

Don K. Schopler  
Vice President  
312-269-6078

October 7, 1997  
Project No. 9583-100

**Docket No. 50-423**

Northeast Nuclear Energy Company  
Millstone Nuclear Power Station, Unit No. 3  
Independent Corrective Action Verification Program

United States Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, D.C. 20555

I have enclosed the following nineteen (19) discrepancy reports (DRs) identified during our review activities for the ICAVP. These DRs are being distributed in accordance with the Communications Protocol, PI-MP3-01.

DR No. DR-MP3-0149  
DR No. DR-MP3-0152  
DR No. DR-MP3-0184  
DR No. DR-MP3-0193  
DR No. DR-MP3-0201  
DR No. DR-MP3-0265  
DR No. DR-MP3-0267  
DR No. DR-MP3-0270  
DR No. DR-MP3-0272  
DR No. DR-MP3-0277

DR No. DR-MP3-0294  
DR No. DR-MP3-0298  
DR No. DR-MP3-0299  
DR No. DR-MP3-0310  
DR No. DR-MP3-0311  
DR No. DR-MP3-0314  
DR No. DR-MP3-0315  
DR No. DR-MP3-0329  
DR No. DR-MP3-0348

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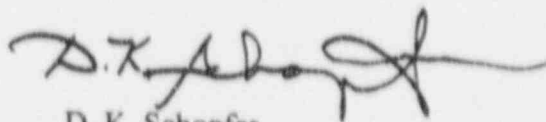
I have also enclosed the following eighteen (18) DRs that have been determined invalid. No action is required from Northeast Utilities for these eighteen DRs. The basis for their invalid determination is included on the document.

DR No. DR-MP3-0112  
DR No. DR-MP3-0158  
DR No. DR-MP3-0176  
DR No. DR-MP3-0192  
DR No. DR-MP3-0199  
DR No. DR-MP3-0203  
DR No. DR-MP3-0216  
DR No. DR-MP3-0219  
DR No. DR-MP3-0220

DR No. DR-MP3-0235  
DR No. DR-MP3-0237  
DR No. DR-MP3-0238  
DR No. DR-MP3-0257  
DR No. DR-MP3-0271  
DR No. DR-MP3-0278  
DR No. DR-MP3-0312  
DR No. DR-MP3-0319  
DR No. DR-MP3-0334

Please direct any questions to me at (312) 269-6078.

Yours very truly,



D. K. Schopfer  
Vice President and ICAVP Manager

DKS:spr  
Enclosures  
Copies:

E. Imbro (1/1) Deputy Director, ICAVP Oversight  
T. Concannon (1/1) Nuclear Energy Advisory Council  
J. Fougere (1/1) NU

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ICAVP  
Discrepancy Report

Review Group: System  
Review Element: System Design  
Discipline: Structural Design  
Discrepancy Type: Calculation  
System/Process: SWP  
NRC Significance level: 4

DR VALID

Potential Operability Issue

Yes  
 No

Date FAXed to NU:

Date Published:

Discrepancy: Small Bore Pipe Support Calculation Discrepancy

Description: We have reviewed Calculation no. NP(B)-1061-XC, Rev. 1. Based upon the results of the review, the following discrepancy has been noted:

Weld equations 4.1.1(a), 4.1.1(b), 4.1.2(a) & 4.1.2(b) contain multipliers (coefficients) for forces and moments for 3/4" NPS clamp plate. Calculation no. NP(B)-1071-XC, Rev. 1, pg. no. 81 has been referenced as a source of derivation for the multipliers (coefficients).

Review of Reference calculation has determined that this reference is not applicable to the aforementioned weld equations since it provides test data for pipe slip of 1/2" NPS clamp. Therefore, the adequacy of the weld equations cannot be verified.

	Valid	Invalid	Review Needed	Date
Initiator: Kjaic, N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/25/97
VT Lead: Neri, Anthony A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/25/97
VT Mgr: Schopfer, Don K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/30/97
IRC Chmn: Singh, Anand K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/2/97

Date:

INVALID:

Date:

RESOLUTION:

Previously Identified by NU?  Yes  No

	Acceptable	Not Acceptable	Review Needed	Date
Initiator: Kjaic, N	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Date:

SL Comments:

ICAVP  
Discrepancy Report

Review Group: System  
Review Element: System Design  
Discipline: Mechanical Design  
Discrepancy Type: Drawing  
System/Process: RSS  
NRC Significance level: 4

DR VALID

Potential Operability Issue

Yes  
 No

Date FAXed to NU:

Date Published:

**Discrepancy:** P&ID EM-112C-16 does not show cross ties on each pair of RSS pump suction lines.

**Description:** According to FSAR Table 6.2-62, a cross tie between each pair of containment recirculation pump suction lines drawing from opposite sides of the containment sump is required. The purpose of these cross ties is to allow either containment sump screen assembly to supply either or both recirculation pumps in the pair should one recirculation pump suction screen become clogged. However, P&ID EM-112C-16 fails to show a cross tie with remote manual valves.

	Valid	Invalid	Review Needed	Date
initiator: Feingold, D. J.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/18/97
VT Lead: Neri, Anthony A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/18/97
VT Mgr: Schopfer, Don K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/19/97
IRC Chmn: Singh, Anand K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/3/97

Date:

INVALID:

Date:

RESOLUTION:

Previously identified by NU?  Yes  No

	Acceptable	Not Acceptable	Review Needed	Date
Initiator: Feingold, D. J.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Date:

SL Comments:

ICAVP  
Discrepancy Report

Review Group: System  
 Review Element: System Design  
 Discipline: Mechanical Design  
 Discrepancy Type: Licensing Document  
 System/Process: QSS  
 NRC Significance level: 4

DR VALID  
 Potential Operability Issue  
 Yes  
 No  
 Date FAXed to NU:  
 Date Published:

**Discrepancy:** FSAR Tbl 6.2-62 is inconsistent with specification 2214.602-040 with respect to Quench Spray Pumps.

**Description:** FSAR Table 6.2-62 states that the casing of the quench spray pumps are designed for 450 degrees Fahrenheit and 250 psig pressure, with a 375 psig maximum test pressure. Quench spray pump design specification 25212-2214.602-040 identifies the casing of the quench spray pumps as having a design pressure and temperature of 200 psig and 150 degrees Fahrenheit, with a hydrostatic test pressure of 300 psig.

	Valid	Invalid	Review Needed	Date
Initiator: Feingold, D. J.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/22/97
VT Lead: Neri, Anthony A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/23/97
VT Mgr: Schopfer, Don K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/30/97
IRC Chmn: Singh, Anand K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/3/97

Date:

INVALID:

Date:

RESOLUTION:

Previously identified by NU?  Yes  No

	Acceptable	Not Acceptable	Review Needed	Date
Initiator: Feingold, D. J.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Date:

SL Comments:

ICAVP  
Discrepancy Report

Review Group: Programmatic  
 Review Element: Corrective Action Process  
 Discipline: Maintenance  
 Discrepancy Type: Corrective Action  
 System/Process: N/A  
 NRC Significance level: 3

DR VALID

Potential Operability Issue

Yes  
 No

Date FAXed to NU:

Date Published:

Discrepancy: NCR 393-035 Tripped accelerometer on fuel shipping container.

Description: The procedure in effect at the time this NCR was written was NEO 3.05, Rev. 2, dated 3/1/92. According to NEO 3.05, Section 6, "Instructions," Paragraph 6.1 "NCR Origination" Subparagraph 6.1.1 states "In the field, deficiencies are identified by trouble reports, automated work orders, PIRs surveillances, inspections, and audits." Additionally, Subparagraph 6.1.2 states "If the NCR is utilized for problems associated with services or programs, the disposition should include corrective action in accordance with NEO 2.18, "Corrective Action Request," when appropriate. In addition, 10 CFR part 71.5 Paragraph (a)(1)(vi) requires "Hazardous material employee training - 49 CFR part 172: Subpart H." 49 CFR part 172.704 "Training requirements" Paragraph (a)(3)(iii) requires "Methods and procedures for avoiding accidents, such as the proper procedures for handling packages containing hazardous materials." Since the problem occurred in the field while removing the fuel bundle from the shipping container and there was the potential to have damaged the fuel cladding which potentially could affect plant safety or the ability of the plant equipment to operate properly, this issue should have been dispositioned under the Problem Identification Report (PIR) or Corrective Action Request (NEO 2.18) process.

