1	2.4	TEST-SIM	NA	
ACCIDENT	175	346	1	2.4	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	110	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	7.7E5		1			NA	
ACC GAMMA	1.1E8	2.0E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.160-5004C
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. FSK-27-7-2
4. CALCULATION NO. 12177-EQS-16
5. ASCO INSTALLATION AND MAINTENANCE INSTRUCTION FORM V-5969 AND V-5999

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 32 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN, BY ANALYSIS.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

QUAL REF #_C051MAN_ REV 0

SYSTEM COMPONENT EVALUATION WORK SHEET

23-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2RHS*PV21B
SPEC NO.: C051M
SYSTEM: RESIDUAL HEAT REMOVAL

TYPE: (DESCRIPTION)
LIMIT SWITCH

MANUFACTURER: NAMCO

MODEL NO.: EA740

SAFETY FUNCTION: - - -
INDICATING THE POSITION OF THE ISOLATION VALVES FOR STM CONDENSING MODE OF RHS
OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC175111
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	6 HRS	>100 DAYS	3	4	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/85	194	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	92	194	1	2	TEST-SIM	NA	
ACCIDENT	175	380	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	100	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	7.7E5		1			NA	
ACC GAMMA	3.7E7	2.04E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.160-5005A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. FSK-27-7-2
4. CALCULATION NO. 12177-EQS-41

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN, BY ANALYSIS.

EQUIPMENT DESCRIPTION

EQUIP NO.: 2RHS*PV21B
SPEC NO.: C051M
SYSTEM: RESIDUAL HEAT REMOVAL

TYPE: (DESCRIPTION)
SOLENOID VALVE

MANUFACTURER: ASCO

MODEL NO.: 206-380-3RF

SAFETY FUNCTION: - - -
ISOLATION VALVE FOR
STM CONDENSING MODE OF RHS

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC175111
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE OR SPRAY

ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 4,5

QUALIFIED LIFE - - -
(YEARS): 3.0
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	6 HRS	>100 DAYS	3	4	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/85	140	1	2,4	TEST-SIM	NA	NOTE 2
ABNORMAL	92	268	1	2,4	TEST-SIM	NA	
ACCIDENT	175	346	1	2,4	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	110	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	7.7E5		1			NA	
ACC GAMMA	3.7E7	2.0E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.160-5004C
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. FSK-27-7-2
4. CALCULATION NO. 12177-EQS-16
5. ASCO INSTALLATION AND MAINTENANCE INSTRUCTION FORM V-5969 AND V-5999

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 32 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN, BY ANALYSIS.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C051MAO__ REV 0

19-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CSH*HCV133
SPEC NO.: C051M
SYSTEM: HIGH PRESSURE CORE SPRAY

TYPE: (DESCRIPTION)
LIMIT SWITCH

MANUFACTURER: NAMCO

MODEL NO.: EA740

SAFETY FUNCTION: - - -
CORE SPRAY TEST BYPASS VALVE POSITION INDICATOR

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC215122
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	12 HRS	>100 DAYS	3	4	AN+DATA	YES	- NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/93	194	1	2	TEST-SIM	NA	- NOTE 2
ABNORMAL	106	194	1	2	TEST-SIM	NA	
ACCIDENT	200	380	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	100	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	2E6		1			NA	
ACC GAMMA	3.2E7	2.04E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.160-5005A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 27-4
4. CALCULATION NO. 12177-EQS-41

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN, BY ANALYSIS.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071AAA REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS16A
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
START UNIT COOLER UPON REACHING HIGH TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABS24036

SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/88	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	88	120	1	2	NA	NA	
ACCIDENT	NA	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	NA	NA	
ACCIDENT	NA	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	NA	NA	
ACCIDENT	NA	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.8E3		1			NA	
ACC GAMMA	2.2E4	1E7	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	NA		1			NA	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C3

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071AAB REV 0

17-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS16B
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
START UNIT COOLER UPON REACHING HIGH TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABS24036
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/88	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	88	120	1	2	NA	NA	
ACCIDENT	NA	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	NA	NA	
ACCIDENT	NA	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	NA	NA	
ACCIDENT	NA	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.8E3		1			NA	
ACC GAMMA	2.2E4	1E7	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	NA		1			NA	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C3

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071AAC REV 0

17-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS19A
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
START UNIT COOLER UPON REACHING HIGH TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABN24033
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/89	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	89	120	1	2	NA	NA	
ACCIDENT	NA	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25" WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25" WG	ATMOS	1	2	NA	NA	
ACCIDENT	NA	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	NA	NA	
ACCIDENT	NA	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.8E3		1			NA	
ACC GAMMA	2.2E4	1E7	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	NA		1			NA	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C3

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071AAD REV 0

17-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS19B
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
START UNIT COOLER UPON REACHING HIGH TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABN24033
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/89	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	89	120	1	2	NA	NA	
ACCIDENT	NA	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25" WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25" WG	ATMOS	1	2	NA	NA	
ACCIDENT	NA	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	NA	NA	
ACCIDENT	NA	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.8E3		1			NA	
ACC GAMMA	2.2E4	1E7	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	NA		1			NA	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C3

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071AAE REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS22A
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
START UNIT COOLER UPON REACHING HIGH TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABN17503
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	95	120	1	2	TEST-SIM	NA	
ACCIDENT	175	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25" WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25" WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	2.6E5		4			NA	
ACC GAMMA	3.6E6	1E7	4	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	6.1E6		4			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C3
4. CALCULATION NO. 12177-PR(C)-22-0

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071AAF REV 0

17-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS22B
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
START UNIT COOLER UPON REACHING HIGH TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABN17503
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	95	120	1	2	TEST-SIM	NA	
ACCIDENT	175	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25" WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25" WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	2.6E5		4			NA	
ACC GAMMA	3.6E6	1E7	4	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	6.1E6		4			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C3
4. CALCULATION NO. 12177-PR(C)-22-0

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071AAG REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS23A
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
START UNIT COOLER UPON REACHING HIGH TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABN17504
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - -	NOTE 1
NORMAL	104/85	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	99	120	1	2	TEST-SIM	NA	
ACCIDENT	175	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - -	NOTE 1
NORMAL	-0.25" WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25" WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - -	NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - -	NOTE 1
NORM GAMMA							
ACC GAMMA	8.2E5	1E7	4	2	TEST-SIM	YES	NOTE 3
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C3
4. CALCULATION NO. 12177-EQS-50

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. COMBINED RADIATION FOR GAMMA AND BETA FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT INCLUDING APPLICABLE BETA REDUCTION IS 8.2E5 RADS.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071AAH REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS23B
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
START UNIT COOLER UPON REACHING HIGH TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABS17508
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	97	120	1	2	TEST-SIM	NA	
ACCIDENT	175	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA							
ACC GAMMA	4.79E6	1E7	4	2	TEST-SIM	YES	- NOTE 3
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C3
4. CALCULATION NO. 12177-EQS-50

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. COMBINED RADIATION FOR GAMMA AND BETA FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT INCLUDING APPLICABLE BETA REDUCTION IS 4.79E6 RADS.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071AAI REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS23C
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
START UNIT COOLER UPON REACHING HIGH TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABS17509
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	97	120	1	2	TEST-SIM	NA	
ACCIDENT	175	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA							
ACC GAMMA	7.32E6	1E7	4	2	TEST-SIM	YES	- NOTE 3
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C3
4. CALCULATION NO. 12177-EQS-50

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. COMBINED RADIATION FOR GAMMA AND BETA FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT INCLUDING APPLICABLE BETA REDUCTION IS 7.32E6 RADS.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071AAJ REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS23D
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
START UNIT COOLER UPON REACHING HIGH TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABN17504
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	99	120	1	2	TEST-SIM	NA	
ACCIDENT	175	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25" WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25" WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA							
ACC GAMMA	8.42E6	1E7	4	2	TEST-SIM	YES	- NOTE 3
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C3
4. CALCULATION NO. 12177-EQS-50

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. COMBINED RADIATION FOR GAMMA AND BETA FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT INCLUDING APPLICABLE BETA REDUCTION IS 8.42E6 RADS.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071AAK REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS23E
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
START UNIT COOLER UPON REACHING HIGH TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABS17508
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	97	120	1	2	TEST-SIM	NA	
ACCIDENT	175	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA							
ACC GAMMA	4.39E6	1E7	4	2	TEST-SIM	YES	- NOTE 3
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C3
4. CALCULATION NO. 12177-EQS-50

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. COMBINED RADIATION FOR GAMMA AND BETA FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT INCLUDING APPLICABLE BETA REDUCTION IS 4.39E6 RADS.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071AAL REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS23F
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
START UNIT COOLER UPON REACHING HIGH TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABS17509
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	97	120	1	2	TEST-SIM	NA	
ACCIDENT	175	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA							
ACC GAMMA	6.12E6	1E7	4	2	TEST-SIM	YES	- NOTE 3
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C3
4. CALCULATION NO. 12177-EQS-50

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. COMBINED RADIATION FOR GAMMA AND BETA FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT INCLUDING APPLICABLE BETA REDUCTION IS 6.12E6 RADS.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071AAM REV 0

17-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS24A
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
START UNIT COOLER UPON REACHING HIGH TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC196116
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	92	120	1	2	TEST-SIM	NA	
ACCIDENT	175	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.8E3		4			NA	
ACC GAMMA	2.9E6	1E7	4	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	6.1E6		4			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C3
4. CALCULATION NO. 12177-PR(C)-22-0

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071AAN REV 0

17-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS24B
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
START UNIT COOLER UPON REACHING HIGH TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC196116
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	92	120	1	2	TEST-SIM	NA	
ACCIDENT	175	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.8E3		4			NA	
ACC GAMMA	2.9E6	1E7	4	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	6.1E6		4			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C3
4. CALCULATION NO. 12177-PR(C)-22-0

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071AA0 REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS25A
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
START UNIT COOLER UPON REACHING HIGH TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC196116
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	92	120	1	2	TEST-SIM	NA	
ACCIDENT	175	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA							
ACC GAMMA	3.54E6	1E7	4	2	TEST-SIM	YES	- NOTE 3
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C3
4. CALCULATION NO. 12177-EQS-50

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. COMBINED RADIATION FOR GAMMA AND BETA FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT INCLUDING APPLICABLE BETA REDUCTION IS 3.54E6 RADS.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071AAP REV 0

17-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS25B
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
START UNIT COOLER UPON REACHING HIGH TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC196113
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	92	120	1	2	TEST-SIM	NA	
ACCIDENT	175	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.1E6		4			NA	
ACC GAMMA	5E5	1E7	4	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	6.1E6		4			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C3
4. CALCULATION NO. 12177-PR(C)-22-0

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071AAQ REV 0

17-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS25C
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
START UNIT COOLER UPON REACHING HIGH TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC196113
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	92	120	1	2	TEST-SIM	NA	
ACCIDENT	175	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.1E6		4			NA	
ACC GAMMA	5E5	1E7	4	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	6.1E6		4			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C3
4. CALCULATION NO. 12177-PR(C)-22-0

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071AAR REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS25D
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
START UNIT COOLER UPON REACHING HIGH TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC196116
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	92	120	1	2	TEST-SIM	NA	
ACCIDENT	175	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA							
ACC GAMMA	2.73E6	1E7	4	2	TEST-SIM	YES	- NOTE 3
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C3
4. CALCULATION NO. 12177-EQS-50

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. COMBINED RADIATION FOR GAMMA AND BETA FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT INCLUDING APPLICABLE BETA REDUCTION IS 2.73E6 RADS.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

QUAL REF #_C071AAS REV 0

SYSTEM COMPONENT EVALUATION WORK SHEET

17-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS26A
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
START UNIT COOLER UPON REACHING HIGH TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC215122
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/93	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	106	120	1	2	TEST-SIM	NA	
ACCIDENT	200	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	2E6		4			NA	
ACC GAMMA	1E6	1E7	4	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	6.1E6		4			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C3
4. CALCULATION NO. 12177-PR(C)-22-0

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071AAT REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS26B
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
START UNIT COOLER UPON REACHING HIGH TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC215122
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/93	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	106	120	1	2	TEST-SIM	NA	
ACCIDENT	200	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA							
ACC GAMMA	5.51E6	1E7	4	2	TEST-SIM	YES	- NOTE 3
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C3
4. CALCULATION NO. 12177-EQS-50

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. COMBINED RADIATION FOR GAMMA AND BETA FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT INCLUDING APPLICABLE BETA REDUCTION IS 5.51E6 RADS.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071AAU REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS26C
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
START UNIT COOLER UPON REACHING HIGH TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC215122
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/93	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	106	120	1	2	TEST-SIM	NA	
ACCIDENT	200	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	2E6		4			NA	
ACC GAMMA	1.3E6	1E7	4	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	6.1E6		4			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C3
4. CALCULATION NO. 12177-PR(C)-22-0

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071AAV REV 0

17-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS26D
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
START UNIT COOLER UPON REACHING HIGH TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC215122
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/93	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	106	120	1	2	TEST-SIM	NA	
ACCIDENT	200	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	2E6		4			NA	
ACC GAMMA	9.3E5	1E7	4	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	6.1E6		4			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C3
4. CALCULATION NO. 12177-PR(C)-22-0

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071AAW REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS26E
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
START UNIT COOLER UPON REACHING HIGH TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC215122
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/93	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	106	120	1	2	TEST-SIM	NA	
ACCIDENT	200	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA							
ACC GAMMA	3.91E6	1E7	4	2	TEST-SIM	YES	- NOTE 3
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C3
4. CALCULATION NO. 12177-EQS-50

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. COMBINED RADIATION FOR GAMMA AND BETA FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT INCLUDING APPLICABLE BETA REDUCTION IS 3.91E6 RADS.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071AAX REV 0

17-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS27A
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
START UNIT COOLER UPON REACHING HIGH TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC240135
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/88	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	94	120	1	2	TEST-SIM	NA	
ACCIDENT	175	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	5.1E5		4			NA	
ACC GAMMA	6.9E5	1E7	4	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	6.1E6		4			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C3
4. CALCULATION NO. 12177-PR(C)-22-0

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

QUAL REF #_C071AAY REV 0

SYSTEM COMPONENT EVALUATION WORK SHEET

17-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS27B
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
START UNIT COOLER UPON REACHING HIGH TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC240135
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/88	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	94	120	1	2	TEST-SIM	NA	
ACCIDENT	175	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	5.1E5		4			NA	
ACC GAMMA	7.4E5	1E7	4	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	6.1E6		4			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C3
4. CALCULATION NO. 12177-PR(C)-22-0

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071AAZ REV 0

17-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS27C
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
START UNIT COOLER UPON REACHING HIGH TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC240135
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/88	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	94	120	1	2	TEST-SIM	NA	
ACCIDENT	175	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	5.1E5		4			NA	
ACC GAMMA	2.1E6	1E7	4	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	6.1E6		4			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C3
4. CALCULATION NO. 12177-PR(C)-22-0

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071ABA REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS28A
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
START UNIT COOLER UPON REACHING HIGH TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC261145
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	87	120	1	2	TEST-SIM	NA	
ACCIDENT	200	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA							
ACC GAMMA	3.26E6	1E7	4	2	TEST-SIM	YES	- NOTE 3
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C3
4. CALCULATION NO. 12177-EQS-50

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. COMBINED RADIATION FOR GAMMA AND BETA FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT INCLUDING APPLICABLE BETA REDUCTION IS 3.26E6 RADS.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071ABB REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS28B
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
START UNIT COOLER UPON REACHING HIGH TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC261145
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	87	120	1	2	TEST-SIM	NA	
ACCIDENT	200	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA							
ACC GAMMA	3.26E6	1E7	4	2	TEST-SIM	YES	- NOTE 3
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C3
4. CALCULATION NO. 12177-EQS-50

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. COMBINED RADIATION FOR GAMMA AND BETA FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT INCLUDING APPLICABLE BETA REDUCTION IS 3.26E6 RADS.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071ABC REV 0

17-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS28C
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
START UNIT COOLER UPON REACHING HIGH TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC261145
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	87	120	1	2	TEST-SIM	NA	
ACCIDENT	200	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1E6		4			NA	
ACC GAMMA	1.2E6	1E7	4	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	6.1E6		4			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C3
4. CALCULATION NO. 12177-PR(C)-22-0

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

QUAL REF #_C071ABD REV 0

SYSTEM COMPONENT EVALUATION WORK SHEET

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS30A
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
START UNIT COOLER UPON REACHING HIGH TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC175106
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	86	120	1	2	TEST-SIM	NA	
ACCIDENT	325	255	1	2,5	AN + DATA	NA	- NOTE 3
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	3.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	2.4E4		4			NA	
ACC GAMMA	8.3E5	1E7	4	2	TEST-SIM	YES	
NORM BETA	NA					NA	
ACC BETA	6.1E6		4			YES	
NEUTRON	NA					NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C3
4. CALCULATION NO. 12177-PR(C)-22-0
5. LOGIC DRAWING NO. 12177-LSK-22-1S

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. UNIT COOLER IS NORMALLY OPERATED VIA TEMPERATURE INDICATING SWITCH. HOWEVER, DURING THE DBA OR IN ANY OTHER EVENT, IF THE TEMPERATURE INDICATING SWITCH FAILS, THE CONTROL ROOM OPERATOR CAN OPERATE THE UNIT COOLER VIA A CONTROL SWITCH MOUNTED ON THE CONTROL PANEL. SEE REFERENCE 5.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

20-Mar-85

QUAL REF #_C071ABE REV 0

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS30B
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
START UNIT COOLER UPON REACHING HIGH TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC175106
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	86	120	1	2	TEST-SIM	NA	
ACCIDENT	325	255	1	2,5	AN + DATA	NA	- NOTE 3
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	3.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	2.4E4		4			NA	
ACC GAMMA	1.1E6	1E7	4	2	TEST-SIM	YES	
NORM BETA	NA					NA	
ACC BETA	6.1E6		4			YES	
NEUTRON	NA					NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C3
4. CALCULATION NO. 12177-PR(C)-22-0
5. LOGIC DRAWING NO. 12177-LSK-22-1S

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. UNIT COOLER IS NORMALLY OPERATED VIA TEMPERATURE INDICATING SWITCH, HOWEVER, DURING THE DBA OR IN ANY OTHER EVENT, IF THE TEMPERATURE INDICATING SWITCH FAILS, THE CONTROL ROOM OPERATOR CAN OPERATE THE UNIT COOLER VIA A CONTROL SWITCH MOUNTED ON THE CONTROL PANEL. SEE REFERENCE 5.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071ABF REV 0

17-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS31A
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
SENSE INLET AIR TEMPERATURE FOR 2HVR*UC413A

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC289155
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/95	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	139	139	1	2,5	TEST-SIM	NA	
ACCIDENT	175	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.8E6		4			NA	
ACC GAMMA	7.1E5	1E7	4	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	6.1E6		4			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C2
4. CALCULATION NO. 12177-PR(C)-22-0
5. CALCULATION NO. 12177-EQS-31

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071ABG REV 0

17-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS31B
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
SENSE INLET AIR TEMPERATURE FOR 2HVR*UC413B

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC289155
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/95	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	139	139	1	2,5	TEST-SIM	NA	
ACCIDENT	175	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.8E6		4			NA	
ACC GAMMA	9.7E5	1E7	4	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	6.1E6		4			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C2
4. CALCULATION NO. 12177-PR(C)-22-0
5. CALCULATION NO. 12177-EQS-31

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071ABH REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS35A
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
START UNIT COOLER UPON REACHING HIGH TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC261145
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	87	120	1	2	TEST-SIM	NA	
ACCIDENT	200	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA							
ACC GAMMA	3.26E6	1E7	4	2	TEST-SIM	YES	- NOTE 3
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C3
4. CALCULATION NO. 12177-EQS-50

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. COMBINED RADIATION FOR GAMMA AND BETA FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT INCLUDING APPLICABLE BETA REDUCTION IS 3.26E6 RADS.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071ABI REV 0

17-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS35B
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
START UNIT COOLER UPON REACHING HIGH TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC261145
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	87	120	1	2	TEST-SIM	NA	
ACCIDENT	200	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1E6		4			NA	
ACC GAMMA	9.7E5	1E7	4	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	6.1E6		4			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C3
4. CALCULATION NO. 12177-PR(C)-22-0

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071ABJ REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS38A
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
START UNIT COOLER UPON REACHING HIGH TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SG261355
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	85	120	1	2	TEST-SIM	NA	
ACCIDENT	NA	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	ATMOS	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	ATMOS	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	NA	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	TEST-SIM	NA	
ACCIDENT	NA	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	2.67E3		1			NA	
ACC GAMMA	3.63E6	1E7	4	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.03E2		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C3
4. CALCULATION NO. 12177-PR(C)-22-K

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071ABK REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS38B
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
START UNIT COOLER UPON REACHING HIGH TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SG261356
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-SIM	NA	- NOTE 2 .
ABNORMAL	85	120	1	2	TEST-SIM	NA	
ACCIDENT	NA	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	ATMOS	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	ATMOS	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	NA	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	TEST-SIM	NA	
ACCIDENT	NA	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	2.67E3		1			NA	
ACC GAMMA	3.63E6	1E7	4	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.03E2		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C3
4. CALCULATION NO. 12177-PR(C)-22-K

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

20-Mar-85

QUAL REF #_C071ABL REV 0

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS115
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
START UNIT COOLER UPON REACHING HIGH TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABS19620
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/89	120	1	2	TEST-SIM	NA	- NOTE 2
ABNORMAL	107	120	1	2	TEST-SIM	NA	
ACCIDENT	175	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA							
ACC GAMMA	4.69E6	1E7	4	2	TEST-SIM	YES	- NOTE 3
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C3
4. CALCULATION NO. 12177-EQS-50

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. COMBINED RADIATION FOR GAMMA AND BETA FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT INCLUDING APPLICABLE BETA REDUCTION IS 4.69E6 RADS.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071ABM REV 0

17-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*TIS116
SPEC NO.: C071A
SYSTEM: REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
START UNIT COOLER UPON REACHING HIGH TEMPERATURE

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABN19615
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/87	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	104	120	1	2	TEST-SIM	NA	
ACCIDENT	175	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25" WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25" WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.1E6		4			NA	
ACC GAMMA	2.2E6	1E7	4	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	6.1E6		4			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE-07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C3
4. CALCULATION NO. 12177-PR(C)-22-0

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071ABN____ REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*FE18A
SPEC NO.: C071A
SYSTEM:
REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
FLOW ELEMENT

MANUFACTURER:
FLUID COMPONENTS INC.
MODEL NO.: FR-72-4

SAFETY FUNCTION: - - -
SENSE DISCHARGE AIR FLOW AND
INLET AIR TEMP FOR
2HVR*UC413A & B
OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC289155
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20 YEARS
REFERENCE: 4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2,5	AN + DATA	YES	- NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/95	104	1	2,4	TEST-SIM	NA	- NOTE 2
ABNORMAL	139	139	1	2,4	TEST-SIM	NA	
ACCIDENT	175	340	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	43	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.8E6		1			NA	
ACC GAMMA	6.1E7	1E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 07.114-5000E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C2
4. CALCULATION NO. 12177-EQS-31
5. CALCULATION NO. 12177-EQS-32

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 100 HOURS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS. SEE REF 5.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071ABO____ REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*FE18B
SPEC NO.: C071A
SYSTEM:
REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
FLOW ELEMENT

MANUFACTURER:
FLUID COMPONENTS INC.
MODEL NO.: FR-72-4

SAFETY FUNCTION: - - -
SENSE DISCHARGE AIR FLOW AND
INLET AIR TEMP FOR
2HVR*UC413A & B
OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC289155
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20 YEARS
REFERENCE: 4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2,5	AN + DATA	YES	- NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/95	104	1	2,4	TEST-SIM	NA	- NOTE 2
ABNORMAL	139	139	1	2,4	TEST-SIM	NA	
ACCIDENT	175	340	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	43	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.8E6		1			NA	
ACC GAMMA	6.1E7	1E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 07.114-5000E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C2
4. CALCULATION NO. 12177-EQS-31
5. CALCULATION NO. 12177-EQS-32

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 100 HOURS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS. SEE REF 5.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071ABP____ REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*FE18C
SPEC NO.: C071A
SYSTEM:
REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
FLOW ELEMENT

MANUFACTURER:
FLUID COMPONENTS INC.
MODEL NO.: FR-72-4

SAFETY FUNCTION: - - -
SENSE DISCHARGE AIR FLOW AND
INLET AIR TEMP FOR
2HVR*UC413A & B
OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC289155
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20 YEARS
REFERENCE: 4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2,5	AN + DATA	YES	- NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/95	104	1	2,4	TEST-SIM	NA	- NOTE 2
ABNORMAL	139	139	1	2,4	TEST-SIM	NA	
ACCIDENT	175	340	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	43	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.8E6		1			NA	
ACC GAMMA	6.1E7	1E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 07.114-5000E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C2
4. CALCULATION NO. 12177-EQS-31
5. CALCULATION NO. 12177-EQS-32