	Valid	Invalid	Review Needed	Date
Initiator: Dombrowski, Jim	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/29/97
VT Lead: Ryan, Thomas J	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/29/97
VT Mgr: Schopfer, Don K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/30/97
IRC Chmn: Singh, Anand K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/4/97

Date:

INVALID:

Date:

RESOLUTION:

Previously identified by NU?  Yes  No

	Acceptable	Not Acceptable	Review Needed	Date
Initiator: Dombrowski, Jim	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Lead: Ryan, Thomas J	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Date:

SL Comments:

Review Group: Programmatic  
Review Element: Change Process  
Discipline: Other  
Discrepancy Type: Installation Implementation  
System/Process: N/A  
NRC Significance level: 3

DR VALID

Potential Operability Issue

Yes  
 No

Date FAXed to NU:

Date Published:

Discrepancy: Inappropriate Commercial Grade Procurement

Description: In commercial grade dedication packages and associated documentation which were reviewed, two examples were found of inappropriate classification of procurement documents as commercial grade.

1. Commercial Grade Dedication Form (CGDF) # MP3-92-017 was written to dedicate air flow measurement services. In Section 5 of this form, the vendor was required to qualify test personnel to ANSI N45.2.6-1978. This is an inappropriate use of commercial grade dedication by NU.

The purchase order for this service was classified as commercial grade which does not meet 10 CFR 21 as it existed in 1992 or as it exists today because the procurement contained specification requirements unique to facilities or activities licensed as described in 10 CFR 21.3(a)(4)(a-1) and it imposes part of a quality assurance program which complies with 10 CFR 50, Appendix B.

10 CFR 21.3(a)(4)(a-1) in 1992 defined a commercial grade item in part as an item that is not subject to design or specification requirements that are unique to facilities or activities licensed pursuant to 10 CFR Parts 30, 40, 50, 60, 61, 70, 71 or 72. 10 CFR 21.3(1)(ii) today defines a basic component in part as items designed and manufactured under a quality assurance program which complies with 10 CFR 50, Appendix B. 10 CFR 21.3 (3) today states: "In all cases, basic component includes safety-related design, analysis, inspection, testing, fabrication, replacement of parts, or consulting services that are associated with the component hardware whether these services are performed by the component supplier or others."

ANSI N45.2.6-1978 is unique to activities licensed pursuant to the regulations listed in 10 CFR 21.3(a)(4)(a-1). It is endorsed with comments by NRC Regulatory Guide 1.58. In addition, personnel qualified to this Regulatory Guide are used to perform testing governed by Criteria II and XI of 10 CFR 50, Appendix B. Thus, the air flow measurement services discussed above should have been procured as a basic component ("nuclear grade").

2. CGDF # MP3-0019 (?) - the number is difficult to read - signed July 25, 1989 was for a belt drive for a Foxboro panel recorder. The attached standard purchase order notes in this package has "Title 10, Chapter 1, Code of Federal Regulations, Part 21, Reporting of Defects and Noncompliance, applies to this

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Discrepancy Report

procurement" circled. Thus, the purchase order was basic component and no basis is provided for NU to perform the commercial grade dedication.

	Valid	Invalid	Review Needed	Date
Initiator: Sheppard, R. P.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/24/97
VT Lead: Ryan, Thomas J	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/24/97
VT Mgr: Schopfer, Don K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/25/97
IRC Chmn: Singh, Anand K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/4/97

Date:

INVALID:

Date:

RESOLUTION:

Previously identified by NU?  Yes  No

	Acceptable	Not Acceptable	Review Needed	Date
Initiator: Sheppard, R. P.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Lead: Ryan, Thomas J	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Date:

SL Comments:

Review Group: System

Review Element: System Design

Discipline: Piping Design

Discrepancy Type: Calculation

System/Process: N/A

NRC Significance level: 3

DR VALID

Potential Operability Issue

Yes

No

Date FAXed to NU:

Date Published:

**Discrepancy:** Discrepancy in calculated natural frequency for free standing vents/drains and associated test data

**Description:** In the process of reviewing the following documents,

- (i) Design and Installation of Small Bore Piping, NETM-24, Rev. 3
- (ii) Interoffice Memorandum, Review of Calculation 12179-NP(B)-692-XD, From RFHainkinson to GPMilley, February 2, 1984
- (iii) Calculation 12176-NP(F)-QSS-3-V56, Rev. 2
- (iv) Calculation 12179-NP(B)-4061-ZC, Rev. 1, 9/24/85

we noted the following discrepancy:

#### Background:

According to (i): In the evaluation of vent/drain configurations, applicable seismic accelerations at the point of attachment (to header piping or equipment) are the higher of the values from computer analysis results (of the header piping) or the zero period acceleration (ZPA). ZPA values are obtained from the applicable ARS curve for the building and elevation where vent/drain is located. These seismic acceleration values, multiplied by a factor of 1.5, should be applied to calculate seismic reaction and stresses.

Implicit in the above procedure is the assumption that the vent/drain configuration is rigid relative to the piping, as indicated by the following excerpts from (ii):

- "If the vent/drain is rigid in comparison with the piping response, the vent/drain will experience the maximum piping response. If the vent/drain is not rigid in comparison with the piping response, the vent/drain will experience an amplification of the maximum piping response".
- "Piping is excited by the building response through its supporting media, and as the free standing vent/drain is not attached to the building there can be no defensible justification for using building response to qualify the vent/drain".

In some instances, seismic accelerations at the point of vent/drain attachment to the header piping, as obtained from NUPIPE computer analysis, are lower than the building floor ZPA, see for example (iii). The calculated accelerations are lower than the ZPA because a sufficient number of rigid body modes have not been properly accounted for in the header piping response. For these cases use of the higher ZPA values is required.

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Discrepancy Report

The requirement that free standing vent/drain configurations be rigid relative to the piping is not explicitly stated in the design criteria document (ii). However, all vent/drain calculations in the review sample demonstrate that the natural frequency of the vent/drain configuration is  $> 33\text{Hz}$ . This is performed by comparing the span lengths of the vent/drain configuration with maximum allowable span lengths to insure that frequency  $> 33\text{Hz}$ , as provided in (iv).

The allowable span length calculation (iv) also contains frequency data from tests performed on a small sample of as-built vent/drain configurations at the Millstone -3 site. The test results show that some of the tested configurations have natural frequencies as low as 7Hz. As there is no mention to the contrary, the span length criteria of (iv) is presumably satisfied for these configurations, and therefore their calculated frequency is  $> 33\text{Hz}$ . No interpretation of test results is provided in (iv).

Discrepancy:

The requirement that free standing vent/drain configurations be rigid relative to the piping, i.e. natural frequency  $> 33\text{Hz}$ , is not explicitly stated in the design criteria document (ii).

Natural frequency of vent/drain configurations is shown by calculation to be  $> 33\text{Hz}$ . However, test results contradict the calculated results for several configurations. The discrepancy has not been addressed in (iv).

	Valid	Invalid	Review Needed	Date
Initiator: Prakash, A.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/23/97
VT Lead: Neri, Anthony A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/23/97
VT Mgr: Schopfer, Don K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/30/97
IRC Chmn: Singh, Anand K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/2/97

Date:

INVALID:

Date:

RESOLUTION:

Previously Identified by NI?  Yes  No

	Acceptable	Not Acceptable	Review Needed	Date
Initiator: Prakash, A.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Date:

SL Comments:

# ICAVP Discrepancy Report

Review Group: System  
 Review Element: System Design  
 Discipline: Structural Design  
 Discrepancy Type: Calculation  
 System/Process: N/A  
 NRC Significance level: 3

DR VALID

Potential Operability Issue

Yes  
 No

Date FAXed to NU:

Date Published:

**Discrepancy:** Design Criteria Discrepancy

**Description:** Criteria Document no. NETM-45, Rev. 1, titled: "Pipe Support Design Criteria" does not address the impact of thermal stresses on the pipe support auxiliary steel. Thermal growth is significant in all cases where support configuration includes auxiliary steel with rigid support points at both ends that preclude movement and relaxation of thermal stresses.

	Valid	Invalid	Review Needed	Date
Initiator: Klac, N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/18/97
VT Lead: Nerl, Anthony A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/23/97
VT Mgr: Schopfer, Don K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/30/97
IRC Chmn: Singh, Anand K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/2/97

Date:

INVALID:

Date:

RESOLUTION:

Previously Identified by NU?  Yes  No

	Acceptable	Not Acceptable	Review Needed	Date
Initiator: Klac, N	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Lead: Nerl, Anthony A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Date:

SL Comments:

# ICAVP Discrepancy Report

Review Group: System  
 Review Element: System Design  
 Discipline: Structural Design  
 Discrepancy Type: Calculation  
 System/Process: SWP  
 NRC Significance level: 4

DR VAL:    
 Potential Operability Issue  
 Yes  
 No  
 Date FAXed to NU:  
 Date Published:

**Discrepancy:** Pipe Support Calculation Discrepancy

**Description:** We have reviewed Pipe Support Calculation no. NP(F)-Z019R-766-H001, Rev.6 ,Dated 4/20/93.

Based upon the results of that review we have noted the following discrepancy:

On page 12, the maximum normal stress should be 19,514 psi (not 18,140 psi).

	Valid	Invalid	Review Needed	Date
Initiator: Kjaic, N	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/18/97
VT Lead: Neri, Anthony A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/23/97
VT Mgr: Schopfer, Don K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/30/97
IRC Chmn: Singh, Anand K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/2/97

Date:

INVALID:

Date:

RESOLUTION:

Previously identified by NU?  Yes  No

	Acceptable	Not Acceptable	Review Needed	Date
Initiator: Kjaic, N	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Date:

SL Comments:

ICAVP  
Discrepancy Report

Review Group: System  
Review Element: System Design  
Discipline: Piping Design  
Discrepancy Type: Calculation  
System/Process: N/A  
NRC Significance level: 4

DR VALID

Potential Operability Issue

Yes

No

Date FAXed to NU:

Date Published:

**Discrepancy:** Discrepancy associated with the implementation of Code Case N-411

**Description:** In the process of reviewing the following documents,

- (i) FSAR Section 3.7B.3.1.2 Seismic Analysis Methods - Piping Systems
- (ii) Pipe Stress Analysis Criteria Document, NETM-44, Revision 2
- (iii) NRC Regulatory Guide 1.84: Design and Fabrication Code Case Acceptability - ASME Section III Division 1
- (iv) NUREG/CR-3526 Impact of Changes in Damping and Spectrum Peak Broadening on the Seismic Response of Piping Systems
- (v) NRC Regulatory Guide 1.60: Design Response Spectra for Seismic Design of Nuclear Power Plants
- (vi) NRC Regulatory Guide 1.61: Damping Values for Seismic Design of Nuclear Power Plants
- (vii) NRC Regulatory Guide 1.92: Combining Modal Response and Spatial Components in Seismic Response Analysis, Rev. 1
- (viii) NRC Regulatory Guide 1.122: Development of Floor Design Response Spectra for Seismic Design of Floor-Supported Equipment or Components, Rev. 1
- (ix) FSAR Table - 1.8.1 NRC Regulatory Guides
- (x) NU Letters: Dated October, 10, 1984 and November 9, 1984
- (xi) NRC Letter: Dated November 16, 1984

According to (i): Damping values used for piping are 0.5 percent for OBE and 1 percent for SSE except that increased damping values may be applied on an as-needed basis for final stress reconciliation in accordance with ASME Code Case N-411.

According to (ii): ASME III Code Case N-411 is to be used on a limited basis for stress reconciliation as specified by the lead engineer. Also when these alternate damping values are used for developing pipe support loads, additional load cases must be specified to account for any applicable secondary type loads occurring during the plant faulted condition. All affected pipe supports shall be evaluated with these additional specified loads but the pipe stress criteria will remain unchanged. Where alternate damping values are used exclusively for evaluating equipment loading, valve acceleration or local IWA stress, the additional load cases mentioned above need not be considered by supports or stress.

According to (iii): Code Case N-411 is acceptable subject to the following conditions in addition to those conditions specified in the Code Case: (1) The Code Case damping should be used

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completely and consistently, if used at all. (2) The damping values specified may be used only in those analyses in which current seismic spectra and procedures have been employed. Such use should be limited only to response spectra analyses (similar to that used in the study supporting its acceptance - Reference NUREG/CR-3526).

The study supporting the code case acceptance (iv) addresses sources of conservatism in the seismic analysis procedure which is based on a consistent utilization of the methodology delineated in NRC Regulatory Guides 1.60, 1.61, 1.92 and 1.122 [(v) to (viii)]. The objective of the study was to determine the impact of proposed changes to RG 1.61 damping values (Code Case N-411) and the spectrum peak broadening procedure of RG 1.122 on the level of conservatism remaining in the analysis. Conservatism is introduced in the analysis process in numerous ways, among them, due to the broad-band seismic input (RG 1.60) and modal combination methods (RG 1.92).

According to (ix): Millstone-3 is not required to, and does not, consistently comply with Regulatory Guides 1.60, 1.61, 1.92 and 1.122.

As identified in (x) and (xi): Millstone-3 requested and was granted NRC approval for the use of Code Case N-411. This approval forms the basis for its application in (i) and (ii).

Discrepancy:

The 'additional load cases' that 'must be specified to account for any applicable secondary type loads' as referred to in (ii), have not been defined. Also, it is not clear whether the 'additional load cases' have to be considered for evaluating equipment loading, valve acceleration and/or IWA stress.

Code case N-411 is implemented in large bore pipe stress analysis calculations in certain cases exclusively for evaluating equipment loading, valve acceleration or local IWA stress, and in others to reduce seismic stresses in the pipe. The code case is also implemented in small bore pipe stress analysis calculations to evaluate piping and supports. No 'additional load cases' have been specified in these calculations.

The use of Code Case N-411 is justified for reducing levels of conservatism inherent in pipe stress analyses which are based on consistent use of the methodology delineated in Regulatory Guides 1.60, 1.61, 1.92 and 1.122. The seismic design basis for Millstone-3 is not required to, and does not, comply with these Regulatory Guides. Therefore, the Millstone Piping Design Criteria (ii) does not fulfill the conditions set forth in Regulatory Guide 1.84.

Initiator: Prakash, A.	Valid <input checked="" type="checkbox"/>	Invalid <input type="checkbox"/>	Review Needed <input type="checkbox"/>	Date 9/19/97
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ICAVP  
Discrepancy Report

VT Lead: Neri, Anthony A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/23/97
VT Mgr: Schopfer, Don K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/30/97
IRC Chmn: Singh, Anand K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/2/97

Date:

INVALID:

Date:

RESOLUTION:

Previously identified by NU?  Yes  No

	Acceptable	Not Acceptable	Review Needed	Date
Initiator: Prakash, A.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Date:				
SL Comments:				

ICAVP  
Discrepancy Report

Review Group: System  
Review Element: System Design  
Discipline: Piping Design  
Discrepancy Type: Calculation  
System/Process: SWP  
NRC Significance level: 3

DR VALID

Potential Operability Issue

Yes  
 No

Date FAXed to NU:

Date Published:

**Discrepancy:** Installation of vent lines on large bore elbow fittings is inconsistent with design criteria

**Description:** In the process of reviewing the following documents,

- (1) Calculation NO.12179-NP(B)-SWP-33-V810, Rev 2,10/11/96
- (2) Calculation NO.12179-NP(B)-SWP-33-V811, Rev 2,10/11/96
- (3) Calculation NO.12179-NP(B)-X1908 Rev 3, CCN #1,10/11/96
- (4) NETM-24, Design and installation of small bore piping, Rev 3

we noted the following discrepancy:

**Background:**

As shown in (1) and (2), vents are installed on large bore elbow fittings on lines 3-SWP-008-74-3 (1) and 3-SWP-008-73-3 (2).

According to the large bore pipe stress analysis (3), these vent lines are shown on the analysis work sketch, and the vent lines are decoupled from the large bore pipe header. The effect of these vents on elbow fittings is not addressed in the pipe stress analysis calculation (3).

**Discrepancy:**

According to NETM-24 (4), installation of vents/drains on elbow fittings, bends, tees and mitred joints is not permitted. Nevertheless there are several vents that are installed on large bore elbow fittings.

**Note:**

These comments are based on a review of a sample of vent/drain support requirement calculations for the service water system. The same comments may also be applicable to other vent/drain calculations.

	Valid	Invalid	Review Needed	Date
Initiator: Ramesh, D. Patel.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/22/97
VT Lead: Neri, Anthony A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/23/97
VT Mgr: Schopfer, Don K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/1/97
IRC Chmn: Singh, Anand K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/2/97

Date:

INVALID:

# ICAVP Discrepancy Report

Date:

RESOLUTION:

Previously identified by NU?  Yes  No

	Acceptable	Not Acceptable	Review Needed	Date
Initiator: Ramesh, D. Patel.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Date:				
SL Comments:				

ICAVP  
Discrepancy Report

Review Group: System  
Review Element: System Design  
Discipline: Piping Design  
Discrepancy Type: Calculation  
System/Process: SWP  
NRC Significance level: 4

DR VALID

Potential Operability Issue

Yes  
 No

Date FAXed to NU:

Date Published:

Discrepancy: Lack of documentation for qualification of tie rods

Description: In the process of reviewing the following documents.