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 100 HOURS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS. SEE REF 5.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071ABQ____ REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*FE18D
SPEC NO.: C071A
SYSTEM:
REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
FLOW ELEMENT

MANUFACTURER:
FLUID COMPONENTS INC.
MODEL NO.: FR-72-4

SAFETY FUNCTION: - - -
SENSE DISCHARGE AIR FLOW AND
INLET AIR TEMP FOR
2HVR*UC413A & B
OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC289155
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20 YEARS
REFERENCE: 4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2,5	AN + DATA	YES	- NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/95	104	1	2,4	TEST-SIM	NA	- NOTE 2
ABNORMAL	139	139	1	2,4	TEST-SIM	NA	
ACCIDENT	175	340	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	43	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.8E6		1			NA	
ACC GAMMA	6.1E7	1E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 07.114-500QE
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C2
4. CALCULATION NO. 12177-EQS-31
5. CALCULATION NO. 12177-EQS-32

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 100 HOURS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS. SEE REF 5.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071ABR____ REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*FE36A
SPEC NO.: C071A
SYSTEM:
REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
FLOW ELEMENT

MANUFACTURER:
FLUID COMPONENTS INC.
MODEL NO.: FR-72-4

SAFETY FUNCTION: - - -
SENSE AIR FLOW THROUGH NORMAL VENTILATION EXHAUST ABOVE AND BELOW REFUELING FLOOR
OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC353202
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20 YEARS
REFERENCE: 4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2,5	AN + DATA	YES	- NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/77	104	1	2,4	TEST-SIM	NA	- NOTE 2
ABNORMAL	79	139	1	2,4	TEST-SIM	NA	
ACCIDENT	175	340	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	.25	43	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	7E5		1			NA	
ACC GAMMA	2.6E6	1E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 07.114-5000E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C1
4. CALCULATION NO. 12177-EQS-31
5. CALCULATION NO. 12177-EQS-32

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 100 HOURS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS. SEE REF 5.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071ABS____ REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*FE36B
SPEC NO.: C071A
SYSTEM:
REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
FLOW ELEMENT

MANUFACTURER:
FLUID COMPONENTS INC.
MODEL NO.: FR-72-4

SAFETY FUNCTION: - - -
SENSE AIR FLOW THROUGH NORMAL VENTILATION EXHAUST ABOVE AND BELOW REFUELING FLOOR
OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC353202
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20 YEARS
REFERENCE: 4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2,5	AN + DATA	YES	- NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/77	104	1	2,4	TEST-SIM	NA	- NOTE 2
ABNORMAL	79	139	1	2,4	TEST-SIM	NA	
ACCIDENT	175	340	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	.25	43	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	7E5		1			NA	
ACC GAMMA	2.6E6	1E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 07.114-5000E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C1
4. CALCULATION NO. 12177-EQS-31
5. CALCULATION NO. 12177-EQS-32

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 100 HOURS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS. SEE REF 5.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071ABT____ REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*FE37A
SPEC NO.: C071A
SYSTEM:
REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
FLOW ELEMENT

MANUFACTURER:
FLUID COMPONENTS INC.
MODEL NO.: FR-72-4

SAFETY FUNCTION: - - -
SENSE AIR FLOW THROUGH NORMAL VENTILATION EXHAUST ABOVE AND BELOW REFUELING FLOOR
OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC289155
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20 YEARS
REFERENCE: 4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2,5	AN + DATA	YES	- NOTE 3
TEMP (F):	- - - - -	- - - - - -	- - - - -	- - - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/95	104	1	2,4	TEST-SIM	NA	- NOTE 2
ABNORMAL	139	139	1	2,4	TEST-SIM	NA	
ACCIDENT	175	340	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - - -	- - - - -	- - - - - -	- - - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	43	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - - -	- - - - -	- - - - - -	- - - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - - -	- - - - -	- - - - - -	- - - - - -	- - -	- NOTE 1
NORM GAMMA	1.8E6		1			NA	
ACC GAMMA	6.1E7	1E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 07.114-5000E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C2
4. CALCULATION NO. 12177-EQS-31
5. CALCULATION NO. 12177-EQS-32

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 100 HOURS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS. SEE REF 5.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071ABU____ REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HVR*FE37B
SPEC NO.: C071A
SYSTEM:
REACTOR BUILDING VENTILATION

TYPE: (DESCRIPTION)
FLOW ELEMENT

MANUFACTURER:
FLUID COMPONENTS INC.
MODEL NO.: FR-72-4

SAFETY FUNCTION: - - -
SENSE AIR FLOW THROUGH NORMAL VENTILATION EXHAUST ABOVE AND BELOW REFUELING FLOOR
OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC289155
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20 YEARS
REFERENCE: 4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2,5	AN + DATA	YES	- NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/95	104	1	2,4	TEST-SIM	NA	- NOTE 2
ABNORMAL	139	139	1	2,4	TEST-SIM	NA	
ACCIDENT	175	340	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	-.25"WG	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	2.8	43	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.8E6		1			NA	
ACC GAMMA	6.1E7	1E8	1	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 07.114-5000E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 22-1-C2
4. CALCULATION NO. 12177-EQS-31
5. CALCULATION NO. 12177-EQS-32

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. OPERABILITY PERIOD EXTENDED FROM 100 HOURS TESTED VALUE TO 100 DAYS PLUS MARGIN BY ANALYSIS. SEE REF 5.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071ABV____ REV 0

13-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2GTS*TIS29A
SPEC NO.: C071A
SYSTEM:
STANDBY GAS TREATMENT

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
MEASURE TEMP. OF CHARCOAL ABSORBER AND ACTUATE FILTER TRAIN
OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SG261356
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	85	120	1	2	TEST-SIM	NA	
ACCIDENT	NA	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	ATMOS	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	ATMOS	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	NA	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	TEST-SIM	NA	
ACCIDENT	NA	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	2.67E3		1			NA	
ACC GAMMA	9.57E6	1E7	4	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.03E2		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA		NA	
SUBMERGENCE	NA	NA	NA	NA		NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 27-15-8
4. CALCULATION NO. 12177-PR(C)-22-K.

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071ABW____ REV 0

13-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2GTS*TIS29B
SPEC NO.: C071A
SYSTEM:
STANDBY GAS TREATMENT

TYPE: (DESCRIPTION)
TEMPERATURE SWITCH

MANUFACTURER: UNITED ELECTRIC

MODEL NO.: 802P-5AS

SAFETY FUNCTION: - - -
MEASURE TEMP. OF CHARCOAL
ABSORBER AND ACTUATE FILTER
TRAIN
OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SG261355
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE OR SPRAY.

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	85	120	1	2	TEST-SIM	NA	
ACCIDENT	NA	255	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - - -	- - -	- NOTE 1
NORMAL	ATMOS	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	ATMOS	ATMOS	1	2	TEST-SIM	NA	
ACCIDENT	NA	18	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - - -	- - -	- NOTE 1
NORMAL	50	59	1	2	TEST-SIM	NA	
ABNORMAL	50	59	1	2	TEST-SIM	NA	
ACCIDENT	NA	100	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - - -	- - -	- NOTE 1
NORM GAMMA	2.67E3		1			NA	
ACC GAMMA	9.57E6	1E7	4	2	TEST-SIM	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.03E2		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	NA	NA	NA		NA	
SUBMERGENCE	NA	NA	NA	NA		NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 07.144-5000A
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 27-15-8
4. CALCULATION NO. 12177-PR(C)-22-K

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MAA____ REV 0

19-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CCP*PT90A
SPEC NO.: C071M
SYSTEM: REACTOR PLANT COMPONENT COOLING WATER SYSTEM
TYPE: (DESCRIPTION) PRESSURE TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153GB7

SAFETY FUNCTION: - - - TRANSMIT RBCLCW TO 2RCS-P1A CLRS

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 3.7% CALIB SPAN

ZONE NO.: SC261145
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY: ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-IDENT	NA	NOTE 2
ABNORMAL	87	120	1	2	TEST-IDENT	NA	
ACCIDENT	200	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	2.0E6		1			NA	
ACC GAMMA	4.3E6	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 9-1-C1
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MAB____ REV 0

19-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CCP*PT90B
SPEC NO.: C071M
SYSTEM: REACTOR PLANT COMPONENT COOLING WATER SYSTEM
TYPE: (DESCRIPTION) PRESSURE TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153GB7

SAFETY FUNCTION: - - - TRANSMIT RBCLCW TO 2RCS-P1A CLRS

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 3.5% CALIB SPAN

ZONE NO.: SC240135
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY: ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/88	120	1	2	TEST-IDENT	NA	NOTE 2
ABNORMAL	94	120	1	2	TEST-IDENT	NA	
ACCIDENT	175	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	2.55E5		1			NA	
ACC GAMMA	5.0E5	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 9-1-C2
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MAC____ REV 0

19-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*LT9A
SPEC NO.: C071M
SYSTEM: CONTAINMENT ATMOSPHERE MONITORING SYSTEM
TYPE: (DESCRIPTION) LEVEL TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153DB5

SAFETY FUNCTION: - - - TRANSMIT SUPPRESSION POOL LEVEL

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 3.6% CALIB SPAN

ZONE NO.: SC175102
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY: ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-IDENT	NA	NOTE 2
ABNORMAL	92	120	1	2	TEST-IDENT	NA	
ACCIDENT	175	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	5.5E6		1			NA	
ACC GAMMA	1.6E7	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 33-2-G5
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MAD____ REV 0

23-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*LT9B
SPEC NO.: C071M
SYSTEM: CONTAINMENT ATMOSPHERE MONITORING SYSTEM
TYPE: (DESCRIPTION) LEVEL TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153DB5

SAFETY FUNCTION: - - - TRANSMIT SUPPRESSION POOL LEVEL

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 3.6% CALIB SPAN

ZONE NO.: SC175102
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-IDENT	NA	NOTE 2
ABNORMAL	92	120	1	2	TEST-IDENT	NA	
ACCIDENT	175	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	5.5E6		1			NA	
ACC GAMMA	1.6E7	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	- NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 33-2-65
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MAE____ REV 0

23-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*LT11A
SPEC NO.: C071M
SYSTEM: CONTAINMENT ATMOSPHERE MONITORING SYSTEM
TYPE: (DESCRIPTION) LEVEL TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153DB4

SAFETY FUNCTION: - - - TRANSMIT SUPPRESSION POOL LEVEL

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 3.6% CALIB SPAN

ZONE NO.: SC175102
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY: ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/85	120	1	2	TEST-IDENT	NA	NOTE 2
ABNORMAL	92	120	1	2	TEST-IDENT	NA	
ACCIDENT	175	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	5.5E6		1			NA	
ACC GAMMA	1.6E7	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 33-2-C7
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MAF____ REV 0

23-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*LT11B
SPEC NO.: C071M
SYSTEM: CONTAINMENT ATMOSPHERE MONITORING SYSTEM
TYPE: (DESCRIPTION) LEVEL TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153DB4

SAFETY FUNCTION: - - - TRANSMIT SUPPRESSION POOL LEVEL

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 3.6% CALIB SPAN

ZONE NO.: SC175102
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY: ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-IDENT	NA	NOTE 2
ABNORMAL	92	120	1	2	TEST-IDENT	NA	
ACCIDENT	175	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	5.5E6		1			NA	
ACC GAMMA	1.6E7	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 33-2-C7
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MAG____ REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*PT1A
SPEC NO.: C071M
SYSTEM: CONTAINMENT ATMOSPHERE MONITORING SYSTEM
TYPE: (DESCRIPTION) PRESSURE TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153GB5

SAFETY FUNCTION: - - - TRANSMIT CONTAINMENT DRYWELL PRESS

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 6.0% CALIB SPAN

ZONE NO.: SC289155
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY: ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/95	120	1	2	TEST-IDENT	NA	- NOTE 2
ABNORMAL	139	139	1	2,4	AN + DATA	NA	
ACCIDENT	175	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	9.0E5		1			NA	
ACC GAMMA	6.19E5	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	- NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 33-2-C1
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MAH____ REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*PT1B
SPEC NO.: C071M
SYSTEM: CONTAINMENT ATMOSPHERE MONITORING SYSTEM
TYPE: (DESCRIPTION) PRESSURE TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153GB5

SAFETY FUNCTION: - - - TRANSMIT CONTAINMENT DRYWELL PRESS

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 6.0% CALIB SPAN

ZONE NO.: SC289155
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY: ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/95	120	1	2	TEST-IDENT	NA	NOTE 2
ABNORMAL	139	139	1	2,4	AN + DATA	NA	
ACCIDENT	175	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	9.0E5		1			NA	
ACC GAMMA	1.63E6	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	- NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 33-2-C1
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MAI____ REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*PT2A
SPEC NO.: C071M
SYSTEM: CONTAINMENT ATMOSPHERE MONITORING SYSTEM
TYPE: (DESCRIPTION) PRESSURE TRANSMITTER
MANUFACTURER: ROSEMOUNT
MODEL NO.: 1153GB7
SAFETY FUNCTION: - - - TRANSMIT CONTAINMENT DRYWELL PRESS
OP. CODE: A
ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 4.8% CALIB SPAN
ZONE NO.: SC261145
SUBMERGENCE: NA
SPRAY: NA
EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY
DOCUMENTATION ACCEPTABILITY: ACCEPTABLE TO NUREG 0588,CAT I
MAINT/SURVEILL - - -
REFERENCE: 2
QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-IDENT	NA	NOTE 2
ABNORMAL	87	120	1	2	TEST-IDENT	NA	
ACCIDENT	200	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	3.96E6		1			NA	
ACC GAMMA	7.92E5	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 33-2-C2
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MAJ____ REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*PT2B
SPEC NO.: C071M
SYSTEM: CONTAINMENT ATMOSPHERE MONITORING SYSTEM
TYPE: (DESCRIPTION) PRESSURE TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153GB7

SAFETY FUNCTION: - - - TRANSMIT CONTAINMENT DRYWELL PRESS

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 4.8% CALIB SPAN

ZONE NO.: SC261145
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY: ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-IDENT	NA	- NOTE 2
ABNORMAL	87	120	1	2	TEST-IDENT	NA	
ACCIDENT	200	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - -	- NOTE 1
NORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - -	- NOTE 1
NORM GAMMA	3.96E6		1			NA	
ACC GAMMA	7.92E5	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	- NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 33-2-C2
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MAK____ REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*PT7A
SPEC NO.: C071M
SYSTEM: CONTAINMENT ATMOSPHERE MONITORING SYSTEM
TYPE: (DESCRIPTION) PRESSURE TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153GB7

SAFETY FUNCTION: - - - TRANSMIT SUPPRESSION CHAMBER PRESS

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 4.5% CALIB SPAN

ZONE NO.: SC240135
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY: ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-IDENT	NA	NOTE 2
ABNORMAL	87	120	1	2	TEST-IDENT	NA	
ACCIDENT	200	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	2.56E5		1			NA	
ACC GAMMA	5.0E5	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 33-2-C4
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MAL____ REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CMS*PT7B
SPEC NO.: C071M
SYSTEM: CONTAINMENT ATMOSPHERE MONITORING SYSTEM
TYPE: (DESCRIPTION) PRESSURE TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153GB7

SAFETY FUNCTION: - - - TRANSMIT SUPPRESSION CHAMBER PRESS

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 4.8% CALIB SPAN

ZONE NO.: SC261145
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY: ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-IDENT	NA	NOTE 2
ABNORMAL	87	120	1	2	TEST-IDENT	NA	
ACCIDENT	200	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	3.96E6		1			NA	
ACC GAMMA	7.29E5	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	- NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 33-2-C4
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MAM____ REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2IAS*PT181
SPEC NO.: C071M
SYSTEM: INSTRUMENT AIR SYSTEM

TYPE: (DESCRIPTION)
PRESSURE TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153GB8

SAFETY FUNCTION: - - -
TRANSMIT ADS HEADER A PRESSURE

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 8.8% CALIB SPAN

ZONE NO.: SC289155
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/95	120	1	2	TEST-IDENT	NA	NOTE 2
ABNORMAL	139	139	1	2,4	AN + DATA	NA	
ACCIDENT	175	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	9.0E5		1			NA	
ACC GAMMA	6.19E5	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 12-C-36
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MAN____ REV 0

23-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2IAS*PT186
SPEC NO.: C071M
SYSTEM: CONTAINMENT ATMOSPHERE MONITORING SYSTEM
TYPE: (DESCRIPTION) PRESSURE TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153GB8

SAFETY FUNCTION: - - - TRANSMIT ADS HEADER B PRESSURE

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 8.8% CALIB SPAN

ZONE NO.: SC289155
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY: ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/95	120	1	2	TEST-IDENT	NA	NOTE 2
ABNORMAL	139	139	1	2,4	AN + DATA	NA	
ACCIDENT	175	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	9.0E5		1			NA	
ACC GAMMA	6.19E5	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	- NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 12-1-C38
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MAD____ REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2IAS*PT230
SPEC NO.: C071M
SYSTEM: INSTRUMENT AIR SYSTEM

TYPE: (DESCRIPTION)
PRESSURE TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153GB7PA

SAFETY FUNCTION: - - -
TRANSMIT ADS ACCUMULATOR TK32

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 2.3% CALIB SPAN

ZONE NO.: SC289155
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/95	120	1	2	TEST-IDENT	NA	NOTE 2
ABNORMAL	139	139	1	2,4	AN + DATA	NA	
ACCIDENT	175	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	9.0E5		1			NA	
ACC GAMMA	9.5E5	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 12-1-C37
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MAP____ REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2IAS*PT231
SPEC NO.: C071M
SYSTEM: INSTRUMENT AIR SYSTEM

TYPE: (DESCRIPTION)
PRESSURE TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153GB7PA

SAFETY FUNCTION: - - -
TRANSMIT ADS ACCUMULATOR TK33

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 2.3% CALIB SPAN

ZONE NO.: SC289155
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - -	- NOTE 1
NORMAL	104/95	120	1	2	TEST-IDENT	NA	NOTE 2
ABNORMAL	139	139	1	2,4	AN + DATA	NA	
ACCIDENT	175	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - -	- NOTE 1
NORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - -	- NOTE 1
NORM GAMMA	9.0E5		1			NA	
ACC GAMMA	8.5E5	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 12-1-C37
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MAQ____ REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2IAS*PT232
SPEC NO.: C071M
SYSTEM: INSTRUMENT AIR SYSTEM

TYPE: (DESCRIPTION)
PRESSURE TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153GB7PA

SAFETY FUNCTION: - - -
TRANSMIT ADS ACCUMULATOR TK34

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 2.32% CALIB SPAN

ZONE NO.: SC289155
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY: ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/95	120	1	2	TEST-IDENT	NA	NOTE 2
ABNORMAL	139	139	1	2,4	AN + DATA	NA	
ACCIDENT	175	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	9.0E5		1			NA	
ACC GAMMA	7.1E5	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	- NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 12-1-C37
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MAR____ REV 0

23-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2IAS*PT233
SPEC NO.: C071M
SYSTEM: INSTRUMENT AIR SYSTEM

TYPE: (DESCRIPTION)
PRESSURE TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153GB7PA

SAFETY FUNCTION: - - -
TRANSMIT ADS ACCUMULATOR TK35

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 2.3% CALIB SPAN

ZONE NO.: SC306175
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,5	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - - -	- - -	- NOTE 1
NORMAL	104/95	120	1	2	TEST-IDENT	NA	NOTE 2
ABNORMAL	139	139	1	2,4	TEST-IDENT	NA	
ACCIDENT	175	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - - -	- - -	- NOTE 1
NORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - - -	- - -	- NOTE 1
NORM GAMMA	5.5E5		1			NA	
ACC GAMMA	2.6E6	2.2E7	1	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	- NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 12-1-C37
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MAS____ REV 0

23-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2IAS*PT234
SPEC NO.: C071M
SYSTEM: INSTRUMENT AIR SYSTEM

TYPE: (DESCRIPTION)
PRESSURE TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153GB7PA

SAFETY FUNCTION: - - -
TRANSMIT ADS ACCUMULATOR TK36

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 2.3% CALIB SPAN

ZONE NO.: SC306175
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,5	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/95	120	1	2	TEST-IDENT	NA	NOTE 2
ABNORMAL	139	139	1	2,4	AN + DATA	NA	
ACCIDENT	175	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	5.5E5		1			NA	
ACC GAMMA	2.6E6	2.2E7	1	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 12-1-C37
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MAT____ REV 0

25-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2IAS*PT235
SPEC NO.: C071M
SYSTEM: INSTRUMENT AIR SYSTEM

TYPE: (DESCRIPTION)
PRESSURE TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153GB7PA

SAFETY FUNCTION: - - -
TRANSMIT ADS ACCUMULATOR TK37

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 2.3% CALIB SPAN

ZONE NO.: SC306175
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,5	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/95	120	1	2	TEST-IDENT	NA	NOTE 2
ABNORMAL	139	139	1	2,4	AN + DATA	NA	
ACCIDENT	175	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	5.5E5		1			NA	
ACC GAMMA	2.6E6	2.2E7	1	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	- NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 12-1-C37
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MAU____ REV 0

25-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2IAS*PT236
SPEC NO.: C071M
SYSTEM: INSTRUMENT AIR SYSTEM

TYPE: (DESCRIPTION)
PRESSURE TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153GB7PA

SAFETY FUNCTION: - - -
TRANSMIT ADS ACCUMULATOR TK38

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 2.3% CALIB SPAN

ZONE NO.: SC306175
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,5	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/95	120	1	2	TEST-IDENT	NA	NOTE 2
ABNORMAL	139	139	1	2,4	AN + DATA	NA	
ACCIDENT	175	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	5.5E5		1			NA	
ACC GAMMA	2.6E6	2.2E7	1	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	- NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 12-1-C37
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MAV____ REV 0

19-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2RHS*FT60A
SPEC NO.: C071M
SYSTEM: INSTRUMENT AIR SYSTEM

TYPE: (DESCRIPTION)
FLOW TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153DB5PA

SAFETY FUNCTION: - - -
TRANSMIT RHS HX DISCHARGE FLOW

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 2.8% CALIB SPAN

ZONE NO.: SC175105
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY: ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-IDENT	NA	NOTE 2
ABNORMAL	92	120	1	2	TEST-IDENT	NA	
ACCIDENT	175	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	3.8E6		1			NA	
ACC GAMMA	1.6E7	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 27-7-C7
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MAW____ REV 0

25-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2RHS*FT60B
SPEC NO.: C071M
SYSTEM: RESIDUAL HEAT REMOVAL SYSTEM

TYPE: (DESCRIPTION)
FLOW TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153DB5PA

SAFETY FUNCTION: - - -
TRANSMIT RHS HX DISCHARGE FLOW

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 2.8% CALIB SPAN

ZONE NO.: SC175111
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,5	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-IDENT	NA	NOTE 2
ABNORMAL	92	120	1	2	TEST-IDENT	NA	
ACCIDENT	175	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"WG	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	2.8E6		1			NA	
ACC GAMMA	1.6E7	2.2E7	4	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 27-7-C7
4. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
5. EXTENDED POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MAX____ REV 0

19-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2RHS*FT63A
SPEC NO.: C071M
SYSTEM: RESIDUAL HEAT REMOVAL SYSTEM

TYPE: (DESCRIPTION)
FLOW TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153DB4PA

SAFETY FUNCTION: - - -
TRANSMIT RHSA CONTAINMENT SPRAY FLOW

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 5.0% CALIB SPAN

ZONE NO.: SC261145
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-IDENT	NA	NOTE 2
ABNORMAL	87	120	1	2,4	TEST-IDENT	NA	
ACCIDENT	200	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	4.0E6		1			NA	
ACC GAMMA	9.9E5	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 27-7-C1
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MAY____ REV 0

19-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2RHS*FT63B
SPEC NO.: C071M
SYSTEM: RESIDUAL HEAT REMOVAL SYSTEM

TYPE: (DESCRIPTION)
FLOW TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153DB4PA

SAFETY FUNCTION: - - -
TRANSMIT RHSA CONTAINMENT SPRAY FLOW

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 5.0% CALIB SPAN

ZONE NO.: SC261145
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-IDENT	NA	NOTE 2
ABNORMAL	87	120	1	2,4	TEST-IDENT	NA	
ACCIDENT	200	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	4.0E6		1			NA	
ACC GAMMA	8.9E5	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 27-7-C1
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MAZ____ REV 0

19-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2RHS*FT63B
SPEC NO.: C071M
SYSTEM: RESIDUAL HEAT REMOVAL SYSTEM

TYPE: (DESCRIPTION)
FLOW TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153DB5PA