- (i) Pipe Stress Calculation 12179-NP(B)-X1900 Rev. 3 CCN's 1 to 3
- (ii) Pipe Stress Calculation 12179-NP(B)-X53900, Rev. 5
- (iii) Pipe Stress Calculation 12179-NP(B)-X53901, Rev. 6, CCN's 1 to 3

we noted the following discrepancy:

Background:

According to (i): Expansion Joint Data Sheet for Joint Mark No. 3SWP\*E1B, at Nodes 501 - 511, shows the tie rod load for the worst case Thermal condition to be 191,716 lbs. The actual tie rod load should be 19,716 lbs, which is the load at NP 511, the attachment point between the expansion joint and Strainer 3SWP\*STR1B (Inlet). Tie Rod loads for all other load cases correspond to the load at the Strainer inlet NP 511.

Discrepancy:

The thermal condition load for expansion joint (3SWP\*E1B) tie rods is numerically incorrect.

Tie rod loads are documented in pipe stress calculations, but no documentation is provided for the qualification of tie rods for these loads. This is a generic discrepancy applicable to all the cases reviewed where expansion joints with tie rods are used, see for example (i to iii).

	Valid	Invalid	Review Needed	Date
Initiator: Prakash, A.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/23/97
VT Lead: Neri, Anthony A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/24/97
VT Mgr: Schopfer, Don K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/1/97
IRC Chmn: Singh, Anand K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/2/97

Date:

INVALID:

Date:

RESOLUTION:

Previously Identified by NU?  Yes  No

ICAVP  
Discrepancy Report

	Acceptable	Not Acceptable	Review Needed	Date
Initiator: (none)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Date:				
SL Comments:				

ICAVP  
Discrepancy Report

Review Group: Configuration  
Review Element: System Design  
Discipline: Piping Design  
Discrepancy Type: Drawing  
System/Process: SWP  
NRC Significance level: 4

DR VALID

Potential Operability Issue

Yes  
 No

Date FAXed to NU:

Date Published:

**Discrepancy:** Upper Tier to Lower Tier Drawing Review for SWP in Control Bldg.

**Description:** The following drawing discrepancies were found in reviewing the P&ID with the as built isometrics:

1. On isometric CI-SWP-P2A/B Sht 1 Rev 3 drain lines with valves 3SWP-V984 and 3SWP-V985 are shown to be capped but not on P&ID EM-133D Rev 24 (M-3 and M-7). These valves are designated as safety related per the P&ID and should be designated on the isometric drawing with a (\*).

2. On CI-SWP-226 Sht 2 Rev 8 a 3 in. welded plug is shown on line 3-SWP-006-262-3 and not on P&ID EM-133D Rev 24. The isometric also has a call out for continuation on drawing CI-SWP-368 for this plugged line that is no longer needed.

3. On isometric CI-SWP-30S Sht 5 Rev 9 safety related components 3SWP\*TE35B and 3SWP\*EJ10B per P&ID EM-133D Rev 24 (L-2) should be designated with a (\*). Also continuation line 3-SWP-750-398-3 should be 3-SWP-750-410-3 per P&ID EM-133D Rev 24 (L-2).

4. On isometric CI-SWP-31A Sht 4 Rev 7 safety related components 3SWP\*EJ10D and 3SWP\*FIS36B per P&ID EM-133D Rev 24(K-2) should be designated with a (\*).

5. On CB-639508 Sht 3 Rev 10 line 3-SWP-002-416-3 should be 3-SWP-002-288-3 per P&ID EM-133D Rev 24 (K-5).

	Valid	Invalid	Review Needed	Date
Initiator: Read, J. W.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/23/97
VT Lead: Neri, Anthony A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/23/97
VT Mgr: Schopfer, Don K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/1/97
IRC Chmn: Singh, Anand K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/2/97

Date:

INVALID:

Date:

RESOLUTION:

Previously Identified by NU?  Yes  No

	Acceptable	Not Acceptable	Review Needed	Date
Initiator: (none)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Northeast Utilities  
Millstone Unit 3

ICAVP  
Discrepancy Report

DR No. DR-MP3-0298

IRC Cfmn: Singh, Anand K



Date:

SL Comments:

# ICAVP Discrepancy Report

Review Group: Configuration  
 Review Element: System Installation  
 Discipline: Piping Design  
 Discrepancy Type: Installation Implementation  
 System/Process: SWP  
 NRC Significance level: 4

DR VALID

Potential Operability Issue

Yes  
 No

Date FAXed to NU:

Date Published:

**Discrepancy:** Walkdown Discrepancies for SWP in Control Building

**Description:** The following discrepancy items were found during the walkdown of the piping and mechanical equipment of the SWP in the Control Building:

1. Lines 3-SWP-006-32-3 and 3-SWP-006-35-3 are inside the 48 in. cover pipe but not insulated as required by spec. SP-ME-691.
2. Line 3-SWP-006-398-3 is insulated but not required to be insulated per spec. SP-ME-691.
3. Expansion joint 3SWP\*EJ10C has no NU component tag.
4. Line 3-SWP-002-314-3 is missing insulation as is required by spec. SP-ME-691.
5. Lines 3-SWP-006-263-3 and 3-SWP-006-50-3 have insulation missing after the lines enter the 48 in. cover pipe. Insulation is required by spec. SP-ME-691.
6. Line 3-SWP-006-397-3 is insulated but not required to be insulated per spec SP-ME-691.
7. Valve 3SWP\*TV35B (\*V47) has incorrect serial number per vendor drawing 12179-2472-110.185-312 Rev D. Per GRITS, no DCNs are shown to be outstanding against the vendor drawing.
8. Line 3-SWP-002-315-3 is not insulated as required by spec SP-ME-691.

The following material condition item was found during the walkdown of the piping and mechanical equipment of the SWP in the Control Building:

1. Pump 3SWP\*P2A seal shows leakage.

	Valid	Invalid	Review Needed	Date
Initiator: Read, J. W.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/25/97
VT Lead: Neri, Anthony A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/25/97
VT Mgr: Schopfer, Don K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/1/97
IRC Chmn: Singh, Anand K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/2/97

Date:

INVALID:

Date:

RESOLUTION:

RESOLUTION:

Previously Identified by NU?  Yes  No

	Acceptable	Not Acceptable	Review Needed	Date
Initiator: (none)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Date:				
SL Comments:				

# ICAVP Discrepancy Report

Review Group: Configuration  
 Review Element: System Design  
 Discipline: Piping Design  
 Discrepancy Type: Drawing  
 System/Process: SWP  
 NRC Significance level: 4

DR VALID

Potential Operability Issue

Yes  
 No

Date FAXed to NU:

Date Published:

**Discrepancy:** Upper Tier to Lower Tier Drawing Review for Hydrogen Recombiner Room

**Description:** The following drawing discrepancies were found in reviewing the P&ID with the as built Isometrics:

1. On CP-402052 Sht 1 Rev 4 line 3-SWP-750-278-4 is shown on P&ID EM-133B Rev 34 as 3-SWP-001-278-4. Also continuation drawing CP-319757 should be CP-319758. Lines 3-SWP-750-255-3 and 3-SWP-750-277-4 should be called out to have 1.5 in. Type J insulation per spec SP-ME-691.

	Valid	Invalid	Review Needed	Date
Initiator: Read, J. W.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/23/97
VT Lead: Neri, Anthony A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/23/97
VT Mgr: Schopfer, Don K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/1/97
IRC Chmn: Singh, Anand K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/2/97

Date:

INVALID:

Date:

RESOLUTION:

Previously Identified by NU?  Yes  No

	Acceptable	Not Acceptable	Review Needed	Date
Initiator: (none)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Date:

SL Comments:

ICAVP  
Discrepancy Report

Review Group: Configuration  
 Review Element: System Installation  
 Discipline: Piping Design  
 Discrepancy Type: Installation Implementation  
 System/Process: SWP  
 NRC Significance level: 4

DR VALID

Potential Operability Issue

Yes  
 No

Date FAXed to NU:

Date Published:

**Discrepancy:** Walkdown Discrepancies for SWP in the Hydrogen Recombiner Room

**Description:** The following discrepancy items were found during the walkdown of the piping and mechanical equipment of the SWP in the Hydrogen Recombiner Room:

1. Line 3-SWP-750-245-3 is not insulated as required by spec. SP-ME-691.

2. Lines 3-SWP-750-255-3 and 3-SWP-750-277-4 are not insulated as required by spec. SP-ME-691.

The following material condition item was found during the walkdown of the piping and mechanical equipment of the SWP in the Hydrogen Recombiner Room:

1. Valve 3SWP\*V840 packing shows leakage.

	Valid	Invalid	Review Needed	Date
Initiator: Read, J. W.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/23/97
VT Lead: Neri, Anthony A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/23/97
VT Mgr: Schopfer, Don K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/1/97
IRC Chmn: Singh, Anand K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/2/97

Date:

INVALID:

Date:

RESOLUTION:

Previously Identified by NU?  Yes  No

	Acceptable	Not Acceptable	Review Needed	Date
Initiator: (none)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Date:

SL Comments:

Review Group: Programmatic  
Review Element: Corrective Action Process  
Discipline: Other  
Discrepancy Type: Corrective Action  
System/Process: N/A  
NRC Significance level: 3

DR VALID

Potential Operability Issue

Yes  
 No

Date FAXed to NU:

Date Published:

**Discrepancy:** Inconsistent Initiation of Adverse Condition Reports (ACRs)/  
Condition Reports (CRs)

**Description:** During our review of the corrective actions taken for conditions adverse to quality found during the Unit 3 Configuration Management Plan Project, we noted an inconsistent initiation of ACRs or CRs for conditions which had been originally identified on Unresolved Item Reports (UIRs). Note 1.3.10 of Instruction PI-14, Revision 0, titled "Configuration Management Plan Project Process Administration Instruction" states: "A CR will be generated to address issues of a repetitive or programmatic nature as determined by EP (Expert Panel). RP-4 'Corrective Action Program,' provides guidance on specific issues potentially affecting personnel safety, plant safety, or the proper operation of plant equipment that must be considered for a CR and brought to the attention of the Shift Manager (SM). Where specific questions arise as to the need for a CR, EP will refer to RP-4 for additional guidance."

The following examples of situations when a CR should be initiated are given in Attachment 3 to RP-4, Revision 4:

**Programmatic Issues**

· Engineering programmatic issues such as MOV issues and Fire Protection issues

**Regulatory Issues**

· Inaccuracies in information previously reported to the NRC.

Based on this guidance, many conditions reported on UIRs should have been evaluated by the ACR/CR process. The ACR and CR processes have trend coding and, based on the Significance Level, causal evaluation and action to prevent recurrence which will be important to maintaining plant configuration in the future.

The following four UIRs are examples where CRs should have been initiated:

UIR 2281

This UIR expressed the concern that there were safety and environmental screenings for procedure changes which have not been performed. In addition, the delay of the screenings which were specifically identified until after startup has not been justified.

UIR 1907

## ICAVP Discrepancy Report

This UIR identified penetrations that were not being drained in violation of the UFSAR. The licensing and potential safety implications should be addressed.

**JIR 1945**

This UIR stated that no surveillance procedure was found for testing valve interlocks which are described in the UFSAR. This is a programmatic issue.

**UIR 1539**

This UIR identifies a concern that the UFSAR commitments regarding environmental qualification of components in mild environments are not being addressed in the Electrical Environmental Qualification Program. This is a programmatic issue.

Finally, the following statement has been made in some ACRs and CRs: "ACR initiated by management directive for all startup related issues." This directive has not been consistently applied as evidenced by the fact that many UIRs are identified as startup related without an ACR or CR having been generated.

A clearly defined and consistently applied criteria is lacking for the generation of CRs from the UIR process. Alternately, there appears to be no process for trending or taking action to prevent recurrence for items identified in UIRs which do not result in generation of CRs.

	Valid	Invalid	Review Needed	Date
Initiator: Wrona, S. P.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/24/97
VT Lead: Ryan, Thomas J	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/24/97
VT Mgr: Schopfer, Don K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/1/97
IRC Chmn: Singh, Anand K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/2/97

Date:

INVALID:

Date:

RESOLUTION:

Previously Identified by NU?  Yes  No

	Acceptable	Not Acceptable	Review Needed	Date
Initiator: (none)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Lead: Ryan, Thomas J	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Date:

SL Comments:

ICAVP  
Discrepancy Report

Review Group: System  
Review Element: System Design  
Discipline: Mechanical Design  
Discrepancy Type: Component Data  
System/Process: HVX  
NRC Significance level: 3

DR VALID

Potential Operability Issue

Yes  
 No

Date FAXed to NU:

Date Published:

Discrepancy: SLCRS HEPA Filter Airflow Rating and Pressure Drop

Description: During review of the component data for the Supplementary Leak Collection and Release System (SLCRS) filter units, 3HVR\*FLT3A/3B, a discrepancy regarding the design airflow and clean pressure drop for the HEPA filters was identified.

Specification 2170.430-065 specifies an airflow of 8,500 cfm for the SLCRS filter unit.

Vendor drawing 2170.430-065-022 shows an airflow of 8,500 cfm for the SLCRS filter unit and that there are 6 HEPA filters in the unit.

FSAR Section 6.2.3.3 and Table 6.2-63 states that the SLCRS filter unit airflow is 8,500 cfm

FSAR Table 6.5-1 states that the SLCRS filter unit airflow is 9,500 cfm and that there are 6 HEPA filters in the unit.

Piping & Instrumentation Diagram EM-148E shows a 9,500 cfm airflow for the SLCRS filter units

FSAR Table 1.8-1, Regulatory Guide 1.52, paragraph C.3.d clarification states that the HEPA filters will be subjected to velocities recommended by the HEPA filter manufacturer which exceeds ANSI N509-1976 Section 4.3.1 requirements. Specification 2170.430-065 identifies a 1500 cfm rated airflow for the HEPA filter which corresponds to a 9,000 cfm maximum airflow for the unit.

FSAR Table 6.2-63 states that the clean HEPA filter pressure drop is 1.0 inches of water gauge (iwg). Specification 2170.430-065 and vendor drawing 2170.430-065-022 state that the clean pressure drop is 1.15 iwg. At the 9,500 cfm airflow shown on the P&ID the clean pressure drop will be higher due to increase in airflow above the rating conditions for the filter.

	Valid	Invalid	Review Needed	Date
Initiator: Stout, M. D.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/24/97
VT Lead: Neri, Anthony A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/25/97
VT Mgr: Schopfer, Don K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/1/97
IRC Chmn: Singh, Anand K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/3/97

Date:

INVALID:

ICAVP  
Discrepancy Report

Date:

RESOLUTION:

Previously Identified by NU?  Yes  No

	Acceptable	Not Acceptable	Review Needed	Date
Initiator: (none)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Date:				
SL Comments:				

# ICAVP Discrepancy Report

Review Group: Programmatic  
 Review Element: Change Process  
 Discipline: Other  
 Discrepancy Type: Procedure Implementation  
 System/Process: N/A  
 NRC Significance level: 4

DR VALID  
 Potential Operability Issue  
 Yes  
 No  
 Date FAXed to NU:  
 Date Published:

**Discrepancy:** Final Safety Analysis Report Change Request (FSARCR) technical review documentation

**Description:** The following requirements apply to technical reviews:

A. Section 5.2.15 of ANSI N18.7, which is a commitment in NUQAP Topical Report, requires in part, that measures assure that documents are reviewed for adequacy by appropriate personnel.

B. Nuclear Group Procedure (NGP 4.03 Revs. 8 & 9) requires the PRD and additional Reviewers to complete and sign block 14. (Refer to Section 6.4, Task 10 of the NGP).

1. Contrary to the above, two persons signed in block 14 for FSARCR 97-MP3-30 whose names are different than the designated PRD Reviewer. It is not evident whether these persons individually or collectively have the required qualifications/authority to sign for the designated PRD Reviewer.

2. Contrary to the above, one person whose name is designated as a PRD Reviewer on FSARCR 97-MP3-68 did not sign. It is not clear that the person that did sign (who was also specified as a PRD Reviewer) has the required qualifications/authorization to sign for the person who did not sign.

	Valid	Invalid	Review Needed	Date
Initiator: Navarro, Mark	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/29/97
VT Lead: Ryan, Thomas J	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9/29/97
VT Mgr: Schopfer, Don K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/1/97
IRC Chmn: Singh, Anand K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/2/97

Date:

INVALID:

Date:

RESOLUTION:

Previously Identified by NU?  Yes  No

	Acceptable	Not Acceptable	Review Needed	Date
Initiator: (none)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Lead: Ryan, Thomas J	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Date:

SL Comments:

# ICAVP Discrepancy Report

Review Group: Programmatic  
 Review Element: Change Process  
 Discipline: Other  
 Discrepancy Type: Calculation  
 System/Process: SWP  
 NRC Significance: *Low*

DR VALID

Potential Operability Issue

Yes  
 No

Date FAXed to NU:

Date Published:

**Discrepancy:** Improper Preparation of Calculation Change Notice # 2 for Calculation No. 90-069-1130-M3, Rev. 0

**Description:** Calculation Change Notice (CCN) #2's "Reason for Change" block states "50.54 (f) Review determined that Calculation No. 90-069-1130-M3, Rev. 0 supersedes Calculation 12179-(P)-1148, Rev. 1 and NM-037-HVK". CCN #2's "Description of Change & Technical Justification" block states "Calculation No. 90-069-1130-M3, Rev. 0 supersedes Calc. 12179-(P)-1148, Rev. 1" and provides a justification also. Neither the "Reason for Change" block nor the "Description of Change & Technical Justification" block state the change(s) to be implemented into the Calculation No. 90-069-1130-M3, Rev. 0.