SAFETY FUNCTION: - - -
TRANSMIT RHS A SUPP POOL SPRAY POOL

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 3.9% CALIB SPAN

ZONE NO.: SC215122
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/93	120	1	2	TEST-IDENT	NA	NOTE 2
ABNORMAL	106	120	1	2,4	TEST-IDENT	NA	
ACCIDENT	200	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	1.0E6		1			NA	
ACC GAMMA	1.7E7	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 27-7-C1
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MAZ____ REV 0

25-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2RHS*FT64A
SPEC NO.: C071M
SYSTEM: RESIDUAL HEAT REMOVAL SYSTEM

TYPE: (DESCRIPTION)
FLOW TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153DB5PA

SAFETY FUNCTION: - - -
TRANSMIT RHS A SUPP POOL SPRAY POOL

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 3.9% CALIB SPAN

ZONE NO.: SC215122
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/93	120	1	2	TEST-IDENT	NA	NOTE 2
ABNORMAL	106	120	1	2,4	TEST-IDENT	NA	
ACCIDENT	200	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.0E6		1			NA	
ACC GAMMA	1.7E7	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 27-7-C1
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MBA____ REV 0

19-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2RHS*FT64B
SPEC NO.: C071M
SYSTEM: RESIDUAL HEAT REMOVAL SYSTEM

TYPE: (DESCRIPTION)
FLOW TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153DB5PA

SAFETY FUNCTION: - - -
TRANSMIT RHS B SUPP POOL
SPRAY POOL

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 3.9% CALIB SPAN

ZONE NO.: SC215122
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/93	120	1	2	TEST-IDENT	NA	NOTE 2
ABNORMAL	106	120	1	2,4	TEST-IDENT	NA	
ACCIDENT	200	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.0E6		1			NA	
ACC GAMMA	1.7E7	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 27-7-C1
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MBB____ REV 0

21-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2RHS*PT99A
SPEC NO.: C071M
SYSTEM: RESIDUAL HEAT REMOVAL SYSTEM

TYPE: (DESCRIPTION)
PRESSURE TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153GB9PA

SAFETY FUNCTION: - - -
TRANSMIT RHS A STEAM SUPPLY ROOM ICS

OP. CODE: B

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 4.6% CALIB SPAN

ZONE NO.: SC175105
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-IDENT	NA	- NOTE 2
ABNORMAL	92	120	1	2,4	TEST-IDENT	NA	
ACCIDENT	175	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - - -	- - -	- NOTE 1
NORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - - -	- - -	- NOTE 1
NORM GAMMA	5.5E6		1			NA	
ACC GAMMA	8.5E6	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	- NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 27-7
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MBC____ REV 0

21-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2RHS*PT99B
SPEC NO.: C071M
SYSTEM: RESIDUAL HEAT REMOVAL SYSTEM

TYPE: (DESCRIPTION)
PRESSURE TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153GB9PA

SAFETY FUNCTION: - - -
TRANSMIT RHS B STEAM SUPPLY ROOM ICS

OP. CODE: B

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 4.7% CALIB SPAN

ZONE NO.: SC215122
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/93	120	1	2	TEST-IDENT	NA	- NOTE 2
ABNORMAL	106	120	1	2,4	TEST-IDENT	NA	
ACCIDENT	200	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.0E6		1			NA	
ACC GAMMA	1.65E7	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	- NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 27-7
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MBD____ REV 0

25-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2RSS*FT106
SPEC NO.: C071M
SYSTEM: REMOTE SHUTDOWN SYSTEM

TYPE: (DESCRIPTION)
FLOW TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153DB4PA

SAFETY FUNCTION: - - -
TRANSMIT RCIC PMP DISCH FLOW

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 6.7% CALIB SPAN

ZONE NO.: SC175105
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	12 HRS	>1 YEAR	3	2,5	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-IDENT	NA	- NOTE 2
ABNORMAL	92	120	1	2,4	TEST-IDENT	NA	
ACCIDENT	175	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - - -	- - -	- NOTE 1
NORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - - -	- - -	- NOTE 1
NORM GAMMA	2.75E6		1			NA	
ACC GAMMA	1.7E7	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	- NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. RSS-C2
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MBE____ REV 0

25-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2RSS*LT101
SPEC NO.: C071M
SYSTEM: REMOTE SHUTDOWN SYSTEM

TYPE: (DESCRIPTION)
LEVEL TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153DB5PA

SAFETY FUNCTION: - - -
TRANSMIT REACTOR VESSEL LEVEL

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 5.0% CALIB SPAN

ZONE NO.: SC261145
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-IDENT	NA	NOTE 2
ABNORMAL	87	120	1	2	TEST-IDENT	NA	
ACCIDENT	200	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"WG	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - - -	- - -	- NOTE 1
NORM GAMMA	3.95E6		1			NA	
ACC GAMMA	1.1E6	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. RSS-C1
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MBF____ REV 0

21-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2RSS*LT105
SPEC NO.: C071M
SYSTEM: REMOTE SHUTDOWN SYSTEM

TYPE: (DESCRIPTION)
LEVEL TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153DB5PA

SAFETY FUNCTION: - - -
TRANSMIT SUPPR POOL WTR TEMP

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 4.5% CALIB SPAN

ZONE NO.: SC175105
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,5	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-IDENT	NA	- NOTE 2
ABNORMAL	92	120	1	2,4	TEST-IDENT	NA	
ACCIDENT	175	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	2.75E6		1			NA	
ACC GAMMA	1.7E7	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	- NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. RSS-C5
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MBG____ REV 0

25-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2RSS*LT115
SPEC NO.: C071M
SYSTEM: REMOTE SHUTDOWN SYSTEM

TYPE: (DESCRIPTION)
LEVEL TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153DB4PA

SAFETY FUNCTION: - - -
TRANSMIT REACTOR VESSEL LEVEL

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 3.3% CALIB SPAN

ZONE NO.: SC261145
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-IDENT	NA	NOTE 2
ABNORMAL	87	120	1	2	TEST-IDENT	NA	
ACCIDENT	200	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"WG	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - - -	- - -	- NOTE 1
NORM GAMMA	4.0E6		1			NA	
ACC GAMMA	7.8E5	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. RSS-C3
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MBH____ REV 0

25-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2RSS*PT102
SPEC NO.: C071M
SYSTEM: REMOTE SHUTDOWN SYSTEM

TYPE: (DESCRIPTION)
PRESSURE TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153GB9PA

SAFETY FUNCTION: - - -
TRANSMIT REACTOR VESSEL LEVEL

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 4.8% CALIB SPAN

ZONE NO.: SC261145
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-IDENT	NA	NOTE 2
ABNORMAL	87	120	1	2,4	TEST-IDENT	NA	
ACCIDENT	200	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"WG	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	3.95E6		1			NA	
ACC GAMMA	1.1E6	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. RSS-C1
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MBI____ REV 0

25-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2GTS*FT10B
SPEC NO.: C071M
SYSTEM: GAS TREATMENT

TYPE: (DESCRIPTION)
FLOW TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153DB3

SAFETY FUNCTION: - - -
SENSE DISCHARGE FLOW
OF FN1B

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 20.7% CALIB SPAN

ZONE NO.: SG261355
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-IDENT	NA	
ABNORMAL	104	104	1	2	TEST-IDENT	NA	
ACCIDENT	NA	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	ATMOS	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	ATMOS	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	NA	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	NA	100	1	2	TEST-IDENT	YES	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.34EE3		1	2		NA	
ACC GAMMA	1.0EE6	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA			1	2		NA	
ACC BETA			1	2			
NEUTRON			1	2			
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 27-15-C3
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MBJ____ REV 0

25-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2GTS*FT10A
SPEC NO.: C071M
SYSTEM: GAS TREATMENT

TYPE: (DESCRIPTION)
FLOW TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153DB3

SAFETY FUNCTION: - - -
SENSE DISCHARGE FLOW
OF FN1A

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 20.7% CALIB SPAN

ZONE NO.: SG261356
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-IDENT	NA	
ABNORMAL	104	104	1	2	TEST-IDENT	NA	
ACCIDENT	NA	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	ATMOS	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	ATMOS	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	ATMOS	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	50	100	1	2	TEST-IDENT	YES	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.34E6		1	2		NA	
ACC GAMMA	1.0E6	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA			1	2		NA	
ACC BETA			1	2			
NEUTRON			1	2			
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 27-15-C3
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MBK____ REV 0

25-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2GTS*PDT5A
SPEC NO.: C071M
SYSTEM: GAS TREATMENT

TYPE: (DESCRIPTION)
FLOW TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153DB3

SAFETY FUNCTION: - - -
SENSE PRESSURE DIFF BET RB AND OUTDOOR CONDITION

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 20.7% CALIB SPAN

ZONE NO.: SG261355
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-IDENT	NA	
ABNORMAL	104	104	1	2	TEST-IDENT	NA	
ACCIDENT	NA	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	ATMOS	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	ATMOS	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	NA	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	NA	100	1	2	TEST-IDENT	YES	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.3E3		1	2		NA	
ACC GAMMA	1.4E6	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA			1	2		NA	
ACC BETA			1	2			
NEUTRON			1	2			
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 27-15-C1
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MBL____ REV 0

25-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2GTS*PDT5B
SPEC NO.: C071M
SYSTEM: GAS TREATMENT

TYPE: (DESCRIPTION)
PRESSURE DIFFERENTIAL TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153DB3

SAFETY FUNCTION: - - -
SENSE PRESSURE DIFF BET RB AND OUTDOOR CONDITION

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 20.7% CALIB SPAN

ZONE NO.: SG261355
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/85	120	1	2	TEST-IDENT	NA	
ABNORMAL	104	104	1	2	TEST-IDENT	NA	
ACCIDENT	NA	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	ATMOS	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	ATMOS	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	NA	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	NA	100	1	2	TEST-IDENT	YES	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	1.34E3		1	2		NA	
ACC GAMMA	1.4E6	2.2E7	5	2		YES	
NORM BETA			1	2		NA	
ACC BETA			1	2			
NEUTRON			1	2			
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 27-15-C1
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MBM____ REV 0

21-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SCF*FT36A
SPEC NO.: C071M
SYSTEM: SPENT FUEL POOL COOLING

TYPE: (DESCRIPTION)
FLOW TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153DB6

SAFETY FUNCTION: - - -
TRANSMIT SF POOL CLG SYS FLOW L

OP. CODE: B

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 8.3% CALIB SPAN

ZONE NO.: SC215122
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/93	120	1	2	TEST-IDENT	NA	- NOTE 2
ABNORMAL	106	120	1	2	TEST-IDENT	NA	
ACCIDENT	200	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.0E6		1			NA	
ACC GAMMA	1.65E7	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	- NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 34-2-C2
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MBN____ REV 0

21-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SCF*FT36B
SPEC NO.: C071M
SYSTEM: SPENT FUEL POOL COOLING

TYPE: (DESCRIPTION)
FLOW TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153DB6

SAFETY FUNCTION: - - -
TRANSMIT SF POOL CLG SYS FLOW L

OP. CODE: B

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 8.3% CALIB SPAN

ZONE NO.: SC215122
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/93	120	1	2	TEST-IDENT	NA	- NOTE 2
ABNORMAL	106	120	1	2,4	TEST-IDENT	NA	
ACCIDENT	200	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.0E6		1			NA	
ACC GAMMA	1.65E7	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	- NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 34-2-C2
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MBO____ REV 0

19-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2RHS*FT58A
SPEC NO.: C071M
SYSTEM: SPENT FUEL POOL COOLING

TYPE: (DESCRIPTION)
FLOW TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153DB5

SAFETY FUNCTION: - - -
TRANSMIT SCF PMP DISCH FLOW

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 4.9% CALIB SPAN

ZONE NO.: SC289162
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,4	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	120/108	120	1	2	TEST-IDENT	NA	NOTE 2
ABNORMAL	NA	120	1	NA	NA	NA	
ACCIDENT	175	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	NA	NA	1	NA	NA	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	NA	95	1	NA	NA	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	6.5E5		1			NA	
ACC GAMMA	2.6E6	2.2E7	1	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 34-2-C1
4. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MBP____ REV 0

21-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SCF*FT58B
SPEC NO.: C071M
SYSTEM: SPENT FUEL POOL COOLING

TYPE: (DESCRIPTION)
FLOW TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153DB5

SAFETY FUNCTION: - - -
TRANSMIT SCF PMP DISCH FLOW

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 4.9% CALIB SPAN

ZONE NO.: SC289161
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,4	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	120/108	120	1	2	TEST-IDENT	NA	- NOTE 2
ABNORMAL	NA	120	1	NA	NA	NA	
ACCIDENT	175	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	NA	NA	1	NA	NA	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	NA	NA	1	NA	NA	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	3.25E5		1			NA	
ACC GAMMA	2.6E6	2.2E7	1	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	- NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 34-2-C1
4. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MBQ____ REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SFC*LT32A
SPEC NO.: C071M
SYSTEM: SPENT FUEL POOL COOLING

TYPE: (DESCRIPTION)
LEVEL TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153DB5

SAFETY FUNCTION: - - -
TRANSMIT SF POOL SURGE TANK WATER LVL

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 3.0% CALIB SPAN

ZONE NO.: SC328197
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 10
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,4	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	120/LT	120	1	2	TEST-IDENT	NA	NOTE 2
ABNORMAL	LTR	120	1	2	TEST-IDENT	NA	
ACCIDENT	175	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	LTR	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	LTR	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	LTR	95	1	2	TEST-IDENT	NA	
ABNORMAL	LTR	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.8E3		1			NA	
ACC GAMMA	2.6E6	2.2E7	1	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 34-2-C5
4. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MBR____ REV 0

25-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SFC*LT32B
SPEC NO.: C071M
SYSTEM: SPENT FUEL POOL COOLING

TYPE: (DESCRIPTION)
LEVEL TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153DB5

SAFETY FUNCTION: - - -
TRANSMIT SF POOL SURGE TANK WATER LVL

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 3.0% CALIB SPAN

ZONE NO.: SC328187
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,5	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/89	120	1	2	TEST-IDENT	NA	NOTE 2
ABNORMAL	133	133	1	2,4	AN + DATA	NA	
ACCIDENT	175	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.8E3		1			NA	
ACC GAMMA	2.6E6	2.2E7	1	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 34-2-C5
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MBS____ REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SCF*PT3A
SPEC NO.: C071M
SYSTEM: SPENT FUEL POOL COOLING

TYPE: (DESCRIPTION)
PRESSURE TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153GB6

SAFETY FUNCTION: - - -
TRANSMIT SF POOL CIRC PP A SUCT PRESS

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 4.8% CALIB SPAN

ZONE NO.: SC261145
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-IDENT	NA	NOTE 2
ABNORMAL	87	120	1	2	TEST-IDENT	NA	
ACCIDENT	200	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"WG	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	3.96E6		1			NA	
ACC GAMMA	7.29E5	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 34-2-C1
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MBT____ REV 0

20-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SCF*PT3B
SPEC NO.: C071M
SYSTEM: SPENT FUEL POOL COOLING

TYPE: (DESCRIPTION)
PRESSURE TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153GB6

SAFETY FUNCTION: - - -
TRANSMIT SF POOL CIRC PP B SUCT PRESS

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 4.8% CALIB SPAN

ZONE NO.: SC261145
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-IDENT	NA	NOTE 2
ABNORMAL	87	120	1	2	TEST-IDENT	NA	
ACCIDENT	200	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"WG	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	3.96E6		1			NA	
ACC GAMMA	1.12E6	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 34-2-C1
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MBU____ REV 0

21-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SFC*PT30A
SPEC NO.: C071M
SYSTEM: SPENT FUEL POOL COOLING

TYPE: (DESCRIPTION)
PRESSURE TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153GB8

SAFETY FUNCTION: - - -
TRANSMIT SF POOL CIRC PMP DISCH PRESS

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 7.7% CALIB SPAN

ZONE NO.: SC261145
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP. TIME:	100 DAYS	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/85	120	1	2	TEST-IDENT	NA	NOTE 2
ABNORMAL	87	120	1	2,4	TEST-IDENT	NA	
ACCIDENT	200	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"W.G.	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	3.96E6		1			NA	
ACC GAMMA	7.29E5	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 34-2-C1
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MBV____ REV 0

25-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SFC*PT30B
SPEC NO.: C071M
SYSTEM: SPENT FUEL POOL COOLING

TYPE: (DESCRIPTION)
PRESSURE TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153GB8

SAFETY FUNCTION: - - -
TRANSMIT SF POOL CIRC PMP DISCH PRESS

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 7.7% CALIB SPAN

ZONE NO.: SC261145
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-IDENT	NA	NOTE 2
ABNORMAL	87	120	1	2	TEST-IDENT	NA.	
ACCIDENT	200	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-.25"WG	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	3.96E6		1			NA	
ACC GAMMA	1.12E6	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 34-2-C1
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MBW____ REV 0

21-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SWP*PT140A
SPEC NO.: C071M
SYSTEM: SERVICE WATER SYSTEM

TYPE: (DESCRIPTION)
PRESSURE TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153GB7

SAFETY FUNCTION: - - -
TRANSMIT SWP TO CCP HT EXCHS PRESS

OP. CODE: A

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 4.5% CALIB SPAN

ZONE NO.: ABN17503
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-IDENT	NA	NOTE 2
ABNORMAL	95	120	1	2,4	TEST-IDENT	NA	
ACCIDENT	175	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25" WG	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-0.25" WG	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	2.6E5		1			NA	
ACC GAMMA	8.85E6	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 9-10-C19
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071MBX____ REV 0

21-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SWP*PT140B
SPEC NO.: C071M
SYSTEM: SERVICE WATER SYSTEM

TYPE: (DESCRIPTION)
PRESSURE TRANSMITTER

MANUFACTURER: ROSEMOUNT

MODEL NO.: 1153GB7

SAFETY FUNCTION: - - -
TRANSMIT SWP TO CCP HT EXCHS PRESS

OP. CODE: B

ACCURACY - - NOTE 4
SPEC: 0.25% CALIB SPAN
DEMO: 4.5% CALIB SPAN

ZONE NO.: ABN17503
SUBMERGENCE: NA
SPRAY: NA

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 20
REFERENCE: 2,4

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	NA	>1 YEAR	3	2,6	TEST-IDENT	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/85	120	1	2	TEST-IDENT	NA	NOTE 2
ABNORMAL	95	120	1	2	TEST-IDENT	NA	
ACCIDENT	175	318	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25" WG	ATM	1	2	TEST-IDENT	NA	
ABNORMAL	-0.25" WG	ATM	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	73	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-IDENT	NA	
ABNORMAL	50	95	1	2	TEST-IDENT	NA	
ACCIDENT	100	100	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	2.6E5		1			NA	
ACC GAMMA	8.85E6	2.2E7	5	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	NOTE 3
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT,
   SDDF # IEEE 7.131-5000E
   SDDF # IEEE 7.131-5000D
   SDDF # IEEE 7.131-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 9-10-C19
4. EXTENDED QUALIFIED LIFE CALCULATION NO. 12177-EQS-028
5. CASE SPECIFIC RADIATION CALCULATION NO. 12177-PR(C)-22-P
6. EXTENDING POST ACCIDENT PERIOD CALCULATION NO. 12177-EQS-005

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. THE TRANSMITTER IS HERMETICALLY SEALED AND NOT AFFECTED BY BETA RADIATION.
4. SPEC ACCURACY OF 0.25% OF CALIBRATED SPAN IS FACTORY CALIBRATION. THE DEMO ACCURACY INCLUDES EFFECT OF ADDITIONAL ERRORS. SEE SWEC CALCULATION NO. 12177-EQS-14. DEMONSTRATED ACCURACY IS ACCEPTABLE IN ACCORDANCE WITH THE TRANSMITTERS SETPOINT CALCULATION.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071WAA____ REV 0

09-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SVV*NBE220
SPEC NO.: C071W
SYSTEM: MAIN STEAM
SAFETY RELIEF VALVES

TYPE: (DESCRIPTION)
ACCELEROMETER

MANUFACTURER: ENDEVCO

MODEL NO.: 2273AM-1

SAFETY FUNCTION: - - -
MONITORS RELIEF VALVE POSITION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: PC289682
SUBMERGENCE: NA
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	4	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	150	150	1	2	TEST-IDENT	NA	
ABNORMAL	190	190	1	2,4	TEST-IDENT	NA	
ACCIDENT	340	405	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	.5 TO 1.0	ATMOS	1	2	TEST-IDENT	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	45	63	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	90	100	1	2	TEST-IDENT	NA	
ABNORMAL	100	100	1	2	TEST-IDENT	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA							
ACC GAMMA	7.5E7	2.22E8	4	2	TEST-IDENT	YES	NOTE 4
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # TEST-07-511-5002E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 32-8-C3
4. SWEC CALC NO. 12177-EQS-30, REV 0

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. OPERABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN BY ANALYSIS.
3. COMBINED RADIATION FOR GAMMA, BETA, & NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT, INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION 7.5E7 RADS.
4. CABLE CONNECTOR SHOULD BE REPLACED EVERY 9 YEARS TO MAINTAIN QUALIFICATION. SEE REF. 4.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071WAB____ REV 0

09-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SVV*NBE221
SPEC NO.: C071W
SYSTEM: MAIN STEAM
SAFETY RELIEF VALVES

TYPE: (DESCRIPTION)
ACCELEROMETER

MANUFACTURER: ENDEVCO

MODEL NO.: 2273AM-1

SAFETY FUNCTION: - - -
MONITORS RELIEF VALVE POSITION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: PC289679
SUBMERGENCE: NA
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	4	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	150	150	1	2	TEST-IDENT	NA	
ABNORMAL	190	190	1	2,4	TEST-IDENT	NA	
ACCIDENT	340	405	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	.5 TO 1.0	ATMOS	1	2	TEST-IDENT	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	45	63	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	90	100	1	2	TEST-IDENT	NA	
ABNORMAL	100	100	1	2	TEST-IDENT	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA							
ACC GAMMA	1.5E8	2.22E8	4	2	TEST-IDENT	YES	NOTE 4
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # TEST-07-511-5002E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 32-8-C1
4. SWEC CALC NO. 12177-EQS-30, REV 0

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. OPERABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN BY ANALYSIS.
3. COMBINED RADIATION FOR GAMMA, BETA, & NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT, INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION 1.5E8 RADS.
4. CABLE CONNECTOR SHOULD BE REPLACED EVERY 9 YEARS TO MAINTAIN QUALIFICATION. SEE REF. 4.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071WAC____ REV 0

09-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SVV*NBE222
SPEC NO.: C071W
SYSTEM: MAIN STEAM
SAFETY RELIEF VALVES

TYPE: (DESCRIPTION)
ACCELEROMETER

MANUFACTURER: ENDEVCO

MODEL NO.: 2273AM-1

SAFETY FUNCTION: - - -
MONITORS RELIEF VALVE
POSITION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: PC289680
SUBMERGENCE: NA
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	4	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	150	150	1	2	TEST-IDENT	NA	
ABNORMAL	190	190	1	2,4	TEST-IDENT	NA	
ACCIDENT	340	405	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	.5 TO 1.0	ATMOS	1	2	TEST-IDENT	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	45	63	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	90	100	1	2	TEST-IDENT	NA	
ABNORMAL	100	100	1	2	TEST-IDENT	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA							
ACC GAMMA	7.8E7	2.22E8	4	2	TEST-IDENT	YES	NOTE 4
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # TEST-07-511-5002E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 32-8-C3
4. SWEC CALC NO. 12177-EQS-30, REV 0

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. OPERABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN BY ANALYSIS.
3. COMBINED RADIATION FOR GAMMA, BETA, & NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT, INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION 7.8E7 RADS.
4. CABLE CONNECTOR SHOULD BE REPLACED EVERY 9 YEARS TO MAINTAIN QUALIFICATION. SEE REF. 4.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071WAD____ REV 0

09-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SVV*NBE223
SPEC NO.: C071W
SYSTEM: MAIN STEAM
SAFETY RELIEF VALVES

TYPE: (DESCRIPTION)
ACCELEROMETER

MANUFACTURER: ENDEVCO

MODEL NO.: 2273AM-1

SAFETY FUNCTION: - - -
MONITORS RELIEF VALVE
POSITION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: PC289680
SUBMERGENCE: NA
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	4	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	150	150	1	2	TEST-IDENT	NA	
ABNORMAL	190	190	1	2,4	TEST-IDENT	NA	
ACCIDENT	340	405	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	.5 TO 1.0	ATMOS	1	2	TEST-IDENT	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	45	63	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	90	100	1	2	TEST-IDENT	NA	
ABNORMAL	100	100	1	2	TEST-IDENT	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA							
ACC GAMMA	7.8E7	2.22E8	4	2	TEST-IDENT	YES	NOTE 4
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # TEST-07-511-5002E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 32-8-C3
4. SWEC CALC NO. 12177-EQS-30, REV 0

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. OPERABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN BY ANALYSIS.
3. COMBINED RADIATION FOR GAMMA, BETA, & NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT, INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION 7.8E7 RADS.
4. CABLE CONNECTOR SHOULD BE REPLACED EVERY 9 YEARS TO MAINTAIN QUALIFICATION. SEE REF. 4.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071WAE____ REV 0

09-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SVV*NBE224
SPEC NO.: C071W
SYSTEM: MAIN STEAM
SAFETY RELIEF VALVES

TYPE: (DESCRIPTION)
ACCELEROMETER

MANUFACTURER: ENDEVCO

MODEL NO.: 2273AM-1

SAFETY FUNCTION: - - -
MONITORS RELIEF VALVE
POSITION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: PC289680
SUBMERGENCE: NA
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	4	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	150	150	1	2	TEST-IDENT	NA	
ABNORMAL	190	190	1	2,4	TEST-IDENT	NA	
ACCIDENT	340	405	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	.5 TO 1.0	ATMOS	1	2	TEST-IDENT	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	45	63	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	90	100	1	2	TEST-IDENT	NA	
ABNORMAL	100	100	1	2	TEST-IDENT	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA							
ACC GAMMA	7.8E7	2.22E8	4	2	TEST-IDENT	YES	NOTE 4
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # TEST-07-511-5002E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 32-8-C3
4. SWEC CALC NO. 12177-EQS-30, REV 0

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. OPERABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN BY ANALYSIS.
3. COMBINED RADIATION FOR GAMMA, BETA, & NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT, INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION 7.8E7 RADS.
4. CABLE CONNECTOR SHOULD BE REPLACED EVERY 9 YEARS TO MAINTAIN QUALIFICATION. SEE REF. 4.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071WAF____ REV 0

09-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SVV*NBE225
SPEC NO.: C071W
SYSTEM: MAIN STEAM
SAFETY RELIEF VALVES

TYPE: (DESCRIPTION)
ACCELEROMETER

MANUFACTURER: ENDEVCO

MODEL NO.: 2273AM-1

SAFETY FUNCTION: - - -
MONITORS RELIEF VALVE POSITION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: PC289680
SUBMERGENCE: NA
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	4	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	150	150	1	2	TEST-IDENT	NA	
ABNORMAL	190	190	1	2,4	TEST-IDENT	NA	
ACCIDENT	340	405	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	.5 TO 1.0	ATMOS	1	2	TEST-IDENT	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	45	63	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	90	100	1	2	TEST-IDENT	NA	
ABNORMAL	100	100	1	2	TEST-IDENT	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA							
ACC GAMMA	7.8E7	2.22E8	4	2	TEST-IDENT	YES	NOTE 4
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # TEST-07-511-5002E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 32-8-C3
4. SWEC CALC NO. 12177-EQS-30, REV 0

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. OPERABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN BY ANALYSIS.
3. COMBINED RADIATION FOR GAMMA, BETA, & NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT, INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION 7.8E7 RADS.
4. CABLE CONNECTOR SHOULD BE REPLACED EVERY 9 YEARS TO MAINTAIN QUALIFICATION. SEE REF. 4.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071WAG____ REV 0

09-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SVV*NBE226
SPEC NO.: C071W
SYSTEM: MAIN STEAM
SAFETY RELIEF VALVES

TYPE: (DESCRIPTION)
ACCELEROMETER

MANUFACTURER: ENDEVCO

MODEL NO.: 2273AM-1

SAFETY FUNCTION: - - -
MONITORS RELIEF VALVE
POSITION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: PC289680
SUBMERGENCE: NA
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	4	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	150	150	1	2	TEST-IDENT	NA	
ABNORMAL	190	190	1	2,4	TEST-IDENT	NA	
ACCIDENT	340	405	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	.5 TO 1.0	ATMOS	1	2	TEST-IDENT	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	45	63	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	90	100	1	2	TEST-IDENT	NA	
ABNORMAL	100	100	1	2	TEST-IDENT	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA							
ACC GAMMA	7.8E7	2.22E8	4	2	TEST-IDENT	YES	NOTE 4
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # TEST-07-511-5002E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 32-8-C1
4. SWEC CALC NO. 12177-EQS-30, REV 0

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. OPERABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN BY ANALYSIS.
3. COMBINED RADIATION FOR GAMMA, BETA, & NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT, INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION 7.8E7 RADS.
4. CABLE CONNECTOR SHOULD BE REPLACED EVERY 9 YEARS TO MAINTAIN QUALIFICATION. SEE REF. 4.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071WAH____ REV 0

09-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SVV*NBE227
SPEC NO.: C071W
SYSTEM: MAIN STEAM
SAFETY RELIEF VALVES

TYPE: (DESCRIPTION)
ACCELEROMETER

MANUFACTURER: ENDEVCO

MODEL NO.: 2273AM-1

SAFETY FUNCTION: - - -
MONITORS RELIEF VALVE
POSITION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: PC289680
SUBMERGENCE: NA
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	4	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	150	150	1	2	TEST-IDENT	NA	
ABNORMAL	190	190	1	2,4	TEST-IDENT	NA	
ACCIDENT	340	405	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	.5 TO 1.0	ATMOS	1	2	TEST-IDENT	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	45	63	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	90	100	1	2	TEST-IDENT	NA	
ABNORMAL	100	100	1	2	TEST-IDENT	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA							
ACC GAMMA	7.8E7	2.22E8	4	2	TEST-IDENT	YES	NOTE 4
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # TEST-07-511-5002E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 32-8-C1
4. SWEC CALC NO. 12177-EQS-30, REV 0

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. OPERABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN BY ANALYSIS.
3. COMBINED RADIATION FOR GAMMA, BETA, & NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT, INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION 7.8E7 RADS.
4. CABLE CONNECTOR SHOULD BE REPLACED EVERY 9 YEARS TO MAINTAIN QUALIFICATION. SEE REF. 4.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071WAI____ REV 0

09-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SVV*NBE228
SPEC NO.: C071W
SYSTEM: MAIN STEAM
SAFETY RELIEF VALVES

TYPE: (DESCRIPTION)
ACCELEROMETER

MANUFACTURER: ENDEVCO

MODEL NO.: 2273AM-1

SAFETY FUNCTION: - - -
MONITORS RELIEF VALVE
POSITION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: PC289680
SUBMERGENCE: NA
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	4	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	150	150	1	2	TEST-IDENT	NA	
ABNORMAL	190	190	1	2,4	TEST-IDENT	NA	
ACCIDENT	340	405	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	.5 TO 1.0	ATMOS	1	2	TEST-IDENT	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	45	63	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	90	100	1	2	TEST-IDENT	NA	
ABNORMAL	100	100	1	2	TEST-IDENT	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA							
ACC GAMMA	7.8E7	2.22E8	4	2	TEST-IDENT	YES	NOTE 4
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # TEST-07-511-5002E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 32-8-C3
4. SWEC CALC NO. 12177-EQS-30, REV 0

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. OPERABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN BY ANALYSIS.
3. COMBINED RADIATION FOR GAMMA, BETA, & NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT, INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION 7.8E7 RADS.
4. CABLE CONNECTOR SHOULD BE REPLACED EVERY 9 YEARS TO MAINTAIN QUALIFICATION. SEE REF. 4.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071WAJ____ REV 0

09-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SVV*NBE229
SPEC NO.: C071W
SYSTEM: MAIN STEAM
SAFETY RELIEF VALVES

TYPE: (DESCRIPTION)
ACCELEROMETER

MANUFACTURER: ENDEVCO

MODEL NO.: 2273AM-1

SAFETY FUNCTION: - - -
MONITORS RELIEF VALVE
POSITION

OP. CODE: A

ACCURACY - - -
SPEC: NA
DEMO: NA

ZONE NO.: PC289680
SUBMERGENCE: NA
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	4	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	150	150	1	2	TEST-IDENT	NA	
ABNORMAL	190	190	1	2,4	TEST-IDENT	NA	
ACCIDENT	340	405	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	.5 TO 1.0	ATMOS	1	2	TEST-IDENT	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	45	63	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	90	100	1	2	TEST-IDENT	NA	
ABNORMAL	100	100	1	2	TEST-IDENT	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA							
ACC GAMMA	7.8E7	2.22E8	4	2	TEST-IDENT	YES	NOTE 4
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # TEST-07-511-5002E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 32-8-C1
4. SWEC CALC NO. 12177-EQS-30, REV 0

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. OPERABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN BY ANALYSIS.
3. COMBINED RADIATION FOR GAMMA, BETA, & NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT, INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION 7.8E7 RADS.
4. CABLE CONNECTOR SHOULD BE REPLACED EVERY 9 YEARS TO MAINTAIN QUALIFICATION. SEE REF. 4.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071WAK____ REV 0

09-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SVV*NBE230
SPEC NO.: C071W
SYSTEM: MAIN STEAM
SAFETY RELIEF VALVES

TYPE: (DESCRIPTION)
ACCELEROMETER

MANUFACTURER: ENDEVCO

MODEL NO.: 2273AM-1

SAFETY FUNCTION: - - -
MONITORS RELIEF VALVE POSITION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: PC289680
SUBMERGENCE: NA
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	4	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	150	150	1	2	TEST-IDENT	NA	
ABNORMAL	190	190	1	2,4	TEST-IDENT	NA	
ACCIDENT	340	405	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	.5 TO 1.0	ATMOS	1	2	TEST-IDENT	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	45	63	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	90	100	1	2	TEST-IDENT	NA	
ABNORMAL	100	100	1	2	TEST-IDENT	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA							
ACC GAMMA	7.8E7	2.22E8	4	2	TEST-IDENT	YES	NOTE 4
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # TEST-07-511-5002E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 32-8-C1
4. SWEC CALC NO. 12177-EQS-30, REV 0

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. OPERABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN BY ANALYSIS.
3. COMBINED RADIATION FOR GAMMA, BETA, & NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT, INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION 7.8E7 RADS.
4. CABLE CONNECTOR SHOULD BE REPLACED EVERY 9 YEARS TO MAINTAIN QUALIFICATION. SEE REF. 4.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071WAL____ REV 0

09-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SVV*NBE231
SPEC NO.: C071W
SYSTEM: MAIN STEAM
SAFETY RELIEF VALVES

TYPE: (DESCRIPTION)
ACCELEROMETER

MANUFACTURER: ENDEVCO

MODEL NO.: 2273AM-1

SAFETY FUNCTION: - - -
MONITORS RELIEF VALVE
POSITION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: PC289680
SUBMERGENCE: NA
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	4	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	150	150	1	2	TEST-IDENT	NA	
ABNORMAL	190	190	1	2,4	TEST-IDENT	NA	
ACCIDENT	340	405	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	.5 TO 1.0	ATMOS	1	2	TEST-IDENT	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	45	63	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	90	100	1	2	TEST-IDENT	NA	
ABNORMAL	100	100	1	2	TEST-IDENT	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA							
ACC GAMMA	7.8E7	2.22E8	4	2	TEST-IDENT	YES	NOTE 4
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # TEST-07-511-5002E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 32-8-C3
4. SWEC CALC NO. 12177-EQS-30, REV 0

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. OPERABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN BY ANALYSIS.
3. COMBINED RADIATION FOR GAMMA, BETA, & NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT, INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION 7.8E7 RADS.
4. CABLE CONNECTOR SHOULD BE REPLACED EVERY 9 YEARS TO MAINTAIN QUALIFICATION. SEE REF. 4.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071WAM____ REV 0

09-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SVV*NBE232
SPEC NO.: C071W
SYSTEM: MAIN STEAM
SAFETY RELIEF VALVES

TYPE: (DESCRIPTION)
ACCELEROMETER

MANUFACTURER: ENDEVCO

MODEL NO.: 2273AM-1

SAFETY FUNCTION: - - -
MONITORS RELIEF VALVE POSITION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: PC289680
SUBMERGENCE: NA
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	4	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	150	150	1	2	TEST-IDENT	NA	
ABNORMAL	190	190	1	2,4	TEST-IDENT	NA	
ACCIDENT	340	405	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	.5 TO 1.0	ATMOS	1	2	TEST-IDENT	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	45	63	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	90	100	1	2	TEST-IDENT	NA	
ABNORMAL	100	100	1	2	TEST-IDENT	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA							
ACC GAMMA	7.8E7	2.22E8	4	2	TEST-IDENT	YES	NOTE 4
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # TEST-07-511-5002E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 32-8-C3
4. SWEC CALC NO. 12177-EQS-30, REV 0

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. OPERABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN BY ANALYSIS.
3. COMBINED RADIATION FOR GAMMA, BETA, & NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT, INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION 7.8E7 RADS.
4. CABLE CONNECTOR SHOULD BE REPLACED EVERY 9 YEARS TO MAINTAIN QUALIFICATION. SEE REF. 4.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071WAN____ REV 0

09-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SVV*NBE233
SPEC NO.: C071W
SYSTEM: MAIN STEAM
SAFETY RELIEF VALVES

TYPE: (DESCRIPTION)
ACCELEROMETER

MANUFACTURER: ENDEVCO

MODEL NO.: 2273AM-1

SAFETY FUNCTION: - - -
MONITORS RELIEF VALVE
POSITION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: PC289680
SUBMERGENCE: NA
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	4	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	150	150	1	2	TEST-IDENT	NA	
ABNORMAL	190	190	1	2,4	TEST-IDENT	NA	
ACCIDENT	340	405	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	.5 TO 1.0	ATMOS	1	2	TEST-IDENT	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	45	63	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	90	100	1	2	TEST-IDENT	NA	
ABNORMAL	100	100	1	2	TEST-IDENT	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA							
ACC GAMMA	7.8E7	2.22E8	4	2	TEST-IDENT	YES	NOTE 4
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # TEST-07-511-5002E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 32-8-C3
4. SWEC CALC NO. 12177-EQS-30, REV 0

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. OPERABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN BY ANALYSIS.
3. COMBINED RADIATION FOR GAMMA, BETA, & NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT, INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION 7.8E7 RADS.
4. CABLE CONNECTOR SHOULD BE REPLACED EVERY 9 YEARS TO MAINTAIN QUALIFICATION. SEE REF. 4.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071WAO____ REV 0

09-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SVV*NBE234
SPEC NO.: C071W
SYSTEM: MAIN STEAM
SAFETY RELIEF VALVES

TYPE: (DESCRIPTION)
ACCELEROMETER

MANUFACTURER: ENDEVCO

MODEL NO.: 2273AM-1

SAFETY FUNCTION: - - -
MONITORS RELIEF VALVE
POSITION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: PC289686
SUBMERGENCE: NA
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	4	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	150	150	1	2	TEST-IDENT	NA	
ABNORMAL	190	190	1	2,4	TEST-IDENT	NA	
ACCIDENT	340	405	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	1	ATMOS	1	2	TEST-IDENT	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	45	63	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	90	100	1	2	TEST-IDENT	NA	
ABNORMAL	100	100	1	2	TEST-IDENT	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA							
ACC GAMMA	7.8E7	2.22E8	4	2	TEST-IDENT	YES	NOTE 4
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # TEST-07-511-5002E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 32-8-C1
4. SWEC CALC NO. 12177-EQS-30, REV 0

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. OPERABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN BY ANALYSIS.
3. COMBINED RADIATION FOR GAMMA, BETA, & NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT, INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION 7.8E7 RADS.
4. CABLE CONNECTOR SHOULD BE REPLACED EVERY 9 YEARS TO MAINTAIN QUALIFICATION. SEE REF. 4.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071WAP____ REV 0

09-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SVV*NBE235
SPEC NO.: C071W
SYSTEM: MAIN STEAM
SAFETY RELIEF VALVES

TYPE: (DESCRIPTION)
ACCELEROMETER

MANUFACTURER: ENDEVCO

MODEL NO.: 2273AM-1

SAFETY FUNCTION: - - -
MONITORS RELIEF VALVE POSITION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: PC289679
SUBMERGENCE: NA
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	4	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	150	150	1	2	TEST-IDENT	NA	
ABNORMAL	190	190	1	2,4	TEST-IDENT	NA	
ACCIDENT	340	405	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	1	ATMOS	1	2	TEST-IDENT	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	45	63	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	90	100	1	2	TEST-IDENT	NA	
ABNORMAL	100	100	1	2	TEST-IDENT	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA							
ACC GAMMA	1.5E8	2.22E8	4	2	TEST-IDENT	YES	NOTE 4
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # TEST-07-511-5002E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 32-8-C3
4. SWEC CALC NO. 12177-EQS-30, REV 0

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. OPERABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN BY ANALYSIS.
3. COMBINED RADIATION FOR GAMMA, BETA, & NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT, INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION 1.5E8 RADS.
4. CABLE CONNECTOR SHOULD BE REPLACED EVERY 9 YEARS TO MAINTAIN QUALIFICATION. SEE REF. 4.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071WAQ____ REV 0

09-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SVV*NBE236
SPEC NO.: C071W
SYSTEM: MAIN STEAM
SAFETY RELIEF VALVES

TYPE: (DESCRIPTION)
ACCELEROMETER

MANUFACTURER: ENDEVCO

MODEL NO.: 2273AM-1

SAFETY FUNCTION: - - -
MONITORS RELIEF VALVE
POSITION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: PC289680
SUBMERGENCE: NA
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	4	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	150	150	1	2	TEST-IDENT	NA	
ABNORMAL	190	190	1	2,4	TEST-IDENT	NA	
ACCIDENT	340	405	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	1	ATMOS	1	2	TEST-IDENT	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	45	63	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	90	100	1	2	TEST-IDENT	NA	
ABNORMAL	100	100	1	2	TEST-IDENT	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA							
ACC GAMMA	7.8E7	2.22E8	4	2	TEST-IDENT	YES	NOTE 4
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # TEST-07-511-5002E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 32-8-C3
4. SWEC CALC NO. 12177-EQS-30, REV 0

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. OPERABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN BY ANALYSIS.
3. COMBINED RADIATION FOR GAMMA, BETA, & NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT, INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION 7.8E7 RADS.
4. CABLE CONNECTOR SHOULD BE REPLACED EVERY 9 YEARS TO MAINTAIN QUALIFICATION. SEE REF. 4.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071WAR____ REV 0

09-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SVV*NBE237
SPEC NO.: C071W
SYSTEM: MAIN STEAM
SAFETY RELIEF VALVES

TYPE: (DESCRIPTION)
ACCELEROMETER

MANUFACTURER: ENDEVCO

MODEL NO.: 2273AM-1

SAFETY FUNCTION: - - -
MONITORS RELIEF VALVE
POSITION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: PC289680
SUBMERGENCE: NA
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2 (NOTE 4)

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	4	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	150	150	1	2	TEST-IDENT	NA	
ABNORMAL	190	190	1	2,4	TEST-IDENT	NA	
ACCIDENT	340	405	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	1	ATMOS	1	2	TEST-IDENT	NA	
ABNORMAL	2	2	1	2,4	AN+DATA	NA	
ACCIDENT	45	63 .	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	90	100	1	2	TEST-IDENT	NA	
ABNORMAL	100	100	1	2	TEST-IDENT	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA							
ACC GAMMA	7.8E7	2.22E8	4	2	TEST-IDENT	YES	NOTE 4
NORM BETA							
ACC BETA							
NEUTRON							
SPRAY	YES	YES	1	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # TEST-07-511-5002E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 32-8-C1
4. SWEC CALC NO. 12177-EQS-30, REV 0

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. OPERABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN BY ANALYSIS.
3. COMBINED RADIATION FOR GAMMA, BETA, & NEUTRON FOR 40 YEARS OF QUALIFIED LIFE PLUS ACCIDENT, INCLUDING APPLICABLE BETA REDUCTION AND NEUTRON CONVERSION 7.8E7 RADS.
4. CABLE CONNECTOR SHOULD BE REPLACED EVERY 9 YEARS TO MAINTAIN QUALIFICATION. SEE REF. 4.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071WBA____ REV 0

09-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SVV*NBY220
SPEC NO.: C071W
SYSTEM: MAIN STEAM
SAFETY RELIEF VALVES

TYPE: (DESCRIPTION)
CHARGE CONVERTER (PRE AMP)

MANUFACTURER: TEC

MODEL NO.: 504A

SAFETY FUNCTION: - - -
MONITORS RELIEF VALVE
POSITION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC240135
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	4	AN+DATA	YES	NOTE 2
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/88	122	1	2	TEST-IDENT	NA	NOTE 3
ABNORMAL	94	122	1	2	TEST-IDENT	NA	
ACCIDENT	175	405	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-IDENT	NA	
ABNORMAL	+.25"WG	ATMOS	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	63	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-IDENT	NA	
ABNORMAL	50	100	1	2	TEST-IDENT	NA	
ACCIDENT	100	STEAM	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	5.1E5		1			NA	
ACC GAMMA	5.3E7	2.2E8	1	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # TEST-07-511-5002E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 32-8-C3
4. SWEC CALC NO. 12177-EQS-30, REV 0

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. OPREABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN BY ANALYSIS.
3. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071WBB____ REV 0

09-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SVV*NBY221
SPEC NO.: C071W
SYSTEM: MAIN STEAM
SAFETY RELIEF VALVES

TYPE: (DESCRIPTION)
CHARGE CONVERTER (PRE AMP)

MANUFACTURER: TEC

MODEL NO.: 504A

SAFETY FUNCTION: - - -
MONITORS RELIEF VALVE
POSITION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC240135
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	4	AN+DATA	YES	NOTE 2
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/88	122	1	2	TEST-IDENT	NA	NOTE 3
ABNORMAL	94	122	1	2	TEST-IDENT	NA	
ACCIDENT	175	405	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-IDENT	NA	
ABNORMAL	+.25"WG	ATMOS	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	63	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-IDENT	NA	
ABNORMAL	50	100	1	2	TEST-IDENT	NA	
ACCIDENT	100	STEAM	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	5.1E5		1			NA	
ACC GAMMA	5.3E7	2.2E8	1	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # TEST-07-511-5002E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 32-8-C1
4. SWEC CALC NO. 12177-EQS-30, REV 0

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. OPREABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN BY ANALYSIS.
3. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071WBC____ REV 0

09-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SVV*NBY222
SPEC NO.: C071W
SYSTEM: MAIN STEAM
SAFETY RELIEF VALVES

TYPE: (DESCRIPTION)
CHARGE CONVERTER (PRE AMP)

MANUFACTURER: TEC

MODEL NO.: 504A

SAFETY FUNCTION: - - -
MONITORS RELIEF VALVE
POSITION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC240135
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	4	AN+DATA	YES	NOTE 2
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/88	122	1	2	TEST-IDENT	NA	NOTE 3
ABNORMAL	94	122	1	2	TEST-IDENT	NA	
ACCIDENT	175	405	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-IDENT	NA	
ABNORMAL	+.25"WG	ATMOS	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	63	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-IDENT	NA	
ABNORMAL	50	100	1	2	TEST-IDENT	NA	
ACCIDENT	100	STEAM	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	5.1E5		1			NA	
ACC GAMMA	5.3E7	2.2E8	1	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # TEST-07-511-5002E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 32-8-C3
4. SWEC CALC NO. 12177-EQS-30, REV 0

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. OPREABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN BY ANALYSIS.
3. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071WBD____ REV 0

09-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SVV*NBY223
SPEC NO.: C071W
SYSTEM: MAIN STEAM
SAFETY RELIEF VALVES

TYPE: (DESCRIPTION)
CHARGE CONVERTER (PRE AMP)

MANUFACTURER: TEC

MODEL NO.: 504A

SAFETY FUNCTION: - - -
MONITORS RELIEF VALVE
POSITION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC240135
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	4	AN+DATA	YES	NOTE 2
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/88	122	1	2	TEST-IDENT	NA	NOTE 3
ABNORMAL	94	122	1	2	TEST-IDENT	NA	
ACCIDENT	175	405	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-IDENT	NA	
ABNORMAL	+.25"WG	ATMOS	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	63	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-IDENT	NA	
ABNORMAL	50	100	1	2	TEST-IDENT	NA	
ACCIDENT	100	STEAM	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	5.1E5		1			NA	
ACC GAMMA	5.3E7	2.2E8	1	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # TEST-07-511-5002E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 32-8-C3
4. SWEC CALC NO. 12177-EQS-30, REV 0

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. OPREABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN BY ANALYSIS.
3. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071WBE____ REV 0

09-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SVV*NBY224
SPEC NO.: C071W
SYSTEM: MAIN STEAM
SAFETY RELIEF VALVES

TYPE: (DESCRIPTION)
CHARGE CONVERTER (PRE AMP)