This appears to be an improper application of the calculation process as there is no change to the Calculation No. 90-069-1130-M3, Rev. 0 stated in CCN # 2. [The calculations which are superseded should be superseded through DCM Chapter 5, Section 6, "Superseding or Voiding Calculations" process]

	Valid	Invalid	Review Needed	Date
Initiator: Caruso, A.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/1/97
VT Lead: Ryan, Thomas J	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/1/97
VT Mgr: Schopfer, Don K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/1/97
IRC Chmn: Singh, Anand K	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/4/97

Date:

INVALID:

Date:

RESOLUTION:

Previously identified by NU?  Yes  No

	Acceptable	Not Acceptable	Review Needed	Date
Initiator: (none)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Lead: Ryan, Thomas J	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Date:

SL Comments:

ICAVP  
Discrepancy Report

Review Group: Programmatic  
 Review Element: Corrective Action Process  
 Discipline: I & C Design  
 Discrepancy Type: Licensing Document  
 System/Process: DGX  
 NRC Significance level: 4

DR INVALID  
 Potential Operability Issue  
 Yes  
 No  
 Date FAXed to NU:  
 Date Published:

Discrepancy: Inadequate response to Diesel Generator annunciator issues.

Description: ACR # 012875, M3-96-0246, & 0247 address issues which potentially InOp the Diesel Generator's Annunciator. While a potential fault in the local annunciator does not InOp the diesel generator, the ACR's responses do not address the commitment in the UFSAR concerning common trouble annunciation in the Main Control Room. The MCR's trouble annunciators are fed from the local annunciator's retransmitter; therefore, InOp'ing the local annunciator means that the Control Room Annunciator is also InOp'd.

	Valid	Invalid	Review Needed	Date
Initiator: Dombrowski, Jim	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10/1/97
VT Lead: Ryan, Thomas J	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10/1/97
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Date: 10/1/97

INVALID: The Corrective Action Plan recommends the non-Cat 1E annunciator inputs be removed, thus returning the annunciator's circuitry to compliance with the UFSAR; therefore, the Cat 1 annunciator functions will not be degraded. Although the EDG annunciators are powered and associated with safety related EDG electrical equipment, the annunciators do not in themselves perform a safety function; therefore, this condition does not result in the loss of any safety function. Annunciator inputs are provided from instrument and/or relay contacts; therefore a fault (short circuit or ground) will only cause an alarm. Since the annunciator electronics are not qualified isolators, a fault through the electronics would only result in a loss of the annunciator. No EDG control circuitry or control functions would be affected.

Date:

RESOLUTION:

Previously Identified by NU?  Yes  No

	Acceptable	Not Acceptable	Review Needed	Date
Initiator: Dombrowski, Jim	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Lead: Ryan, Thomas J	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Date:

SL Comments:

# ICAVP Discrepancy Report

Review Group: System  
 Review Element: System Design  
 Discipline: Mechanical Design  
 Discrepancy Type: Licensing Document  
 System/Process: RSS  
 NRC Significance level: 4

DR INVALID

Potential Operability Issue

Yes  
 No

Date FAXed to NU:

Date Published: 10/10/97

**Discrepancy:** Design Basis Summary Document 3DBS-NSS-003 Section 4.1.30 has a typographical error.

**Description:** Design Basis Summary Document 3DBS-NSS-003 Section 4.1.30 has a typographical error.

Section 4.1.30 states the following system requirement:

" Valves 3QSS\*MOV8837A,B and 3QSS\*MOV8838A,B shall provide process signals for valve open/close permissives to ECCS valves 3SIL\*MOV8812A<B; 3SIL\*MOV8804A<B; 3RHS\*MOV8701A,B; and 3 RHS\*MOV8701A,B."

The system requirement should be stated as follows:

" Valves 3QSS\*MOV8837A,B and 3QSS\*MOV8838A,B shall provide process signals for valve open/close permissives to ECCS valves 3SIL\*MOV8812A<B; 3SIL\*MOV8804A<B; 3RHS\*MOV8701A,B; and 3 RHS\*MOV8702A,B."

	Valid	Invalid	Review Needed	Date
Initiator: Feingrid, D. J.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10/3/97
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10/7/97
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9/12/97
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Date: 9/12/97

**INVALID:** This DR is considered invalid. It is an obvious typographical error which would not cause any design or operations impact.

Date:

**RESOLUTION:**

Previously Identified by NU?  Yes  No

	Acceptable	Not Acceptable	Review Needed	Date
Initiator: Feingold, D. J.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Date:				
SL Comments:				

ICAVP  
Discrepancy Report

Review Group: Operations & Maintenance and Testing  
Review Element: Operating Procedure  
Discipline: Operations  
Discrepancy Type: O & M & T Procedure  
System/Process: SWP  
NRC Significance level: 4

DR INVALID

Potential Operability Issue

Yes  
 No

Date FAXed to NU:

Date Published:

**Discrepancy:** LER commitments for Service Water Booster Pump (SWBP's) apparently not implemented.

**Description:** LER 96-005 dated 4-19-96 documented that the SWBP's auto-start feature was inadvertently disabled from 1990 until a review was conducted during an NRC inspection in 1996. The discrepancies identified were that the corrective actions noted in the LER were apparently not implemented.

During construction of Unit 3, it was noted that both outlet isolation valves of the service water to the Motor Control Center and Rod Control Area Air Conditioning Unit (MCC/RCA ACU) were in the same fire zone. As a result, the decision was made to change the isolation valves to a normally open configuration. The original control scheme caused the outlet isolation valve to open on a high temperature in the ACU duct or on a Loss of Power (LOP) signal and send a start signal to the SWBP's.

To preclude the SWBP's from running all the time due to the change to a normally open outlet isolation valves, a Bypass Jumper (BJ) was installed in May 1990 to defeat the pump start on an open outlet isolation valve and to allow a direct pump start on an LOP signal.

As a result of an NRC review in March 1996 it was determined that the jumper had failed to incorporate the auto pump start feature on high temperature in the MCC/RCA ACU duct. LER 96-005 was written to report this condition as being outside the design basis. The deletion of the high temperature auto start function was not addressed in the BJ process or by a safety evaluation.

The identified corrective actions in LER 96-005 included starting and continuously running the SWBP's and revising operating procedures to address appropriate alarm response to high temperatures in the MCC/RCA ACU pending completion of a modification to remove the BJ..

The following discrepancies were noted:

1) A procedure requiring continuous SWBP operation could not be found. Further, procedure OP 3326 Rev. 18, Service water System, states that in restoration of the service water system upon completion of a LOP, verify that an air conditioning unit and the reactor plant chilled water system is restored, then stop both booster pumps. This action is in direct conflict with the commitment in LER 96-005.

ICAVP  
Discrepancy Report

2) Changes to the appropriate alarm response procedure addressing High Temperature in the ACU could not be found.

	Valid	Invalid	Review Needed	Date
Initiator: Spear, R.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10/1/97
VT Lead: Bass, Ken	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10/6/97
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Date: 10/1/97

INVALID: Additional documentation was received on 9/29/97 which confirmed that the Bypass Jumper (BJ) had been removed and the modification/PDCR closed out.

A review of the modification will be completed as part of the design change verification.

Date:

RESOLUTION:

Previously identified by NU?  Yes  No

	Acceptable	Not Acceptable	Review Needed	Date
Initiator: Spear, R.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Lead: Bass, Ken	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Date:

SL Comments:

ICAVP  
Discrepancy Report

Review Group: Accident Mitigation  
 Review Element: Test Procedure  
 Discipline: I & C Design  
 Discrepancy Type: Procedure Implementation  
 System/Process: N/A  
 NRC Significance level: 4

DR INVALID

Potential Operability Issue

Yes  
 No

Date FAXed to NU:

Date Published:

Discrepancy: Discrepancy between Surveillance Procedure and Technical Specifications Manual Reference

Description: SP 3858 Rev.4, Accumulator Boron Concentration, Section 4.1 and Section 6.2 refers to "Technical Specification 4.5.1.1.b". The correct Technical Specifications Manual reference should be "Technical Specification 4.5.1.b".