MANUFACTURER: TEC

MODEL NO.: 504A

SAFETY FUNCTION: - - -
MONITORS RELIEF VALVE
POSITION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC240135
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	4	AN+DATA	YES	NOTE 2
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/88	122	1	2	TEST-IDENT	NA	NOTE 3
ABNORMAL	94	122	1	2	TEST-IDENT	NA	
ACCIDENT	175	405	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-IDENT	NA	
ABNORMAL	+.25"WG	ATMOS	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	63	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-IDENT	NA	
ABNORMAL	50	100	1	2	TEST-IDENT	NA	
ACCIDENT	100	STEAM	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	5.1E5		1			NA	
ACC GAMMA	5.3E7	2.2E8	1	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # TEST-07-511-5002E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 32-8-C3
4. SWEC CALC NO. 12177-EQS-30, REV 0

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. OPREABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN BY ANALYSIS.
3. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071WBF____ REV 0

09-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SVV*NBY225
SPEC NO.: C071W
SYSTEM: MAIN STEAM
SAFETY RELIEF VALVES

TYPE: (DESCRIPTION)
CHARGE CONVERTER (PRE AMP)

MANUFACTURER: TEC

MODEL NO.: 504A

SAFETY FUNCTION: - - -
MONITORS RELIEF VALVE
POSITION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC240135
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	4	AN+DATA	YES	NOTE 2
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/88	122	1	2	TEST-IDENT	NA	NOTE 3
ABNORMAL	94	122	1	2	TEST-IDENT	NA	
ACCIDENT	175	405	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-IDENT	NA	
ABNORMAL	+.25"WG	ATMOS	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	63	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-IDENT	NA	
ABNORMAL	50	100	1	2	TEST-IDENT	NA	
ACCIDENT	100	STEAM	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	5.1E5		1			NA	
ACC GAMMA	5.3E7	2.2E8	1	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # TEST-07-511-5002E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 32-8-C3
4. SWEC CALC NO. 12177-EQS-30, REV 0

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. OPREABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN BY ANALYSIS.
3. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071WBG____ REV 0

09-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SVV*NBY226
SPEC NO.: C071W
SYSTEM: MAIN STEAM
SAFETY RELIEF VALVES

TYPE: (DESCRIPTION)
CHARGE CONVERTER (PRE AMP)

MANUFACTURER: TEC

MODEL NO.: 504A

SAFETY FUNCTION: - - -
MONITORS RELIEF VALVE
POSITION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC240135
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	4	AN+DATA	YES	NOTE 2
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/88	122	1	2	TEST-IDENT	NA	NOTE 3
ABNORMAL	94	122	1	2	TEST-IDENT	NA	
ACCIDENT	175	405	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-IDENT	NA	
ABNORMAL	+.25"WG	ATMOS	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	63	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-IDENT	NA	
ABNORMAL	50	100	1	2	TEST-IDENT	NA	
ACCIDENT	100	STEAM	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	5.1E5		1			NA	
ACC GAMMA	5.3E7	2.2E8	1	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # TEST-07-511-5002E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 32-8-C1
4. SWEC CALC NO. 12177-EQS-30, REV 0

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. OPREABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN BY ANALYSIS.
3. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071WBH____ REV 0

09-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SVV*NBY227
SPEC NO.: C071W
SYSTEM: MAIN STEAM
SAFETY RELIEF VALVES

TYPE: (DESCRIPTION)
CHARGE CONVERTER (PRE AMP)

MANUFACTURER: TEC

MODEL NO.: 504A

SAFETY FUNCTION: - - -
MONITORS RELIEF VALVE
POSITION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC240135
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	4	AN+DATA	YES	NOTE 2
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/88	122	1	2	TEST-IDENT	NA	NOTE 3
ABNORMAL	94	122	1	2	TEST-IDENT	NA	
ACCIDENT	175	405	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-IDENT	NA	
ABNORMAL	+.25"WG	ATMOS	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	63	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-IDENT	NA	
ABNORMAL	50	100	1	2	TEST-IDENT	NA	
ACCIDENT	100	STEAM	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	5.1E5		1			NA	
ACC GAMMA	5.3E7	2.2E8	1	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # TEST-07-511-5002E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 32-8-C1
4. SWEC CALC NO. 12177-EQS-30, REV 0

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. OPREABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN BY ANALYSIS.
3. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071WBI____ REV 0

09-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SVV*NBY228
SPEC NO.: C071W
SYSTEM: MAIN STEAM
SAFETY RELIEF VALVES

TYPE: (DESCRIPTION)
CHARGE CONVERTER (PRE AMP)

MANUFACTURER: TEC

MODEL NO.: 504A

SAFETY FUNCTION: - - -
MONITORS RELIEF VALVE
POSITION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC240135
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	4	AN+DATA	YES	NOTE 2
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/88	122	1	2	TEST-IDENT	NA	NOTE 3
ABNORMAL	94	122	1	2	TEST-IDENT	NA	
ACCIDENT	175	405	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-IDENT	NA	
ABNORMAL	+.25"WG	ATMOS	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	63	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-IDENT	NA	
ABNORMAL	50	100	1	2	TEST-IDENT	NA	
ACCIDENT	100	STEAM	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	5.1E5		1			NA	
ACC GAMMA	5.3E7	2.2E8	1	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # TEST-07-511-5002E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 32-8-C3
4. SWEC CALC NO. 12177-EQS-30, REV 0

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. OPREABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN BY ANALYSIS.
3. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071WBJ____ REV 0

09-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SVV*NBY229
SPEC NO.: C071W
SYSTEM: MAIN STEAM
SAFETY RELIEF VALVES

TYPE: (DESCRIPTION)
CHARGE CONVERTER (PRE AMP)

MANUFACTURER: TEC

MODEL NO.: 504A

SAFETY FUNCTION: - - -
MONITORS RELIEF VALVE
POSITION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC240135
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	4	AN+DATA	YES	NOTE 2
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/88	122	1	2	TEST-IDENT	NA	NOTE 3
ABNORMAL	94	122	1	2	TEST-IDENT	NA	
ACCIDENT	175	405	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-IDENT	NA	
ABNORMAL	+.25"WG	ATMOS	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	63	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-IDENT	NA	
ABNORMAL	50	100	1	2	TEST-IDENT	NA	
ACCIDENT	100	STEAM	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	5.1E5		1			NA	
ACC GAMMA	5.3E7	2.2E8	1	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # TEST-07-511-5002E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 32-8-C1
4. SWEC CALC NO. 12177-EQS-30, REV 0

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. OPREABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN BY ANALYSIS.
3. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071WBK____ REV 0

09-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SVV*NBY230
SPEC NO.: C071W
SYSTEM: MAIN STEAM
SAFETY RELIEF VALVES

TYPE: (DESCRIPTION)
CHARGE CONVERTER (PRE AMP)

MANUFACTURER: TEC

MODEL NO.: 504A

SAFETY FUNCTION: - - -
MONITORS RELIEF VALVE
POSITION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC240135
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	4	AN+DATA	YES	NOTE 2
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/88	122	1	2	TEST-IDENT	NA	NOTE 3
ABNORMAL	94	122	1	2	TEST-IDENT	NA	
ACCIDENT	175	405	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-IDENT	NA	
ABNORMAL	+.25"WG	ATMOS	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	63	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-IDENT	NA	
ABNORMAL	50	100	1	2	TEST-IDENT	NA	
ACCIDENT	100	STEAM	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	5.1E5		1			NA	
ACC GAMMA	5.3E7	2.2E8	1	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # TEST-07-511-5002E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 32-8-C1
4. SWEC CALC NO. 12177-EQS-30, REV 0

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. OPREABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN BY ANALYSIS.
3. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071WBL____ REV 0

09-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SVV*NBY231
SPEC NO.: C071W
SYSTEM: MAIN STEAM
SAFETY RELIEF VALVES

TYPE: (DESCRIPTION)
CHARGE CONVERTER (PRE AMP)

MANUFACTURER: TEC

MODEL NO.: 504A

SAFETY FUNCTION: - - -
MONITORS RELIEF VALVE
POSITION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC240135
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	4	AN+DATA	YES	NOTE 2
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/88	122	1	2	TEST-IDENT	NA	NOTE 3
ABNORMAL	94	122	1	2	TEST-IDENT	NA	
ACCIDENT	175	405	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-IDENT	NA	
ABNORMAL	+.25"WG	ATMOS	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	63	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-IDENT	NA	
ABNORMAL	50	100	1	2	TEST-IDENT	NA	
ACCIDENT	100	STEAM	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	5.1E5		1			NA	
ACC GAMMA	5.3E7	2.2E8	1	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # TEST-07-511-5002E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 32-8-C3
4. SWEC CALC NO. 12177-EQS-30, REV 0

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. OPREABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN BY ANALYSIS.
3. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071WBM____ REV 0

09-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SVV*NBY232
SPEC NO.: C071W
SYSTEM: MAIN STEAM
SAFETY RELIEF VALVES

TYPE: (DESCRIPTION)
CHARGE CONVERTER (PRE AMP)

MANUFACTURER: TEC

MODEL NO.: 504A

SAFETY FUNCTION: - - -
MONITORS RELIEF VALVE
POSITION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC240135
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	4	AN+DATA	YES	NOTE 2
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/88	122	1	2	TEST-IDENT	NA	NOTE 3
ABNORMAL	94	122	1	2	TEST-IDENT	NA	
ACCIDENT	175	405	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-IDENT	NA	
ABNORMAL	+.25"WG	ATMOS	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	63	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-IDENT	NA	
ABNORMAL	50	100	1	2	TEST-IDENT	NA	
ACCIDENT	100	STEAM	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	5.1E5		1			NA	
ACC GAMMA	5.3E7	2.2E8	1	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # TEST-07-511-5002E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 32-8-C3
4. SWEC CALC NO. 12177-EQS-30, REV 0

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. OPREABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN BY ANALYSIS.
3. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071WBN____ REV 0

09-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SVV*NBY233
SPEC NO.: C071W
SYSTEM: MAIN STEAM
SAFETY RELIEF VALVES

TYPE: (DESCRIPTION)
CHARGE CONVERTER (PRE AMP)

MANUFACTURER: TEC

MODEL NO.: 504A

SAFETY FUNCTION: - - -
MONITORS RELIEF VALVE
POSITION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC240135
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	4	AN+DATA	YES	NOTE 2
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/88	122	1	2	TEST-IDENT	NA	NOTE 3
ABNORMAL	94	122	1	2	TEST-IDENT	NA	
ACCIDENT	175	405	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-IDENT	NA	
ABNORMAL	+.25"WG	ATMOS	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	63	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-IDENT	NA	
ABNORMAL	50	100	1	2	TEST-IDENT	NA	
ACCIDENT	100	STEAM	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	5.1E5		1			NA	
ACC GAMMA	5.3E7	2.2E8	1	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # TEST-07-511-5002E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 32-8-C3
4. SWEC CALC NO. 12177-EQS-30, REV 0

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. OPREABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN BY ANALYSIS.
3. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071WBO____ REV 0

09-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SVV*NBY234
SPEC NO.: C071W
SYSTEM: MAIN STEAM
SAFETY RELIEF VALVES

TYPE: (DESCRIPTION)
CHARGE CONVERTER (PRE AMP)

MANUFACTURER: TEC

MODEL NO.: 504A

SAFETY FUNCTION: - - -
MONITORS RELIEF VALVE
POSITION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC240135
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	4	AN+DATA	YES	NOTE 2
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/88	122	1	2	TEST-IDENT	NA	NOTE 3
ABNORMAL	94	122	1	2	TEST-IDENT	NA	
ACCIDENT	175	405	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-IDENT	NA	
ABNORMAL	+.25"WG	ATMOS	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	63	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-IDENT	NA	
ABNORMAL	50	100	1	2	TEST-IDENT	NA	
ACCIDENT	100	STEAM	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	5.1E5		1			NA	
ACC GAMMA	5.3E7	2.2E8	1	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # TEST-07-511-5002E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 32-8-C1
4. SWEC CALC NO. 12177-EQS-30, REV 0

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. OPREABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN BY ANALYSIS.
3. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071WBP____ REV 0

09-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SVV*NBY235
SPEC NO.: C071W
SYSTEM: MAIN STEAM
SAFETY RELIEF VALVES

TYPE: (DESCRIPTION)
CHARGE CONVERTER (PRE AMP)

MANUFACTURER: TEC

MODEL NO.: 504A

SAFETY FUNCTION: - - -
MONITORS RELIEF VALVE
POSITION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC240135
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	4	AN+DATA	YES	NOTE 2
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/88	122	1	2	TEST-IDENT	NA	NOTE 3
ABNORMAL	94	122	1	2	TEST-IDENT	NA	
ACCIDENT	175	405	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-IDENT	NA	
ABNORMAL	+.25"WG	ATMOS	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	63	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-IDENT	NA	
ABNORMAL	50	100	1	2	TEST-IDENT	NA	
ACCIDENT	100	STEAM	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	5.1E5		1			NA	
ACC GAMMA	5.3E7	2.2E8	1	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # TEST-07-511-5002E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 32-8-C3
4. SWEC CALC NO. 12177-EQS-30, REV 0

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. OPREABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN BY ANALYSIS.
3. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071WBQ____ REV 0

09-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SVV*NBY236
SPEC NO.: C071W
SYSTEM: MAIN STEAM
SAFETY RELIEF VALVES

TYPE: (DESCRIPTION)
CHARGE CONVERTER (PRE AMP)

MANUFACTURER: TEC

MODEL NO.: 504A

SAFETY FUNCTION: - - -
MONITORS RELIEF VALVE
POSITION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC240135
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	4	AN+DATA	YES	NOTE 2
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/88	122	1	2	TEST-IDENT	NA	NOTE 3
ABNORMAL	94	122	1	2	TEST-IDENT	NA	
ACCIDENT	175	405	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-IDENT	NA	
ABNORMAL	+.25"WG	ATMOS	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	63	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	100	1	2	TEST-IDENT	NA	
ABNORMAL	50	100	1	2	TEST-IDENT	NA	
ACCIDENT	100	STEAM	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	5.1E5		1			NA	
ACC GAMMA	5.3E7	2.2E8	1	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # TEST-07-511-5002E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 32-8-C3
4. SWEC CALC NO. 12177-EQS-30, REV 0

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. OPREABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN BY ANALYSIS.
3. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_C071WBR____ REV 0

11-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SVV*NBY237
SPEC NO.: C071W
SYSTEM: MAIN STEAM
SAFETY RELIEF VALVES

TYPE: (DESCRIPTION)
CHARGE CONVERTER (PRE AMP)

MANUFACTURER: TEC

MODEL NO.: 504A

SAFETY FUNCTION: - - -
MONITORS RELIEF VALVE
POSITION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: SC240135
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE OR SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	4	AN+DATA	YES	NOTE 2
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/88	122	1	2	TEST-IDENT	NA	NOTE 3
ABNORMAL	94	122	1	2	TEST-IDENT	NA	
ACCIDENT	175	405	1	2	TEST-IDENT	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-.25"WG	ATMOS	1	2	TEST-IDENT	NA	
ABNORMAL	+.25"WG	ATMOS	1	2	TEST-IDENT	NA	
ACCIDENT	2.8	63	1	2	TEST-IDENT	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	100	1	2	TEST-IDENT	NA	
ABNORMAL	50	100	1	2	TEST-IDENT	NA	
ACCIDENT	100	STEAM	1	2	TEST-IDENT	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	5.1E5		1			NA	
ACC GAMMA	5.3E7	2.2E8	1	2	TEST-IDENT	YES	
NORM BETA	NA		1			NA	
ACC BETA	1.3E7		1			YES	
NEUTRON	NA		1			NA	
SPRAY	NA	YES	NA	2	TEST-IDENT	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # TEST-07-511-5002E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. 32-8-C1
4. SWEC CALC NO. 12177-EQS-30, REV 0

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. OPREABILITY PERIOD EXTENDED FROM 33 DAYS TESTED VALUE, TO 100 DAYS PLUS MARGIN BY ANALYSIS.
3. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E011TAA____ REV 0

12-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SCV*XD301B
SPEC NO.: E011T
SYSTEM: SCV - STATION
CONTROL BUS (VITAL)-AC SUPPLY

TYPE: (DESCRIPTION)
GENERAL PURPOSE DRY-TYPE
TRANSFORMER 25 KVA 80/40C

MANUFACTURER: SQUARE D

MODEL NO.: NA

SAFETY FUNCTION: - - -
SUPPLY POWER TO CLASS 1E
CONTROLS AS REQUIRED

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABS 24036
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	REF 2
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/88	104/88	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	NA	NA	1	NA		NA	
ACCIDENT	NA	NA	1	2		NA	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	NA	NA	1	NA		NA	
ACCIDENT	NA	NA	1	NA		NA	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	90	1	2	TEST-SIM	NA	
ABNORMAL	NA	NA	1	NA		NA	
ACCIDENT	NA	NA	1	NA		NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.8E3		1	2	TEST-SIM	NA	
ACC GAMMA	2.2E4	1.1E6	1	2	TEST-SIM	YES	
NORM BETA	NA		1	NA		NA	
ACC BETA	NA		1	NA		NA	
NEUTRON	NA		1	NA		NA	
SPRAY	NA	NA	NA	NA		NA	
SUBMERGENCE	NA	NA	NA	NA		NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. SQUARE D QUALIFICATION REPORT/WYLE LAB. REPORT NO. 44509-1, REV. B. RECEIVED 11/19/81, TRANSMITTAL TO VENDOR ON 12/09/81.
3. EQUIPMENT OPERABILITY TIME DATA SHEET: LATER FILE NO. SCV-2

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E011TAB____ REV 0

12-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SCV*XD101A
SPEC NO.: E011T
SYSTEM: SCV-STATION
CONTROL BUS (VITAL) AC SUPPLY

TYPE: (DESCRIPTION)
GENERAL PURPOSE DRY-TYPE
TRANSFORMER 25 KVA 80/40C

MANUFACTURER: SQUARE D

MODEL NO.: NA

SAFETY FUNCTION: - - -
SUPPLY POWER TO CLASS 1E
CONTROLS AS REQUIRED

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABN 24033
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	REF 2
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/89	104/89	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	NA	NA	1	NA		NA	
ACCIDENT	NA	NA	1	2		NA	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	NA	NA	1	NA		NA	
ACCIDENT	NA	NA	1	NA		NA	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	90	1	2	TEST-SIM	NA	
ABNORMAL	NA	NA	1	NA		NA	
ACCIDENT	NA	NA	1	NA		NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	1.8E3		1	2	TEST-SIM	NA	
ACC GAMMA	2.2E4	1.1E6	1	2	TEST-SIM	YES	
NORM BETA	NA		1	NA		NA	
ACC BETA	NA		1	NA		NA	
NEUTRON	NA		1	NA		NA	
SPRAY	NA	NA	NA	NA		NA	
SUBMERGENCE	NA	NA	NA	NA		NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. SQUARE D QUALIFICATION REPORT/WYLE LAB. REPORT NO. 44509-1, REV. B. RECEIVED 11/19/81, TRANSMITTAL TO VENDOR ON 12/09/81.
3. EQUIPMENT OPERABILITY TIME DATA SHEET: LATER FILE NO. SCV-2

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E011TAC____ REV 0

25-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2EJA*XD100A
SPEC NO.: E011T
SYSTEM: EJA - UNIT
SUBSTATION EMERGENCY AC
CONTROL AND HEATER SUPPLY
TYPE: (DESCRIPTION)
GENERAL PURPOSE DRY-TYPE
TRANSFORMER 30 KVA 80/40C

MANUFACTURER: SQUARE D

MODEL NO.: NA

SAFETY FUNCTION: - - -
SUPPLY POWER TO CLASS 1E
CONTROLS AS REQUIRED

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABN24033
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	REF 2
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/89	104/89	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	NA	NA	1	NA		NA	
ACCIDENT	NA	NA	1	2		NA	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	NA	NA	1	NA		NA	
ACCIDENT	NA	NA	1	NA		NA	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	90	1	2	TEST-SIM	NA	
ABNORMAL	NA	NA	1	NA		NA	
ACCIDENT	NA	NA	1	NA		NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.8E3		1	2	TEST-SIM	NA	
ACC GAMMA	2.2E4	1.1E6	1	2	TEST-SIM	YES	
NORM BETA	NA		1	NA		NA	
ACC BETA	NA		1	NA		NA	
NEUTRON	NA		1	NA		NA	
SPRAY	NA	NA	NA	NA		NA	
SUBMERGENCE	NA	NA	NA	NA		NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. SQUARE D QUALIFICATION REPORT/WYLE LAB. REPORT NO. 44509-1, REV. B. RECEIVED 11/19/81, TRANSMITTAL TO VENDOR ON 12/09/81.
3. EQUIPMENT OPERABILITY TIME DATA SHEET: LATER FILE NO. EJA-2

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E011TAD____ REV 0

12-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2EJA*XD300B
SPEC NO.: E011T
SYSTEM: EJA - UNIT
SUBSTATION EMERGENCY AC
CONTROL AND HEATER SUPPLY
TYPE: (DESCRIPTION)
GENERAL PURPOSE DRY-TYPE
TRANSFORMER 30 KVA 80/40C

MANUFACTURER: SQUARE D

MODEL NO.: NA

SAFETY FUNCTION: - - -
SUPPLY POWER TO CLASS 1E
CONTROLS AS REQUIRED

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABS 24036
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	REF 2
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/88	104/88	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	NA	NA	1	NA		NA	
ACCIDENT	NA	NA	1	2		NA	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	NA	NA	1	NA		NA	
ACCIDENT	NA	NA	1	NA		NA	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	90	1	2	TEST-SIM	NA	
ABNORMAL	NA	NA	1	NA		NA	
ACCIDENT	NA	NA	1	NA		NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	1.8E3		1	2	TEST-SIM	NA	
ACC GAMMA	2.2E4	1.1E6	1	2	TEST-SIM	YES	
NORM BETA	NA		1	NA		NA	
ACC BETA	NA		1	NA		NA	
NEUTRON	NA		1	NA		NA	
SPRAY	NA	NA	NA	NA		NA	
SUBMERGENCE	NA	NA	NA	NA		NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. SQUARE D QUALIFICATION REPORT/WYLE LAB. REPORT NO. 44509-1, REV. B. RECEIVED 11/19/81, TRANSMITTAL TO VENDOR ON 12/09/81.
3. EQUIPMENT OPERABILITY TIME DATA SHEET: LATER FILE NO. EJA-2

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E011TAE____ REV 0

11-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HTS*XD001
SPEC NO.: E011T
SYSTEM: HTS - HEAT TRACING SYSTEM

TYPE: (DESCRIPTION)
GENERAL PURPOSE DRY-TYPE TRANSFORMER 25 KVA 80/40C

MANUFACTURER: SQUARE D

MODEL NO.: NA

SAFETY FUNCTION: - - -
SUPPLY POWER TO CLASS 1E CONTROLS AS REQUIRED

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABN24033
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	REF 2
TEMP (F):	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - -	NOTE 1
NORMAL	104/89	104/89	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	NA	NA	1	NA		NA	
ACCIDENT	NA	NA	1	2		NA	
PRESS(PSIG)	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	NA	NA	1	NA		NA	
ACCIDENT	NA	NA	1	NA		NA	
RH (%):	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - -	NOTE 1
NORMAL	50	90	1	2	TEST-SIM	NA	
ABNORMAL	NA	NA	1	NA		NA	
ACCIDENT	NA	NA	1	NA		NA	
RADIATION:	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - - - - -	- - -	NOTE 1
NORM GAMMA	1.8E3		1	2	TEST-SIM	NA	
ACC GAMMA	2.2E4	1.1E6	1	2	TEST-SIM	YES	
NORM BETA	NA		1	NA		NA	
ACC BETA	NA		1	NA		NA	
NEUTRON	NA		1	NA		NA	
SPRAY	NA	NA	NA	NA		NA	
SUBMERGENCE	NA	NA	NA	NA		NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. SQUARE D QUALIFICATION REPORT/WYLE LAB. REPORT NO. 44509-1, REV. B. RECEIVED 11/19/81, TRANSMITTAL TO VENDOR ON 12/09/81.
3. EQUIPMENT OPERABILITY TIME DATA SHEET: LATER FILE NO. HTS-1

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E011TAF____ REV 0

11-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2HTS*XD003
SPEC NO.: E011T
SYSTEM: HTS - HEAT TRACING SYSTEM

TYPE: (DESCRIPTION)
GENERAL PURPOSE DRY-TYPE TRANSFORMER 25 KVA 80/40C

MANUFACTURER: SQUARE D

MODEL NO.: NA

SAFETY FUNCTION: - - -
SUPPLY POWER TO CLASS 1E HEAT TRACING

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABS 24036
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	TEST-SIM	YES	REF 2
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/88	104/88	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	NA	NA	1	NA		NA	
ACCIDENT	NA	NA	1	2		NA	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25"WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	NA	NA	1	NA		NA	
ACCIDENT	NA	NA	1	NA		NA	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	90	1	2	TEST-SIM	NA	
ABNORMAL	NA	NA	1	NA		NA	
ACCIDENT	NA	NA	1	NA		NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	1.8E3		1	2	TEST-SIM	NA	
ACC GAMMA	2.2E4	1.1E6	1	2	TEST-SIM	YES	
NORM BETA	NA		1	NA		NA	
ACC BETA	NA		1	NA		NA	
NEUTRON	NA		1	NA		NA	
SPRAY	NA	NA	NA	NA		NA	
SUBMERGENCE	NA	NA	NA	NA		NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. SQUARE D QUALIFICATION REPORT/WYLE LAB. REPORT NO. 44509-1, REV. B. RECEIVED 11/19/81, TRANSMITTAL TO VENDOR ON 12/09/81.
3. EQUIPMENT OPERABILITY TIME DATA SHEET: LATER FILE HTS-1

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E014TAA____ REV 0

12-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2EJA*PNL100A
SPEC NO.: E014T
SYSTEM: EJA-UNIT SUBSTATION
EMERGENCY AC CONTROL & HEATER
SUPPLY
TYPE: (DESCRIPTION)
PANELBOARD 120/240V CLASS

MANUFACTURER: BROWN BOVERI

MODEL NO.: CDP4

SAFETY FUNCTION: - - -
SUPPLY POWER TO CLASS 1E
COMPONENTS

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABN24033
SUBMERGENCE:
SPRAY:
EQUIPMENT NOT SUBJECT TO
SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL YES
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/89	104/95	1	2	AN + DATA	NA	NOTE 2
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25	ATMOS	1	2	AN + DATA	NA	
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	90	1	2	AN + DATA	NA	
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.8E3	-	1	2	AN + DATA	NA	
ACC GAMMA	2.2E4	2.0E6	1	2	AN + DATA	YES	
NORM BETA	NA	-	1		NA	NA	
ACC BETA	NA	-	1		NA	NA	
NEUTRON	NA	-	1		NA	NA	
SPRAY	NA	NA	NA	NA		NA	
SUBMERGENCE	NA	NA	NA	NA		NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 01.420-5000B
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. EJA-1

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

ANINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E014TAB____ REV 0

12-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2EJA*PNL300B
SPEC NO.: E014T
SYSTEM: EJA-UNIT SUBSTATION
EMERGENCY AC CONTROL & HEATER
SUPPLY
TYPE: (DESCRIPTION)
PANELBOARD 120/240V CLASS

MANUFACTURER: BROWN BOVERI

MODEL NO.: CDP4

SAFETY FUNCTION: - - -
SUPPLY POWER TO CLASS 1E
COMPONENTS

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABS24036
SUBMERGENCE:
SPRAY:
EQUIPMENT NOT SUBJECT TO
SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL YES
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/88	104/95	1	2	AN + DATA	NA	NOTE 2
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25	ATMOS	1	2	AN + DATA	NA	
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	90	1	2	AN + DATA	NA	
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.8E3	-	1	2	AN + DATA	NA	
ACC GAMMA	2.2E4	2.0E6	1	2	AN + DATA	YES	
NORM BETA	NA	-	1		NA	NA	
ACC BETA	NA	-	1		NA	NA	
NEUTRON	NA	-	1		NA	NA	
SPRAY	NA	NA	NA	NA		NA	
SUBMERGENCE	NA	NA	NA	NA		NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 01.420-5000B
3. EQUIPMENT OPERABILITY DATA SHEET: FILE NO. EJA-1

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E014TAC____ REV 0

12-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2EJS*PNL101A
SPEC NO.: E014T
SYSTEM: EJS-UNIT SUBSTATION
EMERGENCY AC CONTROL & HEATER
SUPPLY
TYPE: (DESCRIPTION)
PANELBOARD 600 V CLASS

MANUFACTURER: BROWN BOVERI

MODEL NO.: CDP4

SAFETY FUNCTION: - - -
SUPPLY POWER TO CLASS 1E
COMPONENTS

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABS24033
SUBMERGENCE:
SPRAY:
EQUIPMENT NOT SUBJECT TO
SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL YES
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/89	104/95	1	2	AN + DATA	NA	NOTE 2
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25	ATMOS	1	2	AN + DATA	NA	
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	90	1	2	AN + DATA	NA	
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.8E3	-	1	2	AN + DATA	NA	
ACC GAMMA	2.2E4	2.0E6	1	2	AN + DATA	YES	
NORM BETA	NA	-	1		NA	NA	
ACC BETA	NA	-	1		NA	NA	
NEUTRON	NA	-	1		NA	NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 01.420-5000B
3. EQUIPMENT OPERABILITY DATA SHEET: FILE NO. EJS-2

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E014TAD____ REV 0

12-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2EJS*PNL103A
SPEC NO.: E014T
SYSTEM: EJS-UNIT SUBSTATION
EMERGENCY

TYPE: (DESCRIPTION)
PANELBOARD 600 V CLASS

MANUFACTURER: BROWN BOVERI

MODEL NO.: CDP4

SAFETY FUNCTION: - - -
SUPPLY POWER TO CLASS 1E
COMPONENTS

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABS24033
SUBMERGENCE:
SPRAY:
EQUIPMENT NOT SUBJECT TO
SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL YES
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/89	104/95	1	2	AN + DATA	NA	NOTE 2
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25	ATMOS	1	2	AN + DATA	NA	
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	90	1	2	AN + DATA	NA	
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.8E3	-	1	2	AN + DATA	NA	
ACC GAMMA	2.2E4	2.0E6	1	2	AN + DATA	YES	
NORM BETA	NA	-	1		NA	NA	
ACC BETA	NA	-	1		NA	NA	
NEUTRON	NA	-	1		NA	NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 01.420-5000B
3. EQUIPMENT OPERABILITY DATA SHEET: FILE NO. EJS-2

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

ANINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E014TAE____ REV 0

12-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2EJS*PNL104A
SPEC NO.: E014T
SYSTEM: EJS-UNIT SUBSTATION
EMERGENCY

TYPE: (DESCRIPTION)
PANELBOARD 600 V CLASS

MANUFACTURER: BROWN BOVERI

MODEL NO.: CDP4

SAFETY FUNCTION: - - -
SUPPLY POWER TO CLASS 1E
COMPONENTS

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABS24033
SUBMERGENCE:
SPRAY:
EQUIPMENT NOT SUBJECT TO
SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL YES
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/89	104/95	1	2	AN + DATA	NA	NOTE 2
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25	ATMOS	1	2	AN + DATA	NA	
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	90	1	2	AN + DATA	NA	
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.8E3	-	1	2	AN + DATA	NA	
ACC GAMMA	2.2E4	2.0E6	1	2	AN + DATA	YES	
NORM BETA	NA	-	1		NA	NA	
ACC BETA	NA	-	1		NA	NA	
NEUTRON	NA	-	1		NA	NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 01.420-5000B
3. EQUIPMENT OPERABILITY DATA SHEET: FILE NO. EJS-2

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E014TAF____ REV 0

12-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2EJS*PNL302B
SPEC NO.: E014T
SYSTEM: EJS-UNIT SUBSTATION
EMERGENCY

TYPE: (DESCRIPTION)
PANELBOARD 600 V CLASS

MANUFACTURER: BROWN BOVERI

MODEL NO.: CDP4

SAFETY FUNCTION: - - -
SUPPLY POWER TO CLASS 1E
COMPONENTS

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABS24036
SUBMERGENCE:
SPRAY:
EQUIPMENT NOT SUBJECT TO
SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL YES
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/88	104/95	1	2	AN + DATA	NA	NOTE 2
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25	ATMOS	1	2	AN + DATA	NA	
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	90	1	2	AN + DATA	NA	
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.8E3	-	1	2	AN + DATA	NA	
ACC GAMMA	2.2E4	2.0E6	1	2	AN + DATA	YES	
NORM BETA	NA	-	1		NA	NA	
ACC BETA	NA	-	1		NA	NA	
NEUTRON	NA	-	1		NA	NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 01.420-5000B
3. EQUIPMENT OPERABILITY DATA SHEET: FILE NO. EJS-2

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

ANINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E014TAG____ REV 0

12-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2EJS*PNL303B
SPEC NO.: E014T
SYSTEM: EJS-UNIT SUBSTATION
EMERGENCY

TYPE: (DESCRIPTION)
PANELBOARD 600 V CLASS

MANUFACTURER: BROWN BOVERI

MODEL NO.: CDP4

SAFETY FUNCTION: - - -
SUPPLY POWER TO CLASS 1E
COMPONENTS

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABS24036
SUBMERGENCE:
SPRAY:
EQUIPMENT NOT SUBJECT TO
SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL YES
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/88	104/95	1	2	AN + DATA	NA	NOTE 2
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25	ATMOS	1	2	AN + DATA	NA	
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	90	1	2	AN + DATA	NA	
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.8E3	-	1	2	AN + DATA	NA	
ACC GAMMA	2.2E4	2.0E6	1	2	AN + DATA	YES	
NORM BETA	NA	-	1		NA	NA	
ACC BETA	NA	-	1		NA	NA	
NEUTRON	NA	-	1		NA	NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 01.420-5000B
3. EQUIPMENT OPERABILITY DATA SHEET: FILE NO. EJS-2

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

ANINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E014TAH____ REV 0

12-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2EJS*PNL304B
SPEC NO.: E014T
SYSTEM: EJS-UNIT SUBSTATION
EMERGENCY

TYPE: (DESCRIPTION)
PANELBOARD 600 V CLASS

MANUFACTURER: BROWN BOVERI

MODEL NO.: CDP4

SAFETY FUNCTION: - - -
SUPPLY POWER TO CLASS 1E
COMPONENTS

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABS24036
SUBMERGENCE:
SPRAY:
EQUIPMENT NOT SUBJECT TO
SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL YES
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/88	104/95	1	2	AN + DATA	NA	NOTE 2
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25	ATMOS	1	2	AN + DATA	NA	
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	90	1	2	AN + DATA	NA	
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.8E3	-	1	2	AN + DATA	NA	
ACC GAMMA	2.2E4	2.0E6	1	2	AN + DATA	YES	
NORM BETA	NA	-	1		NA	NA	
ACC BETA	NA	-	1		NA	NA	
NEUTRON	NA	-	1		NA	NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 01.420-5000B
3. EQUIPMENT OPERABILITY DATA SHEET. FILE NO. EJS-2

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

ANINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E014TAI____ REV 0

12-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SCV*PNL101A
SPEC NO.: E014T
SYSTEM: SCV-STATION CONTROL
BUS (VITAL)-AC SUPPLY

TYPE: (DESCRIPTION)
PANELBOARD 120/240V CLASS

MANUFACTURER: BROWN BOVERI

MODEL NO.: CDP4

SAFETY FUNCTION: - - -
SUPPLY POWER TO CLASS 1E
COMPONENTS

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABS24033
SUBMERGENCE:
SPRAY:
EQUIPMENT NOT SUBJECT TO
SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL YES
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/89	104/95	1	2	AN + DATA	NA	NOTE 2
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25	ATMOS	1	2	AN + DATA	NA	
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	90	1	2	AN + DATA	NA	
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.8E3	-	1	2	AN + DATA	NA	
ACC GAMMA	2.2E4	2.0E6	1	2	AN + DATA	YES	
NORM BETA	NA	-	1		NA	NA	
ACC BETA	NA	-	1		NA	NA	
NEUTRON	NA	-	1		NA	NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 01.420-5000B
3. EQUIPMENT OPERABILITY DATA SHEET: FILE NO. SCV-1

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

ANINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E014TAJ____ REV 0

12-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2SCV*PNL301B
SPEC NO.: E014T
SYSTEM: SCV-STATION CONTROL
BUS (VITAL)-AC SUPPLY

TYPE: (DESCRIPTION)
PANELBOARD 120/240 CLASS

MANUFACTURER: BROWN BOVERI

MODEL NO.: CDP4

SAFETY FUNCTION: - - -
SUPPLY POWER TO CLASS 1E
COMPONENTS

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABS24036
SUBMERGENCE:
SPRAY:
EQUIPMENT NOT SUBJECT TO
SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL YES
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - - -	- - -	- NOTE 1
NORMAL	104/88	104/95	1	2	AN + DATA	NA	NOTE 2
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - - -	- - -	- NOTE 1
NORMAL	-0.25	ATMOS	1	2	AN + DATA	NA	
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - - -	- - -	- NOTE 1
NORMAL	50	90	1	2	AN + DATA	NA	
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - - -	- - -	- NOTE 1
NORM GAMMA	1.8E3	-	1	2	AN + DATA	NA	
ACC GAMMA	2.2E4	2.0E6	1	2	AN + DATA	YES	
NORM BETA	NA	-	1		NA	NA	
ACC BETA	NA	-	1		NA	NA	
NEUTRON	NA	-	1		NA	NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 01.420-5000B
3. EQUIPMENT OPERABILITY DATA SHEET: FILE NO. SCV-1

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E014TAM____ REV 0

12-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2VBS*PNLA105
SPEC NO.: E014T
SYSTEM: VBS-VITAL BUS SYSTEM
(INCOMING SUPPLY FROM INVERTER

TYPE: (DESCRIPTION)
PANELBOARD 120/240 V CLASS

MANUFACTURER: BROWN BOVERI

MODEL NO.: SERIES 6 VB

SAFETY FUNCTION: - - -
SUPPLY POWER TO CLASS 1E
COMPONENTS

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABN24033
SUBMERGENCE:
SPRAY:
EQUIPMENT NOT SUBJECT TO
SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL YES
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/89	104/95	1	2	AN + DATA	NA	NOTE 2
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25	ATMOS	1	2	AN + DATA	NA	
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	90	1	2	AN + DATA	NA	
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.8E3	-	1	2	AN + DATA	NA	
ACC GAMMA	2.2E4	2.0E6	1	2	AN + DATA	YES	
NORM BETA	NA	-	1		NA	NA	
ACC BETA	NA	-	1		NA	NA	
NEUTRON	NA	-	1		NA	NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 01.420-5000B
3. EQUIPMENT OPERABILITY DATA SHEET: FILE NO. VBS-1

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E014TAN____ REV 0

12-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2VBS*PNLB105
SPEC NO.: E014T
SYSTEM: VBS-VITAL BUS SYSTEM
(INCOMING SUPPLY FROM INVERTER

TYPE: (DESCRIPTION)
PANELBOARD 120/240 V CLASS

MANUFACTURER: BROWN BOVERI

MODEL NO.: SERIES 6 VB

SAFETY FUNCTION: - - -
SUPPLY POWER TO CLASS 1E
COMPONENTS

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABN24033
SUBMERGENCE:
SPRAY:
EQUIPMENT NOT SUBJECT TO
SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL YES
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/89	104/95	1	2	AN + DATA	NA	NOTE 2
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25	ATMOS	1	2	AN + DATA	NA	
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	90	1	2	AN + DATA	NA	
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.8E3	-	1	2	AN + DATA	NA	
ACC GAMMA	2.2E4	2.0E6	1	2	AN + DATA	YES	
NORM BETA	NA	-	1		NA	NA	
ACC BETA	NA	-	1		NA	NA	
NEUTRON	NA	-	1		NA	NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 01.420-5000B
3. EQUIPMENT OPERABILITY DATA SHEET: FILE NO. VBS-1

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E014TAO____ REV 0

12-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2VBS*PNLA106
SPEC NO.: E014T
SYSTEM: VBS-VITAL BUS SYSTEM
(INCOMING SUPPLY FROM INVERTER

TYPE: (DESCRIPTION)
PANELBOARD 120/240 V CLASS

MANUFACTURER: BROWN BOVERI

MODEL NO.: SERIES 6 VB

SAFETY FUNCTION: - - -
SUPPLY POWER TO CLASS 1E
COMPONENTS

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABN24036
SUBMERGENCE:
SPRAY:
EQUIPMENT NOT SUBJECT TO
SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL YES
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/88	104/95	1	2	AN + DATA	NA	NOTE 2
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25	ATMOS	1	2	AN + DATA	NA	
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	90	1	2	AN + DATA	NA	
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.8E3	-	1	2	AN + DATA	NA	
ACC GAMMA	2.2E4	2.0E6	1	2	AN + DATA	YES	
NORM BETA	NA	-	1		NA	NA	
ACC BETA	NA	-	1		NA	NA	
NEUTRON	NA	-	1		NA	NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 01.420-5000B
3. EQUIPMENT OPERABILITY DATA SHEET: FILE NO. VBS-1

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E014TAP____ REV 0

12-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2VBS*PNLB106
SPEC NO.: E014T
SYSTEM: VBS-VITAL BUS SYSTEM
(INCOMING SUPPLY FROM INVERTER

TYPE: (DESCRIPTION)
PANELBOARD 120/240 V CLASS

MANUFACTURER: BROWN BOVERI

MODEL NO.: SERIES 6 VB

SAFETY FUNCTION: - - -
SUPPLY POWER TO CLASS 1E
COMPONENTS

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABN24036
SUBMERGENCE:
SPRAY:
EQUIPMENT NOT SUBJECT TO
SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL YES
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/88	104/95	1	2	AN + DATA	NA	NOTE 2
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25	ATMOS	1	2	AN + DATA	NA	
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	90	1	2	AN + DATA	NA	
ABNORMAL	NA	NA	1	2	AN + DATA	NA	
ACCIDENT	NA	NA	1	2	AN + DATA	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	1.8E3	-	1	2	AN + DATA	NA	
ACC GAMMA	2.2E4	2.0E6	1	2	AN + DATA	YES	
NORM BETA	NA	-	1		NA	NA	
ACC BETA	NA	-	1		NA	NA	
NEUTRON	NA	-	1		NA	NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 01.420-5000B
3. EQUIPMENT OPERABILITY DATA SHEET: FILE NO. VBS-1

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E015NAA____ REV 0

12-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2EPS*SWG001
SPEC NO.: E015N
SYSTEM:
EPS - SWGR, EMERGENCY, 13.8 KV

TYPE: (DESCRIPTION)
15 KV, 1000 MVA METAL CLAD
SWITCHGEAR

MANUFACTURER: BROWN-BOVERI

MODEL NO.: HK-1000

SAFETY FUNCTION: - - -
TRIPPING OF RCS PUMPS AND MVP
PENETRATION PROTECTION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABN24033
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/89	104/95	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	NA	48 HRS @126	1	2	TEST-SIM	NA	
ACCIDENT	NA	NA	1	2	NA	NA	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25" WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	NA	NA	1	2	NA	NA	
ACCIDENT	NA	NA	1	2	NA	NA	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	90	1	2	TEST-SIM	NA	
ABNORMAL	NA	NA	1	2	NA	NA	
ACCIDENT	NA	NA	1	2	NA	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.8E3		1	2	NA	NA	
ACC GAMMA	2.2E4	1.0E5	1	2	TEST-SIM	YES	NOTE 4
NORM BETA	NA		1	2	NA	NA	
ACC BETA	NA		1	2	NA	NA	
NEUTRON	NA		1	2	NA	NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 1.330-50003C
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. EPS-1

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. BASED ON THE ARRHENIUS CURVES IN REF 2 ALL MATERIALS IN THE SWITCHGEAR SHOW QUALIFIED LIFE SUBSTANTIALLY LONGER THAN 40 YEARS + 100 DAYS AT AVERAGE TEMPERATURE OF 95F TO WHICH THE SWGR IS QUALIFIED BY VENDOR. SINCE NMP2 SWGR IS OPERATED AT 89F, RATHER THAN 95F, AS QUALIFIED, ADDITIONAL OPERATION TIME BEYOND 100 DAYS POST-ACCIDENT IS AVAILABLE.
4. VENDOR TESTED VALUE INCLUDES COMBINED VALUE OF BOTH ACCIDENT AND NORMAL RADIATION VALUES.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E015NAB____ REV 0

12-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2EPS*SWG002
SPEC NO.: E015N
SYSTEM:
EPS - SWGR, EMERGENCY, 13.8 KV

TYPE: (DESCRIPTION)
15 KV, 1000 MVA METAL CLAD
SWITCHGEAR

MANUFACTURER: BROWN-BOVERI

MODEL NO.: HK-1000

SAFETY FUNCTION: - - -
TRIPPING OF RCS PUMPS AND MVP
PENETRATION PROTECTION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABN24033
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/89	104/95	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	NA	48 HRS @126	1	2	TEST-SIM	NA	
ACCIDENT	NA	NA	1	2	NA	NA	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25" WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	NA	NA	1	2	NA	NA	
ACCIDENT	NA	NA	1	2	NA	NA	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	90	1	2	TEST-SIM	NA	
ABNORMAL	NA	NA	1	2	NA	NA	
ACCIDENT	NA	NA	1	2	NA	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.8E3		1	2	NA	NA	
ACC GAMMA	2.2E4	1.0E5	1	2	TEST-SIM	YES	NOTE 4
NORM BETA	NA		1	2	NA	NA	
ACC BETA	NA		1	2	NA	NA	
NEUTRON	NA		1	2	NA	NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 1.330-50003C
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. EPS-1

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. BASED ON THE ARRHENIUS CURVES IN REF 2 ALL MATERIALS IN THE SWITCHGEAR SHOW QUALIFIED LIFE SUBSTANTIALLY LONGER THAN 40 YEARS + 100 DAYS AT AVERAGE TEMPERATURE OF 95F TO WHICH THE SWGR IS QUALIFIED BY VENDOR. SINCE NMP2 SWGR IS OPERATED AT 89F, RATHER THAN 95F, AS QUALIFIED, ADDITIONAL OPERATION TIME BEYOND 100 DAYS POST-ACCIDENT IS AVAILABLE.
4. VENDOR TESTED VALUE INCLUDES COMBINED VALUE OF BOTH ACCIDENT AND NORMAL RADIATION VALUES.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E015NAC____ REV 0

12-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2EPS*SWG003
SPEC NO.: E015N
SYSTEM:
EPS - SWGR, EMERGENCY, 13.8 KV

TYPE: (DESCRIPTION)
15 KV, 1000 MVA METAL CLAD SWITCHGEAR

MANUFACTURER: BROWN-BOVERI

MODEL NO.: HK-1000

SAFETY FUNCTION: - - -
TRIPPING OF RCS PUMPS AND MVP PENETRATION PROTECTION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABN24036
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/88	104/95	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	NA	48 HRS @126	1	2	TEST-SIM	NA	
ACCIDENT	NA	NA	1	2	NA	NA	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25" WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	NA	NA	1	2	NA	NA	
ACCIDENT	NA	NA	1	2	NA	NA	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	90	1	2	TEST-SIM	NA	
ABNORMAL	NA	NA	1	2	NA	NA	
ACCIDENT	NA	NA	1	2	NA	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	1.8E3		1	2	NA	NA	
ACC GAMMA	2.2E4	1.0E5	1	2	TEST-SIM	YES	NOTE 4
NORM BETA	NA		1	2	NA	NA	
ACC BETA	NA		1	2	NA	NA	
NEUTRON	NA		1	2	NA	NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 1.330-50003C
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. EPS-1

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. BASED ON THE ARRHENIUS CURVES IN REF 2 ALL MATERIALS IN THE SWITCHGEAR SHOW QUALIFIED LIFE SUBSTANTIALLY LONGER THAN 40 YEARS + 100 DAYS AT AVERAGE TEMPERATURE OF 95F TO WHICH THE SWGR IS QUALIFIED BY VENDOR. SINCE NMP2 SWGR IS OPERATED AT 89F, RATHER THAN 95F, AS QUALIFIED, ADDITIONAL OPERATION TIME BEYOND 100 DAYS POST-ACCIDENT IS AVAILABLE.
4. VENDOR TESTED VALUE INCLUDES COMBINED VALUE OF BOTH ACCIDENT AND NORMAL RADIATION VALUES.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E015NAD____ REV 0

12-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2EPS*SWG004
SPEC NO.: E015N
SYSTEM:
EPS - SWGR, EMERGENCY, 13.8 KV

TYPE: (DESCRIPTION)
15 KV, 1000 MVA METAL CLAD
SWITCHGEAR

MANUFACTURER: BROWN-BOVERI

MODEL NO.: HK-1000

SAFETY FUNCTION: - - -
TRIPPING OF RCS PUMPS AND MVP
PENETRATION PROTECTION

OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: ABN24036
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO
SUBMERGENCE (OR) SPRAY

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: 2

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	>100 DAYS	3	2	AN+DATA	YES	NOTE 3
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/88	104/95	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	NA	48 HRS @126	1	2	TEST-SIM	NA	
ACCIDENT	NA	NA	1	2	NA	NA	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25" WG	ATMOS	1	2	TEST-SIM	NA	
ABNORMAL	NA	NA	1	2	NA	NA	
ACCIDENT	NA	NA	1	2	NA	NA	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	90	1	2	TEST-SIM	NA	
ABNORMAL	NA	NA	1	2	NA	NA	
ACCIDENT	NA	NA	1	2	NA	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	1.8E3		1	2	NA	NA	
ACC GAMMA	2.2E4	1.0E5	1	2	TEST-SIM	YES	NOTE 4
NORM BETA	NA		1	2	NA	NA	
ACC BETA	NA		1	2	NA	NA	
NEUTRON	NA		1	2	NA	NA	
SPRAY	NA	NA	NA	NA	NA	NA	
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 1.330-50003C
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. EPS-1

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. BASED ON THE ARRHENIUS CURVES IN REF 2 ALL MATERIALS IN THE SWITCHGEAR SHOW QUALIFIED LIFE SUBSTANTIALLY LONGER THAN 40 YEARS + 100 DAYS AT AVERAGE TEMPERATURE OF 95F TO WHICH THE SWGR IS QUALIFIED BY VENDOR. SINCE NMP2 SWGR IS OPERATED AT 89F, RATHER THAN 95F, AS QUALIFIED, ADDITIONAL OPERATION TIME BEYOND 100 DAYS POST-ACCIDENT IS AVAILABLE.
4. VENDOR TESTED VALUE INCLUDES COMBINED VALUE OF BOTH ACCIDENT AND NORMAL RADIATION VALUES.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E021PAA____ REV 0

22-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CES*Z01E
SPEC NO.: E021P
SYSTEM: CES-COMMON
ELECTRICAL SYSTEM

TYPE: (DESCRIPTION)
INSTRUMENT ELECTRICAL PENETRATION 300V

MANUFACTURER: CONAX

MODEL NO.: 10001-03

SAFETY FUNCTION: - - -
PROVIDE CONTINUITY OF ELECTRICAL CIRCUITS AND CONTAINMENT INTEGRITY
OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: PC250621
SUBMERGENCE: NA
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	100 DAYS	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	150/135	248	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	220	248	1	2	TEST-SIM	NA	
ACCIDENT	340	390	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	0.5 TO 1.0	45	1	2	TEST-IDENT	NA	
ABNORMAL	8	62	1	2	TEST-SIM	NA	
ACCIDENT	45	69	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	90	95	1	2	TEST-SIM	NA	
ABNORMAL	100	100	1	2	TEST-SIM	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	3.0E6		1	2	TEST-SIM	NA	
ACC GAMMA	2.5E7	1.10E8	1	2	TEST-SIM	YES	
NORM BETA	6.8E5		1	2	TEST-SIM	NA	
ACC BETA	6.3E8	1.0E9	1	2	TEST-SIM	YES	
NEUTRON	4.2E12		1	4	AN + DATA	NA	NOTE 5
SPRAY	YES	24HR	1	2	TEST-SIM	NA	NOTE 3
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 1.290-5000E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. CES-2
4. CALCULATION # 12177-EQS-019
5. CALCULATION NO. 12177-A10.1-AA-6

NOTES (CONTINUED):

6. FOR PRIMARY CONTAINMENT ELEVATIONS ABOVE 240', THE FLOOD LEVEL CANNOT EXCEED EXCEED ELEVATION 242', WHICH IS THE TOP LEVEL OF DOWNCOMERS.