	Valid	Invalid	Review Needed	Date
Initiator: Zwyrner, John	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10/2/97
VT Lead: Raheja, Raj D	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10/3/97
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Date: 9/25/97

INVALID: This DR is considered invalid. The condition cited is an obvious typographical error. There is no paragraph 4.5.1.1.b, and there is possibility of inappropriate action resulting from this typo.

Date:

RESOLUTION:

Previously identified by NU?  Yes  No

	Acceptable	Not Acceptable	Review Needed	Date
Initiator: Zwyrner, John	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Lead: Raheja, Raj D	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Date:

SL Comments:

# ICAVP Discrepancy Report

Review Group: System  
 Review Element: System Design  
 Discipline: Mechanical Design  
 Discrepancy Type: Licensing Document  
 System/Process: RSS  
 NRC Significance level: 3

DR INVALID

Potential Operability Issue  
 Yes  
 No

Date FAXed to NU:

Date Published:

**Discrepancy:** Technical Specification 3.4.6.2.2 is inconsistent with P&ID EM-112C.

**Description:** Technical Specification 3.4.6.2.2 states that there shall be two independent Containment Recirculation Spray systems. P&ID EM-112C shows two independent systems up to the common recirculation spray headers. The headers are not independent of each other.

FSAR Section 6.2.2.2 identifies the Containment Recirculation subsystems to be exclusive of the RSS spray headers. However, the design requirement specifies two independent recirculation spray systems, not subsystems. Therefore a discrepancy exists between Technical Specification 3.4.6.2.2 and P&ID EM-112C.

	Valid	Invalid	Review Needed	Date
Initiator: Feingold, D. J.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10/3/97
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9/15/97
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Date: 9/15/97

**INVALID:** This DR is considered invalid since the discrepancy is an editorial error which would not lead to a misinterpretation of the Technical Specifications.

Date:

RESOLUTION:

Previously Identified by NU?  Yes  No

	Acceptable	Not Acceptable	Review Needed	Date
Initiator: Feingold, D. J.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Date:

SL Comments:

ICAVP  
Discrepancy Report

Review Group: System  
Review Element: System Design  
Discipline: I & C Design  
Discrepancy Type: Drawing  
System/Process: QSS  
NRC Significance level: 4

DR INVALID

Potential Operability issue

Yes  
 No

Date FAXed to NU:

Date Published: 10/10/97

Discrepancy: Drawing Discrepancy - LSK-27-12A,F

Description: For Pump 3QSS\*P3B on Logic Diagram 27-12A, Rev 13, pull-to-lock prevents sequenced safeguard signal from initiating pump start; for Pump 3QSS\*P3A on Logic Diagram 27-12F, Rev13, pull-to-lock concurrent with local select permits sequenced safeguard signal to initiate pump start. Notation adjacent to "Pull-To-Lock" Control Action for Pump P3B says "(Note 5)". Note 5 on LSK-27-12A says "Outputs similar to Train A shown on LSK-27-12F (28463 sh 6)".

	Valid	Invalid	Review Needed	Date
Initiator: Pinelas, H.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9/27/97
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10/7/97
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Date: 9/27/97

INVALID: A review of Elementary Wiring Diagrams ESK-5DG, Elem Diag 4.16 kv (3QSS\*P3A) Quench Spray Pump P3A and ESK-5DH, Elem Diag 4.16 kv (3QSS\*P3B) Quench Spray Pump P3B shows that the wiring on the Elementary Wiring Diagrams are different from each other, however, they agree with the corresponding Logic Diagrams. Therefore, there is no discrepancy.

Date:

RESOLUTION:

Previously Identified by NU?  Yes  No

	Acceptable	Not Acceptable	Review Needed	Date
Initiator: Pinelas, H.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Date:

SL Comments:

**iCAVP**  
**Discrepancy Report**

Review Group: System  
Review Element: System Design  
Discipline: I & C Design  
Discrepancy Type: Drawing  
System/Process: QSS  
NPC Significance level: 4

DR INVALID

Potential Operability Issue

Yes  
 No

Date FAXed to NU:

Date Published: 10/10/97

Discrepancy: Drawing Discrepancy - Schematics 3QSS-932, 933

Description: Cable 3RPS3NX901 on 3QSS-932, Rev 2 is shown unshielded.

Shielding is required to provide noise suppression for low signal level instrumentation cables, maintain consistency with other cables of similar functions and utilize good engineering practice.

	Valid	Invalid	Review Needed	Date
Initiator: Pineas, H.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10/3/97
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10/7/97
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Date: 10/3/97

**INVALID:** Cable contains multiple conductors. Individual pairs of conductors are not shielded. The cable has an overall shield which is grounded to provide noise suppression. The drawings are correct, therefore there is no discrepancy.

Date:

RESOLUTION:

Previously identified by NU?  Yes  No

	Acceptable	Not Acceptable	Review Needed	Date
Initiator: Pineas, H.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Date:

SL Comments:

# ICAVP Discrepancy Report

Review Group: System  
Review Element: System Design  
Discipline: I & C Design  
Discrepancy Type: Drawing  
System/Process: RSS  
NRC Significance level: 4

DR INVALID  
Potential Operability Issue  
 Yes  
 No  
Date FAXed to NU:  
Date Published: 10/10/97

Discrepancy: Drawing Discrepancy - LSK-27-11D

Description: 3RSS\*LIT22A and 3RSS\*LIT22B should be input to 3RSS\*LR22.

	Valid	Invalid	Review Needed	Date
Initiator: Pineles, H.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10/3/97
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10/7/97
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Date: 10/3/97

INVALID: Further review indicates that only LIT22A should be input to 3RSS\*LR22; LIT22B is input to 3RSS\*LIT22B as depicted in the drawing. Therefore there is no discrepancy.

Date:

RESOLUTION:

Previously Identified by NU?  Yes  No

	Acceptable	Not Acceptable	Review Needed	Date
Initiator: Pineles, H.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Date:

SL Comments:

ICAVP  
Discrepancy Report

Review Group: System  
Review Element: System Design  
Discipline: I & C Design  
Discrepancy Type: Drawing  
System/Process: RSS  
NRC Significance level: 4

DR INVALID

Potential Operability Issue

Yes  
 No

Date FAXed to NU:

Date Published:

Discrepancy: Drawing Discrepancy - LSK-27-11F,G

Description: Conditions "3RSS\*MOV20A Molded Case Circuit Breaker Open" and "3RSS\*MOV23A Molded Case Circuit Breaker Open" on Logic Diagram LSK-27-11F, Rev 9 are also shown on Logic Diagram LSK-27-11G, Rev 9.

	Valid	Invalid	Review Needed	Date
Initiator: Pineas, H.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9/26/97
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10/1/97
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Date: 9/26/97

INVALID: The identified condition is a typographical error which cannot lead to misinterpretation of the drawing.

Date:

RESOLUTION:

Previously identified by NU?  Yes  No

	Acceptable	Not Acceptable	Review Needed	Date
Initiator: Pineas, H.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Date:

SL Comments:

ICAVP  
Discrepancy Report

Review Group: System  
Review Element: System Design  
Discipline: I & C Design  
Discrepancy Type: Drawing  
System/Process: SWP  
NRC Significance level: 4

DR INVALID  
Potential Operability Issue  
 Yes  
 No  
Date FAXed to NU:  
Date Published: 10/10/97

Discrepancy: Drawing Discrepancy - Various Schematics

Description: Shields on the following cables appear to require grc unding:

Cable Number	Drawing(s)
3IHC1NX912	3SWP-026A, Rev 3, 026B, Rev 3
3IHC1NX907	3SWP-037A, Rev 4, 041B-1, Rev 2
3IHC1NX908	3SWP-037B, Rev 4
3IHC1NX906	3SWP-041A-1, Rev 2
3IHC1NX909 (Pairs 10-16)	3SWP-043A, Rev 4, 043B, Rev 4, 059A-1, Rev 7, 059B-1, Rev 6, 059C-1, Rev 8
3CESNNX304	3SWP-059A-1, Rev 7, 059C-1, Rev 8
3IHC1NX910 (Pairs 1-5)	3SWP-059A-1, Rev 7, 059B-1, Rev 6, 059C-1, Rev 8, 059D-1, Rev 6
3IHCVNX902	3SWP-118A, Rev 2
3IHCVNX906	3SWP-118B, Rev 2

This is to provide noise suppression for low signal level instrumentation cables, maintain consistency with other cables of similar function and utilize good engineering practice.