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. REFERENCES 2.17 AND 2.24 IN REF. 2 OF THIS SCEW SHEET AND CONAX IPS-1054 DESCRIBE APPLICATION OF CHEMICAL SPRAY FOR 24 HOURS DURING LOCA TEST.
4. THE OUTBOARD SIDE OF THE PENETRATION IS QUALIFIED TO THE ENVIRONMENTAL CONDITIONS AT THE INBOARD SIDE, SINCE IT EMPLOYS THE SAME MATERIALS, EXCEPT VITON, AND THE QUALIFIED VALUES ENVELOP THE SPECIFIED VALUES. ADDITIONAL DATA ON VITON SEALS ARE AVAILABLE IN REF. 2.6, CONAX IPS-325, IN REF. 2 OF THIS SCEW SHEET.
5. NEUTRON DOSE AFTER CONVERSION TO GAMMA EQUIVALENT IS NEGLIGIBLE COMPARED WITH ACCIDENT DOSES OF GAMMA AND BETA. SEE REFERENCE 4.

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CES*Z01E
SPEC NO.: E021P

ZONE NO.: SC240135
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	100 DAYS	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/88	248	1	2	TEST-SIM	NA	NOTES 2,4
ABNORMAL	94	248	1	2	TEST-SIM	NA	
ACCIDENT	175	390	1	2	TEST-SIM	YES	NOTE 4
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25 IN WG	45	1	2	TEST-IDENT	NA	
ABNORMAL	-0.25 IN WG	62	1	2	TEST-SIM	NA	
ACCIDENT	2.8	69	1	2	TEST-SIM	YES	NOTE 4
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	NOTE 4
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	5.1E5		1	2	TEST-SIM	NA	
ACC GAMMA	5.3E7	1.10E8	1	2	TEST-SIM	YES	NOTE 4
NORM BETA	NA		1	NA	NA	NA	
ACC BETA	1.3E7		1.4	2	TEST-SIM	YES	NOTE 4
NEUTRON	NA		1	NA	NA	NA	
SPRAY	NA	24 HR	NA	2	TEST-SIM	NA	NOTE 3
SUBMERGENCE	NA	NA	5	NA	NA	NA	

NOTE: SEE PAGE 1 FOR DOCUMENT REFERENCES AND NOTES.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E021PAB____ REV 0

22-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CES*Z02E
SPEC NO.: E021P
SYSTEM: CES-COMMON
ELECTRICAL SYSTEM

TYPE: (DESCRIPTION)
INSTRUMENT ELECTRICAL
PENETRATION 300V

MANUFACTURER: CONAX

MODEL NO.: 10001-01

SAFETY FUNCTION: - - -
PROVIDE CONTINUITY OF
ELECTRICAL CIRCUITS AND
CONTAINMENT INTEGRITY
OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: PC240603
SUBMERGENCE: NA
SPRAY/FROTH: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	100 DAYS	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	150/135	248	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	220	248	1	2	TEST-SIM	NA	
ACCIDENT	340	390	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	0.5 TO 1.0	45	1	2	TEST-IDENT	NA	
ABNORMAL	8	62	1	2	TEST-SIM	NA	
ACCIDENT	45	69	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	90	95	1	2	TEST-SIM	NA	
ABNORMAL	100	100	1	2	TEST-SIM	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	2.8E6		1	2	TEST-SIM	NA	
ACC GAMMA	3.1E7	1.10E8	1	2	TEST-SIM	YES	
NORM BETA	6.8E5		1	2	TEST-SIM	NA	
ACC BETA	6.3E8	1.0E9	1	2	TEST-SIM	YES	
NEUTRON	4.2E12		1,4	NA	AN + DATA	NA	NOTE 5
SPRAY	YES	24HR	1	2	TEST-SIM	NA	NOTE 3
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 1.290-5000E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. CES-2
4. CALCULATION # 12177-EQS-019
5. CALCULATION # 12177 A10.1-AA-6

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. REFERENCES 2.17 AND 2.24 IN REF. 2 OF THIS SCEW SHEET AND CONAX IPS-1054 DESCRIBE APPLICATION OF CHEMICAL SPRAY FOR 24 HOURS DURING LOCA TEST.
4. THE OUTBOARD SIDE OF THE PENETRATION IS QUALIFIED TO THE ENVIRONMENTAL CONDITIONS AT THE INBOARD SIDE, SINCE IT EMPLOYS THE SAME MATERIALS, EXCEPT VITON, AND THE QUALIFIED VALUES ENVELOP THE SPECIFIED VALUES. ADDITIONAL DATA ON VITON SEALS ARE AVAILABLE IN REF. 2.6, CONAX IPS-325, IN REF. 2 OF THIS SCEW SHEET.
5. NEUTRON DOSE AFTER CONVERSION TO GAMMA EQUIVALENT IS NEGLIGIBLE COMPARED WITH ACCIDENT DOSES OF GAMMA AND BETA. SEE REFERENCE 4.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E021PAB____ REV 0

22-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CES*Z02E
SPEC NO.: E021P

ZONE NO.: SC240135
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	100 DAYS	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/88	248	1	2	TEST-SIM	NA	NOTES 2.4
ABNORMAL	94	248	1	2	TEST-SIM	NA	
ACCIDENT	175	390	1	2	TEST-SIM	YES	NOTE 4
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	0.25 IN WG	45	1	2	TEST-IDENT	NA	
ABNORMAL	0.25 IN WG	62	1	2	TEST-SIM	NA	
ACCIDENT	2.8	69	1	2	TEST-SIM	YES	NOTE 4
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	NOTE 4
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	5.1E5		1	2	TEST-SIM	NA	
ACC GAMMA	5.3E7	1.10E8	1	2	TEST-SIM	YES	NOTE 4
NORM BETA	NA		1	NA	NA	NA	
ACC BETA	1.3E7		1,4	2	TEST-SIM	YES	NOTE 4
NEUTRON	NA		1	NA	NA		
SPRAY	NA	24 HR	NA	2	TEST-SIM	NA	NOTE 3
SUBMERGENCE	NA	NA	5	NA	NA	NA	

NOTE: SEE PAGE 1 FOR DOCUMENT REFERENCES AND NOTES.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E021PAC____ REV 0

22-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CES-Z03E
SPEC NO.: E021P
SYSTEM: CES-COMMON
ELECTRICAL SYSTEM

TYPE: (DESCRIPTION)
INSTRUMENT ELECTRICAL
PENETRATION 600V

MANUFACTURER: CONAX

MODEL NO.: 10002-02

SAFETY FUNCTION: - - -
PROVIDE CONTINUITY OF
ELECTRICAL CIRCUITS AND
CONTAINMENT INTEGRITY
OP. CODE: A

ACCURACY - -,
SPEC: NA
DEMO: NA

ZONE NO.: PC250621
SUBMERGENCE: NA
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	100 DAYS	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	150/135	248	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	220	248	1	2	TEST-SIM	NA	
ACCIDENT	340	370	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	0.5 TO 1.0	45	1	2	TEST-IDENT	NA	
ABNORMAL	8	62	1	2	TEST-SIM	NA	
ACCIDENT	45	74	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	90	95	1	2	TEST-SIM	NA	
ABNORMAL	100	100	1	2	TEST-SIM	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	3.0E6		1	2	TEST-SIM	NA	
ACC GAMMA	2.5E7	1.285	1	2	TEST-SIM	YES	
NORM BETA	6.8E5		1	2	TEST-SIM	NA	
ACC BETA	6.3E8	1.0E9	1,4	2	TEST-SIM	YES	
NEUTRON	4.2E12		1,4	NA	AN + DATA	NA	NOTE 5
SPRAY	YES	24HR	1	2	TEST-SIM	NA	NOTE 3
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:
1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 1.290-5000E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. CES-2
4. CALCULATION # 12177-EQS-019
5. CALCULATION # 12177-A10.1-AA-6

NOTES:
1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. REFERENCES 2.17 AND 2.24 IN REF. 2 OF THIS SCEW SHEET AND CONAX IPS-1054 DESCRIBE APPLICATION OF CHEMICAL SPRAY FOR 24 HOURS DURING LOCA TEST.
4. THE OUTBOARD SIDE OF THE PENETRATION IS QUALIFIED TO THE ENVIRONMENTAL CONDITIONS AT THE INBOARD SIDE, SINCE IT EMPLOYS THE SAME MATERIALS, EXCEPT VITON, AND THE QUALIFIED VALUES ENVELOP THE SPECIFIED VALUES. ADDITIONAL DATA ON VITON SEALS ARE AVAILABLE IN REF. 2.6, CONAX IPS-325, IN REF. 2 OF THIS SCEW SHEET.
5. NEUTRON DOSE AFTER CONVERSION TO GAMMA EQUIVALENT IS NEGLIGIBLE COMPARED WITH ACCIDENT DOSES OF GAMMA AND BETA. SEE REFERENCE 4.

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CES-Z03E
SPEC NO.: E021P

ZONE NO.: SC240135
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	100 DAYS	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/88	248	1	2	TEST-SIM	NA	NOTES 2,4
ABNORMAL	94	248	1	2	TEST-SIM	NA	
ACCIDENT	175	370	1	2	TEST-SIM	YES	NOTE 4
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25 IN WG	45	1	2	TEST-IDENT	NA	
ABNORMAL	-0.25 IN WG	62	1	2	TEST-SIM	NA	
ACCIDENT	2.8	74	1	2	TEST-SIM	YES	NOTE 4
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	NOTE 4
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	5.1E5		1	2	TEST-SIM	NA	
ACC GAMMA	5.3E7	1.285	1	2	TEST-SIM	YES	NOTE 4
NORM BETA	NA		1	NA	NA	NA	
ACC BETA	1.3E7		1,4	2	TEST-SIM	YES	NOTE 4
NEUTRON	NA		1	NA	NA		
SPRAY	NA	24 HR	NA	2	TEST-SIM	NA	NOTE 3
SUBMERGENCE	NA	NA	5	NA	NA	NA	

NOTE: SEE PAGE 1 FOR DOCUMENT REFERENCES AND NOTES.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E021PAD____ REV 0

22-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CES-Z04E
SPEC NO.: E021P
SYSTEM: CES-COMMON
ELECTRICAL SYSTEM

TYPE: (DESCRIPTION)
INSTRUMENT ELECTRICAL
PENETRATION 600V

MANUFACTURER: CONAX

MODEL NO.: 10002-01

SAFETY FUNCTION: - - -
PROVIDE CONTINUITY OF
ELECTRICAL CIRCUITS AND
CONTAINMENT INTEGRITY
OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: PC240603
SUBMERGENCE:
SPRAY:

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	100 DAYS	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	150/135	248	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	220	248	1	2	TEST-SIM	NA	
ACCIDENT	340	370	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	0.5 TO 1.0	45	1	2	TEST-IDENT	NA	
ABNORMAL	8	62	1	2	TEST-SIM	NA	
ACCIDENT	45	74	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	90	95	1	2	TEST-SIM	NA	
ABNORMAL	100	100	1	2	TEST-SIM	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	2.8		1	2	TEST-SIM	NA	
ACC GAMMA	3.1E7	1.285	1	2	TEST-SIM	YES	
NORM BETA	6.8E5		1	2	TEST-SIM	NA	
ACC BETA	6.3E8	1.0E9	1,4	2	TEST-SIM	YES	
NEUTRON	4.2E12		1,4	NA	AN + DATA	NA	NOTE 5
SPRAY	YES	24HR	1	2	TEST-SIM	NA	NOTE 3
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 1.290-5000E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. CES-2
4. CALCULATION # 12177-EQS-019
5. FSAR, APPENDIX 6A, TABLE 6A.4-3

NOTES (CONTINUED):

6. FOR PRIMARY CONTAINMENT ELEVATIONS ABOVE 240', THE FLOOD LEVEL CANNOT EXCEED ELEVATION 242', WHICH IS THE TOP LEVEL OF DOWNCOMERS.

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. REFERENCES 2.17 AND 2.24 IN REF. 2 OF THIS SCEW SHEET AND CONAX IPS-1054 DESCRIBE APPLICATION OF CHEMICAL SPRAY FOR 24 HOURS DURING LOCA TEST.
4. THE OUTBOARD SIDE OF THE PENETRATION IS QUALIFIED TO THE ENVIRONMENTAL CONDITIONS AT THE INBOARD SIDE, SINCE IT EMPLOYS THE SAME MATERIALS, EXCEPT VITON, AND THE QUALIFIED VALUES ENVELOP THE SPECIFIED VALUES. ADDITIONAL DATA ON VITON SEALS ARE AVAILABLE IN REF. 2.6, CONAX IPS-325, IN REF. 2 OF THIS SCEW SHEET.
5. NEUTRON DOSE AFTER CONVERSION TO GAMMA EQUIVALENT IS NEGLIGIBLE COMPARED WITH ACCIDENT DOSES OF GAMMA AND BETA. SEE REFERENCE 4.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E021PAD____ REV 0

22-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CES-Z04E
SPEC NO.: E021P

ZONE NO.: SC240135
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	100 DAYS	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/88	248	1	2	TEST-SIM	NA	NOTES 2,4
ABNORMAL	94	248	1	2	TEST-SIM	NA	
ACCIDENT	175	370	1	2	TEST-SIM	YES	NOTE 4
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25 IN WG	45	1	2	TEST-IDENT	NA	
ABNORMAL	-0.25 IN WG	62	1	2	TEST-SIM	NA	
ACCIDENT	2.8	74	1	2	TEST-SIM	YES	NOTE 4
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	NOTE 4
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	5.1E5		1	2	TEST-SIM	NA	
ACC GAMMA	5.3E7	1.285E8	1	2	TEST-SIM	YES	NOTE 4
NORM BETA	NA		1	NA	NA	NA	
ACC BETA	1.3E7		1,4	2	TEST-SIM	YES	NOTE 4
NEUTRON	NA		1	NA	NA		
SPRAY	NA	24 HR	NA	2	TEST-SIM	NA	NOTE 3
SUBMERGENCE	NA	NA	5	NA	NA	NA	

NOTE: SEE PAGE 1 FOR DOCUMENT REFERENCES AND NOTES.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E021PAE____ REV 0

22-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CES*Z05E
SPEC NO.: E021P
SYSTEM: CES-COMMON
ELECTRICAL SYSTEM

TYPE: (DESCRIPTION)
INSTRUMENT ELECTRICAL
PENETRATION 300V

MANUFACTURER: CONAX

MODEL NO.: 10003-01

SAFETY FUNCTION: - - -
PROVIDE CONTINUITY OF
ELECTRICAL CIRCUITS AND
CONTAINMENT INTEGRITY
OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: PC250621
SUBMERGENCE: NA
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	100 DAYS	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	150/135	248	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	220	248	1	2	TEST-SIM	NA	
ACCIDENT	340	370	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	0.5 TO 1.0	45	1	2	TEST-IDENT	NA	
ABNORMAL	8	62	1	2	TEST-SIM	NA	
ACCIDENT	45	74	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	90	95	1	2	TEST-SIM	NA	
ABNORMAL	100	100	1	2	TEST-SIM	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	3.0E6		1	2	TEST-SIM	NA	
ACC GAMMA	2.5E7	1.285E8	1	2	TEST-SIM	YES	
NORM BETA	6.8E5		1	2	TEST-SIM	NA	
ACC BETA	6.3E8	1.0E9	1,4	2	TEST-SIM	YES	
NEUTRON	4.2E12		1,4	NA	AN + DATA	NA	NOTE 5
SPRAY	YES	24HR	1	2	TEST-SIM	NA	NOTE 3
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 1.290-5000E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE CES-2
4. CALCULATION # 12177-EQS-019
5. CALCULATION # 12177-A10.1-AA-6

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. REFERENCES 2.17 AND 2.24 IN REF. 2 OF THIS SCEW SHEET AND CONAX IPS-1054 DESCRIBE APPLICATION OF CHEMICAL SPRAY FOR 24 HOURS DURING LOCA TEST.
4. THE OUTBOARD SIDE OF THE PENETRATION IS QUALIFIED TO THE ENVIRONMENTAL CONDITIONS AT THE INBOARD SIDE, SINCE IT EMPLOYS THE SAME MATERIALS, EXCEPT VITON, AND THE QUALIFIED VALUES ENVELOP THE SPECIFIED VALUES. ADDITIONAL DATA ON VITON SEALS ARE AVAILABLE IN REF. 2.6, CONAX IPS-325, IN REF. 2 OF THIS SCEW SHEET.
5. NEUTRON DOSE AFTER CONVERSION TO GAMMA EQUIVALENT IS NEGLIGIBLE COMPARED WITH ACCIDENT DOSES OF GAMMA AND BETA. SEE REFERENCE 4.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E021PAE____ REV 0

22-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CES*ZOSE
SPEC NO.: E021P

ZONE NO.: SC240135
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	100 DAYS	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/88	248	1	2	TEST-SIM	NA	NOTES 2,4
ABNORMAL	94	248	1	2	TEST-SIM	NA	
ACCIDENT	175	370	1	2	TEST-SIM	YES	NOTE 4
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25 IN WG	45	1	2	TEST-IDENT	NA	
ABNORMAL	-0.25 IN WG	62	1	2	TEST-SIM	NA	
ACCIDENT	2.8	74	1	2	TEST-SIM	YES	NOTE 4
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	NOTE 4
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	5.1E5		1	2	TEST-SIM	NA	
ACC GAMMA	5.3E7	1.285E8	1	2	TEST-SIM	YES	NOTE 4
NORM BETA	NA		1	NA	NA	NA	
ACC BETA	1.3E7		1	2	TEST-SIM	YES	NOTE 4
NEUTRON	NA		1	NA	NA		
SPRAY	NA	24 HR	NA	2	TEST-SIM	NA	NOTE 3
SUBMERGENCE	NA	NA	5	NA	NA	NA	

NOTE: SEE PAGE 1 FOR DOCUMENT REFERENCES AND NOTES.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E021PAF____ REV 0

22-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CES*Z06E
SPEC NO.: E021P
SYSTEM: CES-COMMON
ELECTRICAL SYSTEM

TYPE: (DESCRIPTION)
INSTRUMENT ELECTRICAL
PENETRATION 300V

MANUFACTURER: CONAX

MODEL NO.: 10003-07

SAFETY FUNCTION: - - -
PROVIDE CONTINUITY OF
ELECTRICAL CIRCUITS AND
CONTAINMENT INTEGRITY
OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: PC240603
SUBMERGENCE: NA
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	100 DAYS	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	150/135	248	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	220	248	1	2	TEST-SIM	NA	
ACCIDENT	340	370	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	0.5 TO 1.0	45	1	2	TEST-IDENT	NA	
ABNORMAL	8	62	1	2	TEST-SIM	NA	
ACCIDENT	45	74	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	90	95	1	2	TEST-SIM	NA	
ABNORMAL	100	100	1	2	TEST-SIM	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	2.8E6		1	2	TEST-SIM	NA	
ACC GAMMA	3.1E7	1.285E8	1	2	TEST-SIM	YES	
NORM BETA	6.8E5		1	2	TEST-SIM	NA	
ACC BETA	6.3E8	1.0E9	1,4	2	TEST-SIM	YES	
NEUTRON	4.2E12		1,4	NA	AN + DATA	NA	NOTE 5
SPRAY	YES	24HR	1	2	TEST-SIM	NA	NOTE 3
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 1.290-5000E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. CES-2
4. CALCULATION # 12177-EQS-019
5. CALCULATION # 12177 A10.1-AA-6

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. REFERENCES 2.17 AND 2.24 IN REF. 2 OF THIS SCEW SHEET AND CONAX IPS-1054 DESCRIBE APPLICATION OF CHEMICAL SPRAY FOR 24 HOURS DURING LOCA TEST.
4. THE OUTBOARD SIDE OF THE PENETRATION IS QUALIFIED TO THE ENVIRONMENTAL CONDITIONS AT THE INBOARD SIDE, SINCE IT EMPLOYS THE SAME MATERIALS, EXCEPT VITON, AND THE QUALIFIED VALUES ENVELOP THE SPECIFIED VALUES. ADDITIONAL DATA ON VITON SEALS ARE AVAILABLE IN REF. 2.6, CONAX IPS-325, IN REF. 2 OF THIS SCEW SHEET.
5. NEUTRON DOSE AFTER CONVERSION TO GAMMA EQUIVALENT IS NEGLIGIBLE COMPARED WITH ACCIDENT DOSES OF GAMMA AND BETA. SEE REFERENCE 4.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E021PAF____ REV 0

22-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CES*Z06E
SPEC NO.: E021P

ZONE NO.: SC240135
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	100 DAYS	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/88	248	1	2	TEST-SIM	NA	NOTES 2,4
ABNORMAL	94	248	1	2	TEST-SIM	NA	
ACCIDENT	175	370	1	2	TEST-SIM	YES	NOTE 4
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25 IN WG	45	1	2	TEST-IDENT	NA	
ABNORMAL	-0.25 IN WG	62	1	2	TEST-SIM	NA	
ACCIDENT	2.8	74	1	2	TEST-SIM	YES	NOTE 4
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	95	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	NOTE 4
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	5.1E5		1	2	TEST-SIM	NA	
ACC GAMMA	5.3E7	1.285E8	1	2	TEST-SIM	YES	NOTE 4
NORM BETA	NA		1	NA	NA	NA	
ACC BETA	1.3E7		1,4	2	TEST-SIM	YES	NOTE 4
NEUTRON	NA		1	NA	NA		
SPRAY	NA	24 HR	NA	2	TEST-SIM	NA	NOTE 3
SUBMERGENCE	NA	NA	5	NA	NA	NA	

NOTE: SEE PAGE 1 FOR DOCUMENT REFERENCES AND NOTES.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E021PAG____ REV 0

22-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CES*Z07E
SPEC NO.: E021P
SYSTEM: CES-COMMON
ELECTRICAL SYSTEM

TYPE: (DESCRIPTION)
CONTROL ELECTRICAL
PENETRATION 600V

MANUFACTURER: CONAX

MODEL NO.: 10004-03

SAFETY FUNCTION: - - -
PROVIDE CONTINUITY OF
ELECTRICAL CIRCUITS AND
CONTAINMENT INTEGRITY
OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: PC250621
SUBMERGENCE: NA
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	100 DAYS	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	150/135	248	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	220	248	1	2	TEST-SIM	NA	
ACCIDENT	340	370	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	0.5 TO 1.0	45	1	2	TEST-IDENT	NA	
ABNORMAL	8	62	1	2	TEST-SIM	NA	
ACCIDENT	45	74	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	90	95	1	2	TEST-SIM	NA	
ABNORMAL	100	100	1	2	TEST-SIM	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	3.0E6		1	2	TEST-SIM	NA	
ACC GAMMA	2.5E7	1.285E8	1	2	TEST-SIM	YES	
NORM BETA	6.8E5		1	2	TEST-SIM	NA	
ACC BETA	6.3E8	1.0E9	1	2	TEST-SIM	YES	
NEUTRON	4.2E12		NA	NA	AN + DATA	NA	NOTE 5
SPRAY	YES	24HR	1	2	TEST-SIM	NA	NOTE 3
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 1.290-5000E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. CES-2
4. CALCULATION # 12177-EQS-019
5. CALCULATION # 12177-A10.1-AA-6

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. REFERENCES 2.17 AND 2.24 IN REF. 2 OF THIS SCEW SHEET AND CONAX IPS-1054 DESCRIBE APPLICATION OF CHEMICAL SPRAY FOR 24 HOURS DURING LOCA TEST.
4. THE OUTBOARD SIDE OF THE PENETRATION IS QUALIFIED TO THE ENVIRONMENTAL CONDITIONS AT THE INBOARD SIDE, SINCE IT EMPLOYS THE SAME MATERIALS, EXCEPT VITON, AND THE QUALIFIED VALUES ENVELOP THE SPECIFIED VALUES. ADDITIONAL DATA ON VITON SEALS ARE AVAILABLE IN REF. 2.6, CONAX IPS-325, IN REF. 2 OF THIS SCEW SHEET.
5. NEUTRON DOSE AFTER CONVERSION TO GAMMA EQUIVALENT IS NEGLIGIBLE COMPARED WITH ACCIDENT DOSES OF GAMMA AND BETA. SEE REFERENCE 4.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E021PAG____ REV 0

22-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CES*Z07E
SPEC NO.: E021P

ZONE NO.: SC240135
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	100 DAYS	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	104/88	248	1	2	TEST-SIM	NA	NOTES 2,4
ABNORMAL	94	248	1	2	TEST-SIM	NA	
ACCIDENT	175	370	1	2	TEST-SIM	YES	NOTE 4
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	-0.25 IN WG	45	1	2	TEST-IDENT	NA	
ABNORMAL	-0.25 IN WG	62	1	2	TEST-SIM	NA	
ACCIDENT	2.8	74	1	2	TEST-SIM	YES	NOTE 4
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORMAL	50	95	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	NOTE 4
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	NOTE 1
NORM GAMMA	5.1E5		1	2	TEST-SIM	NA	
ACC GAMMA	5.3E7	1.285E8	1	2	TEST-SIM	YES	NOTE 4
NORM BETA	NA		1	NA	NA	NA	
ACC BETA	1.3E7		1,4	2	TEST-SIM	YES	NOTE 4
NEUTRON	NA		1	NA	NA		
SPRAY	NA	24 HR	NA	2	TEST-SIM	NA	NOTE 3
SUBMERGENCE	NA	NA	5	NA	NA	NA	

NOTE: SEE PAGE 1 FOR DOCUMENT REFERENCES AND NOTES.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E021PAH____ REV 0

22-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CES*Z08E
SPEC NO.: E021P
SYSTEM: CES-COMMON
ELECTRICAL SYSTEM

TYPE: (DESCRIPTION)
CONTROL ELECTRICAL
PENETRATION 600V

MANUFACTURER: CONAX

MODEL NO.: NA

SAFETY FUNCTION: - - -
PROVIDE CONTINUITY OF
ELECTRICAL CIRCUITS AND
CONTAINMENT INTEGRITY
OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: PC240603
SUBMERGENCE: NA
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	100 DAYS	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	150/135	248	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	220	248	1	2	TEST-SIM	NA	
ACCIDENT	340	370	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	0.5 TO 1.0	45	1	2	TEST-IDENT	NA	
ABNORMAL	8	62	1	2	TEST-SIM	NA	
ACCIDENT	45	74	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	90	95	1	2	TEST-SIM	NA	
ABNORMAL	100	100	1	2	TEST-SIM	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	2.8E6		1	2	TEST-SIM	NA	
ACC GAMMA	3.1E7	1.285E8	1	2	TEST-SIM	YES	
NORM BETA	6.8E5		1	2	TEST-SIM	NA	
ACC BETA	6.3E8	1.0E9	1,4	2	TEST-SIM	YES	
NEUTRON	4.2E12		1,4	NA	AN + DATA	NA	NOTE 5
SPRAY	YES	24HR	1	2	TEST-SIM	NA	NOTE 3
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 1.290-5000E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. CES-2
4. CALCULATION # 12177-EQS-019
5. CALCULATION # 12177 A10.1-AA-6

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. REFERENCES 2.17 AND 2.24 IN REF. 2 OF THIS SCEW SHEET AND CONAX IPS-1054 DESCRIBE APPLICATION OF CHEMICAL SPRAY FOR 24 HOURS DURING LOCA TEST.
4. THE OUTBOARD SIDE OF THE PENETRATION IS QUALIFIED TO THE ENVIRONMENTAL CONDITIONS AT THE INBOARD SIDE, SINCE IT EMPLOYS THE SAME MATERIALS, EXCEPT VITON, AND THE QUALIFIED VALUES ENVELOP THE SPECIFIED VALUES. ADDITIONAL DATA ON VITON SEALS ARE AVAILABLE IN REF. 2.6, CONAX IPS-325, IN REF. 2 OF THIS SCEW SHEET.
5. NEUTRON DOSE AFTER CONVERSION TO GAMMA EQUIVALENT IS NEGLIGIBLE COMPARED WITH ACCIDENT DOSES OF GAMMA AND BETA. SEE REFERENCE 4.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E021PAH____ REV 0

22-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CES*Z08E
SPEC NO.: E021P

ZONE NO.: SC240135
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	100 DAYS	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/88	248	1	2	TEST-SIM	NA	NOTES 2,4
ABNORMAL	94	248	1	2	TEST-SIM	NA	
ACCIDENT	175	370	1	2	TEST-SIM	YES	NOTE 4
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25 IN WG	45	1	2	TEST-IDENT	NA	
ABNORMAL	-0.25 IN WG	62	1	2	TEST-SIM	NA	
ACCIDENT	2.8	74	1	2	TEST-SIM	YES	NOTE 4
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	NOTE 4
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	5.1E5		1	2	TEST-SIM	NA	
ACC GAMMA	5.3E7	1.285E8	1	2	TEST-SIM	YES	NOTE 4
NORM BETA	NA		1	NA	NA	NA	
ACC BETA	1.3E7		1,4	2	TEST-SIM	YES	NOTE 4
NEUTRON	NA		1	NA	NA		
SPRAY	NA	24 HR	NA	2	TEST-SIM	NA	NOTE 3
SUBMERGENCE	NA	NA	5	NA		NA	

NOTE: SEE PAGE 1 FOR DOCUMENT REFERENCES AND NOTES.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E021PAI____ REV 0

22-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CES*Z09E
SPEC NO.: E021P
SYSTEM: CES-COMMON
ELECTRICAL SYSTEM

TYPE: (DESCRIPTION)
LVP ELECTRICAL
PENETRATION 600V

MANUFACTURER: CONAX

MODEL NO.: 10005-01

SAFETY FUNCTION: - - -
PROVIDE CONTINUITY OF
ELECTRICAL CIRCUITS AND
CONTAINMENT INTEGRITY
OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: PC250621
SUBMERGENCE: NA
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	100 DAYS	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	150/135	248	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	220	248	1	2	TEST-SIM	NA	
ACCIDENT	340	370	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	0.5 TO 1.0	45	1	2	TEST-IDENT	NA	
ABNORMAL	8	62	1	2	TEST-SIM	NA	
ACCIDENT	45	74	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	90	95	1	2	TEST-SIM	NA	
ABNORMAL	100	100	1	2	TEST-SIM	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	3.0E6		1	2	TEST-SIM	NA	
ACC GAMMA	2.5E7	1.285E8	1	2	TEST-SIM	YES	
NORM BETA	6.8E5		1	2	TEST-SIM	NA	
ACC BETA	6.3E8	1.0E9	1,4	2	TEST-SIM	YES	
NEUTRON	4.2E12		1,4	NA	AN + DATA	NA	NOTE 5
SPRAY	YES	24HR	1	2	TEST-SIM	NA	NOTE 3
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 1.290-5000E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. CES-2
4. CALCULATION # 12177-EQS-019
5. CALCULATION # 12177-A10.1-AA-6

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. REFERENCES 2.17 AND 2.24 IN REF. 2 OF THIS SCEW SHEET AND CONAX IPS-1054 DESCRIBE APPLICATION OF CHEMICAL SPRAY FOR 24 HOURS DURING LOCA TEST.
4. THE OUTBOARD SIDE OF THE PENETRATION IS QUALIFIED TO THE ENVIRONMENTAL CONDITIONS AT THE INBOARD SIDE, SINCE IT EMPLOYS THE SAME MATERIALS, EXCEPT VITON, AND THE QUALIFIED VALUES ENVELOP THE SPECIFIED VALUES. ADDITIONAL DATA ON VITON SEALS ARE AVAILABLE IN REF. 2.6, CONAX IPS-325, IN REF. 2 OF THIS SCEW SHEET.
5. NEUTRON DOSE AFTER CONVERSION TO GAMMA EQUIVALENT IS NEGLIGIBLE COMPARED WITH ACCIDENT DOSES OF GAMMA AND BETA. SEE REFERENCE 4.

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CES*Z09E
SPEC NO.: E021P

ZONE NO.: SC240135
SUBMERGENCE:
SPRAY:

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/88	248	1	2	TEST-SIM	NA	NOTES 2,4
ABNORMAL	94	248	1	2	TEST-SIM	NA	
ACCIDENT	175	370	1	2	TEST-SIM	YES	NOTE 4
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25 IN WG	45	1	2	TEST-SIM	NA	
ABNORMAL	-0.25 IN WG	62	1	2	NA	NA	
ACCIDENT	2.8	74	1	2	TEST-SIM	YES	NOTE 4
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	NA	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	NOTE 4
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	5.1E5		1	2	TEST-SIM	NA	
ACC GAMMA	5.3E7	1.285E8	1	2	TEST-SIM	YES	NOTE 4
NORM BETA	NA		1	NA	NA	NA	
ACC BETA	1.3E7		1	2	TEST-SIM	YES	NOTE 4, REF. 4
NEUTRON	NA		1	NA	NA		
SPRAY	NA	24 HR	NA	2	TEST-SIM	NA	NOTE 3
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

NOTE: 1.SEE PAGE 1 FOR DOCUMENT REFERENCES AND NOTES.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E021PAJ____ REV 0

06-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CES*Z10E
SPEC NO.: E021P
SYSTEM: CES-COMMON
ELECTRICAL SYSTEM

TYPE: (DESCRIPTION)
CONTROL ELECTRICAL
PENETRATION 600V

MANUFACTURER: CONAX

MODEL NO.: 10004-04

SAFETY FUNCTION: - - -
PROVIDE CONTINUITY OF
ELECTRICAL CIRCUITS AND
CONTAINMENT INTEGRITY
OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: PC240603
SUBMERGENCE: NA
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	100 DAYS	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	150/135	248	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	220	248	1	2	TEST-SIM	NA	
ACCIDENT	340	370	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	0.5 TO 1.0	45	1	2	TEST-IDENT	NA	
ABNORMAL	8	62	1	2	TEST-SIM	NA	
ACCIDENT	45	74	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	90	95	1	2	TEST-SIM	NA	
ABNORMAL	100	100	1	2	TEST-SIM	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	2.8E6		1	2	TEST-SIM	NA	
ACC GAMMA	3.1E7	1.285E8	1	2	TEST-SIM	YES	
NORM BETA	6.8E5		1	2	TEST-SIM	NA	
ACC BETA	6.3E8	1.0E9	1,4	2	TEST-SIM	YES	
NEUTRON	4.2E12		1,4	NA	AN + DATA	NA	NOTE 5
SPRAY	YES	24HR	1	2	TEST-SIM	NA	NOTE 3
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 1.290-5000E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. CES-2
4. CALCULATION # 12177-EQS-019
5. CALCULATION # 12177-A10.1-AA-6

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. REFERENCES 2.17 AND 2.24 IN REF. 2 OF THIS SCEW SHEET AND CONAX IPS-1054 DESCRIBE APPLICATION OF CHEMICAL SPRAY FOR 24 HOURS DURING LOCA TEST.
4. THE OUTBOARD SIDE OF THE PENETRATION IS QUALIFIED TO THE ENVIRONMENTAL CONDITIONS AT THE INBOARD SIDE, SINCE IT EMPLOYS THE SAME MATERIALS, AND THE QUALIFIED VALUES ENVELOPE THE SPECIFIED VALUES. ADDITIONAL DATA ON VITON SEALS ARE AVAILABLE IN REF. 2.6, CONAX IPS-325, IN REF. 2 OF THIS SCEW SHEET.
5. NEUTRON DOSE AFTER CONVERSION TO GAMMA EQUIVALENT IS NEGLIGIBLE COMPARED WITH ACCIDENT DOSES OF GAMMA AND BETA. SEE REFERENCE 4.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E021PAJ____ REV 0

06-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CES*Z10E
SPEC NO.: E021P

ZONE NO.: SC240135
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE OR SPRAY

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	100 DAYS	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/88	248	1	2	TEST-SIM	NA	NOTES 2,4
ABNORMAL	94	248	1	2	TEST-SIM	NA	
ACCIDENT	175	370	1	2	TEST-SIM	YES	NOTE 4
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25 IN WG	45	1	2	TEST-IDENT	NA	
ABNORMAL	-0.25 IN WG	62	1	2	TEST-SIM	NA	
ACCIDENT	2.8	74	1	2	TEST-SIM	YES	NOTE 4
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	NOTE 4
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	5.1E5		1	2	TEST-SIM	NA	
ACC GAMMA	5.3E7	1.285E8	1	2	TEST-SIM	YES	NOTE 4
NORM BETA	NA		1	NA	NA	NA	
ACC BETA	1.3E7		1,4	2	TEST-SIM	YES	NOTE 4
NEUTRON	NA		1	NA	NA		
SPRAY	NA	24 HR	NA	2	TEST-SIM	NA	NOTE 3
SUBMERGENCE	NA	NA	5	NA	NA	NA	

NOTE: SEE PAGE 1 FOR DOCUMENT REFERENCES AND NOTES.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E021PAK____ REV 0

22-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CES*Z11E
SPEC NO.: E021P
SYSTEM: CES-COMMON
ELECTRICAL SYSTEM

TYPE: (DESCRIPTION)
INSTRUMENT ELECTRICAL
PENETRATION 300V

MANUFACTURER: CONAX

MODEL NO.: 10001-01

SAFETY FUNCTION: - - -
PROVIDE CONTINUITY OF
ELECTRICAL CIRCUITS AND
CONTAINMENT INTEGRITY
OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: PC250625
SUBMERGENCE: NA
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	100 DAYS	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	150/135	248	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	220	248	1	2	TEST-SIM	NA	
ACCIDENT	340	390	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	0.5 TO 1.0	45	1	2	TEST-IDENT	NA	
ABNORMAL	8	62	1	2	TEST-SIM	NA	
ACCIDENT	45	69	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	90	95	1	2	TEST-SIM	NA	
ABNORMAL	100	100	1	2	TEST-SIM	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	3.3E6		1	2	TEST-SIM	NA	
ACC GAMMA	2.5E7	1.10E8	1	2	TEST-SIM	YES	
NORM BETA	6.8E5		1	2	TEST-SIM	NA	
ACC BETA	6.3E8	1.0E9	1,4	2	TEST-SIM	YES	
NEUTRON	4.2E12		1,4	NA	AN + DATA	NA	NOTE 5
SPRAY	YES	24HR	1	2	TEST-SIM	NA	NOTE 3
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 1.290-5000E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. CES-2
4. CALCULATION # 12177-EQS-019
5. CALCULATION # 12177-A10.1-AA-6

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. REFERENCES 2.17 AND 2.24 IN REF. 2 OF THIS SCEW SHEET AND CONAX IPS-1054 DESCRIBE APPLICATION OF CHEMICAL SPRAY FOR 24 HOURS DURING LOCA TEST.
4. THE OUTBOARD SIDE OF THE PENETRATION IS QUALIFIED TO THE ENVIRONMENTAL CONDITIONS AT THE INBOARD SIDE, SINCE IT EMPLOYS THE SAME MATERIALS, EXCEPT VITON, AND THE QUALIFIED VALUES ENVELOP THE SPECIFIED VALUES. ADDITIONAL DATA ON VITON SEALS ARE AVAILABLE IN REF. 2.6, CONAX IPS-325, IN REF. 2 OF THIS SCEW SHEET.
5. NEUTRON DOSE AFTER CONVERSION TO GAMMA EQUIVALENT IS NEGLIGIBLE COMPARED WITH ACCIDENT DOSES OF GAMMA AND BETA. SEE REFERENCE 4.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E021PAK____ REV 0

22-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CES*Z11E
SPEC NO.: E021P

ZONE NO.: SC240135
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECT TO SUBMERGENCE AND SPRAY

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	100 DAYS	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/88	248	1	2	TEST-SIM	NA	NOTES 2,4
ABNORMAL	94	248	1	2	TEST-SIM	NA	
ACCIDENT	175	390	1	2	TEST-SIM	YES	NOTE 4
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25 IN WG	45	1	2	TEST-IDENT	NA	
ABNORMAL	-0.25 IN WG	62	1	2	TEST-SIM	NA	
ACCIDENT	2.8	69	1	2	TEST-SIM	YES	NOTE 4
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	TEST-SIM	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	NOTE 4
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	5.1E5		1	2	TEST-SIM	NA	
ACC GAMMA	5.3E7	1.10E8	1	2	TEST-SIM	YES	NOTE 4
NORM BETA	NA		1	NA	NA	NA	
ACC BETA	1.3E7		1,4	2	TEST-SIM	YES	NOTE 4
NEUTRON	NA		1	NA	NA		
SPRAY	NA	24 HR	NA	2	TEST-SIM	NA	NOTE 3
SUBMERGENCE	NA	NA	5	NA	NA	NA	

NOTE: SEE PAGE 1 FOR DOCUMENT REFERENCES AND NOTES.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E021PAL____ REV 0

22-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CES*Z12E
SPEC NO.: E021P
SYSTEM: CES-COMMON
ELECTRICAL SYSTEM

TYPE: (DESCRIPTION)
INSTRUMENT ELECTRICAL
PENETRATION 300V

MANUFACTURER: CONAX

MODEL NO.: NA

SAFETY FUNCTION: - - -
PROVIDE CONTINUITY OF
ELECTRICAL CIRCUITS AND
CONTAINMENT INTEGRITY
OP. CODE: A

ACCURACY - -
SPEC: NA
DEMO: NA

ZONE NO.: PC240607
SUBMERGENCE: NA
SPRAY: YES

DOCUMENTATION ACCEPTABILITY:
ACCEPTABLE TO NUREG 0588,CAT I

MAINT/SURVEILL - - -
REFERENCE: NA

QUALIFIED LIFE - - -
(YEARS): 40
REFERENCE: 2

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	100 DAYS	3	2	AN + DATA	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	150/135	248	1	2	TEST-SIM	NA	NOTE 2
ABNORMAL	220	248	1	2	TEST-SIM	NA	
ACCIDENT	340	390	1	2	TEST-SIM	YES	
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	0.5 TO 1.0	45	1	2	TEST-IDENT	NA	
ABNORMAL	8	62	1	2	TEST-SIM	NA	
ACCIDENT	45	69	1	2	TEST-SIM	YES	
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	90	95	1	2	TEST-SIM	NA	
ABNORMAL	100	100	1	2	TEST-SIM	NA	
ACCIDENT	STEAM	STEAM	1	2	TEST-SIM	NA	
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	1.6E7		1	2	TEST-SIM	NA	
ACC GAMMA	3.5E7	1.10E8	1	2	TEST-SIM	YES	
NORM BETA	6.8E5		1	2	TEST-SIM	NA	
ACC BETA	6.3E8	1.0E9	1,4	2	TEST-SIM	YES	
NEUTRON	4.2E12		1,4	NA	AN + DATA	NA	NOTE 5
SPRAY	YES	24HR	1	2	TEST-SIM	NA	NOTE 3
SUBMERGENCE	NA	NA	NA	NA	NA	NA	

DOCUMENT REFERENCE:

1. EQUIPMENT QUALIFICATION ENVIRONMENTAL DESIGN CRITERIA, EQEDC-1, REV 1, MAY 2, 1984.
2. VENDOR ENVIRONMENTAL QUALIFICATION REPORT, SDDF # IEEE 1.290-5000E
3. EQUIPMENT OPERABILITY TIME DATA SHEET: FILE NO. CES-2
4. CALCULATION # 12177-EQS-019
5. CALCULATION # 12177-A10.1-AA-6

NOTES:

1. FOR COMPLETE ENVIRONMENTAL CONDITIONS, SEE THE DOCUMENT REFERENCED.
2. NORMAL TEMPERATURES ARE SHOWN AS MAX DESIGN/AVERAGE.
3. REFERENCES 2.17 AND 2.24 IN REF. 2 OF THIS SCEW SHEET AND CONAX IPS-1054 DESCRIBE APPLICATION OF CHEMICAL SPRAY FOR 24 HOURS DURING LOCA TEST.
4. THE OUTBOARD SIDE OF THE PENETRATION IS QUALIFIED TO THE ENVIRONMENTAL CONDITIONS AT THE INBOARD SIDE, SINCE IT EMPLOYS THE SAME MATERIALS, EXCEPT VITON, AND THE QUALIFIED VALUES ENVELOP THE SPECIFIED VALUES. ADDITIONAL DATA ON VITON SEALS ARE AVAILABLE IN REF. 2.6, CONAX IPS-325, IN REF. 2 OF THIS SCEW SHEET.
5. NEUTRON DOSE AFTER CONVERSION TO GAMMA EQUIVALENT IS NEGLIGIBLE COMPARED WITH ACCIDENT DOSES OF GAMMA AND BETA. SEE REFERENCE 4.

NINE MILE POINT - UNIT 2
DOCKET NUMBER 50-410

SYSTEM COMPONENT EVALUATION WORK SHEET

QUAL REF #_E021PAL____ REV 0

22-Mar-85

EQUIPMENT DESCRIPTION

EQUIP NO.: 2CES*Z12E
SPEC NO.: E021P

ZONE NO.: SC240135
SUBMERGENCE:
SPRAY:

EQUIPMENT NOT SUBJECTED TO SUBMERGENCE OR SPRAY

ENVIRONMENTAL CONDITIONS AND QUALIFICATION

PARAMETER	SPECIFIED VALUE	QUALIFIED VALUE	DOCUMENT REFERENCE SPECIFIED	DOCUMENT REFERENCE QUALIFIED	QUAL METHOD	MARGIN DEMO	REMARKS
OP.TIME:	100 DAYS	100 DAYS	3	2	TEST-SIM	YES	
TEMP (F):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	104/88	248	1	2	TEST-SIM	NA	NOTES 2,4
ABNORMAL	94	248	1	2	TEST-SIM	NA	
ACCIDENT	175	390	1	2	TEST-SIM	YES	NOTE 4
PRESS(PSIG)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	-0.25 IN WG	45	1	2	TEST-SIM	NA	
ABNORMAL	-0.25 IN WG	62	1	2	NA	NA	
ACCIDENT	2.8	69	1	2	TEST-SIM	YES	NOTE 4
RH (%):	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORMAL	50	95	1	2	TEST-SIM	NA	
ABNORMAL	50	100	1	2	NA	NA	
ACCIDENT	100	100	1	2	TEST-SIM	NA	NOTE 4
RADIATION:	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - -	- NOTE 1
NORM GAMMA	5.1E5		1	2	TEST-SIM	NA	
ACC GAMMA	5.3E7	1.10E8	1	2	TEST-SIM	YES	NOTE 4
NORM BETA	NA		1	NA	NA	NA	
ACC BETA	1.3E7		1,4	2	TEST-SIM	YES	NOTE 4
NEUTRON	NA		1	NA	NA		
SPRAY	NA	24 HR	NA	2	TEST-SIM	NA	NOTE 3
SUBMERGENCE	NA	NA	5	NA	NA	NA	

NOTE: SEE PAGE 1 FOR DOCUMENT REFERENCES AND NOTES.