	Valid	Invalid	Review Needed	Date
Initiator: Pinelas, H.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10/3/97
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10/7/97
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Date: 10/3/97

INVALID: Cables contain multiple conductors. Individual pairs of conductors are not shielded. Each cable has an overall shield which is grounded to provide noise suppression. The drawings are correct, therefore there are no discrepancies.

Date:

RESOLUTION:

Previously Identified by NU?  Yes  No

	Acceptable	Not Acceptable	Review Needed	Date
Initiator: Pinelas, H.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Date:

SL Comments:

ICAVP  
Discrepancy Report

Review Group: System  
Review Element: System Design  
Discipline: I & C Design  
Discrepancy Type: Drawing  
System/Process: SWP  
NRC Significance level: 4

DR INVALID

Potential Operability Issue

Yes  
 No

Date FAXed to NU:

Date Published:

Discrepancy: Drawing Discrepancy - Schematics 3SWP-059A-1,2, 059B-1,2

Description: Shields on the following cables appear to be unnecessary:

Cable Number	Drawing(s)
3SWPNNC752	3SWP-059A-1, Rev 7, 059A-2, Rev 2
3SWPNNC753	3SWP-059A-2, Rev 2, 059B-1, Rev 6
3SWPNNC754	3SWP-059C-1, Rev 8, 059C-2, Rev 2
3SWPNNC755	3SWP-059C-2, Rev 2, 059D-1, Rev 6
3SWPNNC756	3SWP-059A-2, Rev 2
3SWPNNC757	3SWP-059A-2, Rev 2
3SWPNNC758	3SWP-059C-2, Rev 2
3SWPNNC759	3SWP-059C-2, Rev 2
3SWPNNC760	3SWP-059A-2, Rev 2, 059B-2, Rev 2
3SWPNNC761	3SWP-059A-2, Rev 2, 059B-2, Rev 2
3SWPNNC762	3SWP-059C-2, Rev 2, 059D-1, Rev 6
3SWPNNC763	3SWP-059C-2, Rev 2, 059D-2, Rev 2

	Valid	Invalid	Review Needed	Date
Initiator: Pineas, H.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9/26/97
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10/3/97
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Date: 9/26/97

INVALID: These cables carry digital signals only (contact open or contact close). The signal voltage is 125 Vdc. Although not necessary, the shields would not have any effect on loop operation.

Date:

RESOLUTION:

Previously Identified by NU?  Yes  No

	Acceptable	Not Acceptable	Review Needed	Date
Initiator: Pineas, H.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Date:

SL Comments:

ICAVP  
Discrepancy Report

Review Group: System  
Review Element: System Design  
Discipline: I & C Design  
Discrepancy Type: Drawing  
System/Process: SWP  
NRC Significance level: 4

DR INVALID

Potential Operability Issue

Yes  
 No

Date FAXed to NU:

Date Published:

Discrepancy: Drawing Discrepancy - Schematics 3SWP-059C-1.2, 059D-1.2

Description: The following cables should not be shielded:

3CESNNX30F  
3SWPNNC753  
3SWPNNC754  
3SWPNNC758  
3SWPNNC759  
3SWPNNC762  
3SWPNNC763

	Valid	Invalid	Review Needed	Date
Initiator: Pineas, H.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9/26/97
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10/3/97
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Date: 9/19/97

INVALID: Discrepancy Report is invalid because information previously listed has been added to Discrepancy Report No. DR-MP3-0237.

Date:

RESOLUTION:

Previously Identified by NU?  Yes  No

	Acceptable	Not Acceptable	Review Needed	Date
Initiator: Pineas, H.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Date:

SL Comments:

ICAVP  
Discrepancy Report

Review Group: System  
Review Element: System Design  
Discipline: I & C Design  
Discrepancy Type: Drawing  
System/Process: RSS  
NRC Significance level: 4

DR INVALID

Potential Operability Issue

Yes  
 No

Date FAXed to NU:

Date Published: 10/10/97

Discrepancy: Drawing Discrepancy - Schematics 3RSS-022A-1,2, 022B-1,2, 043A-D

Description: Shields on the following cables appear to require grounding:

Cable Number	Drawing(s)
3CESNNX920	3RSS-022A-2, Rev 3
3CESNNX910	3RSS-022B-2, Rev 3
3IHC2NX946	3RSS-043A, Rev 2, 043B, Rev 2, 043C, Rev 2, 043D, Rev 2

This is to provide noise suppression for low signal level instrumentation cables, maintain consistency with other cables of similar functions and utilize good engineering practice.

	Valid	Invalid	Review Needed	Date
Initiator: Pineas, H.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10/3/97
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10/7/97
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Date: 10/3/97

INVALID: Cables contain multiple conductors. Individual pairs of conductors are not shielded. Each cable has an overall shield which is grounded to provide noise suppression. The drawings are correct, therefore there are no discrepancies.

Date:

RESOLUTION:

Previously Identified by NU?  Yes  No

	Acceptable	Not Acceptable	Review Needed	Date
Initiator: Pineas, H.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Date:

SL Comments:

ICAVP  
Discrepancy Report

Review Group: System  
Review Element: System Design  
Discipline: I & C Design  
Discrepancy Type: Drawing  
System/Process: QSS  
NRC Significance level: 4

DR INVALID  
Potential Operability Issue  
 Yes  
 No  
Date FAXed to NU:  
Date Published: 10/10/97

Discrepancy: Drawing Discrepancy - Schematics 3QSS-035-1,2  
Description: Shields on cable 3CESNNX131 on 3QSS-035-1, Rev 3 and cables 3CESNNX250 and 3IHC2NX901 on 3QSSW-035-2, Rev 2 are not grounded.

This is to provide noise suppression for low signal level instrumentation cables, maintain consistency with other cables of similar functions and utilize good engineering practice.

	Valid	Invalid	Review Needed	Date
Initiator: Pineas, H.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10/3/97
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10/7/97
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Date: 10/3/97

INVALID: Cables contain multiple conductors. Individual pairs of conductors are not shielded. Each cable has an overall shield which is grounded to provide noise suppression. The drawings are correct, therefore there are no discrepancies.

Date:

RESOLUTION:

Previously Identified by NU?  Yes  No

	Acceptable	Not Acceptable	Review Needed	Date
Initiator: Pineas, H.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Date:

SL Comments:

ICAVP  
Discrepancy Report

Review Group: System	DR INVALID
Review Element: System Design	Potential Operability Issue
Discipline: I & C Design	<input type="radio"/> Yes
Discrepancy Type: Drawing	<input checked="" type="radio"/> No
System/Process: SWP	Date FAXed to NU:
NRC Significance level: 4	Date Published:

Discrepancy: Drawing Discrepancy - Various Schematics  
Description: The following cables appear to require shielding:

Cable Number	Drawing(s)
3SWPANX237	3SWP-137A, Rev 4
3SWPANX238	3SWP-137A, Rev 4
3SWPBNX237	3SWP-137B, Rev 3
3SWPBNX238	3SWP-137B, Rev 3

This is to provide noise suppression for low signal level instrumentation cables, maintain consistency with other cables of similar functions and utilize good engineering practice.

	Valid	Invalid	Review Needed	Date
Initiator: Pineas, H.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10/3/97
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10/7/97
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Date: 10/3/97

INVALID: These cables are supplied by the vendor with BNC connectors. The shield is tied to the connector and is grounded at the panel for noise suppression. The drawings are correct, therefore there are no discrepancies.

Date:

RESOLUTION:

Previously identified by NU?  Yes  No

	Acceptable	Not Acceptable	Review Needed	Date
Initiator: Pineas, H.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Date:

SL Comments:

ICAVP  
Discrepancy Report

Review Group: System  
Review Element: System Design  
Discipline: Mechanical Design  
Discrepancy Type: Calculation  
System/Process: RSS  
NRC Significance level: 4

DR INVALID  
Potential Operability issue  
 Yes  
 No  
Date FAXed to NU:  
Date Published:

Discrepancy: Minimum Wall Calculations References Missing

Description: Minimum Wall Calculations MW(F)-127 and MW(F)-132 indicate that the reference for the pipe class and the design temperature and pressure is a flow diagram (FSK). The reference section of the calculation does not provide an FSK number.

The FSK drawing series was superseded by the piping diagrams and the line list. Calculation MW(F)-132 has design input consistent with these documents.

Calculation MW(F)-127 is not consistent with these documents. However, the pressure used is greater than the actual design pressure and the temperature is only slightly lower than the design temperature.

	Valid	Invalid	Review Needed	Date
Initiator: Langel, D.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10/4/97
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10/3/97
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Date: 10/3/97

INVALID: The calculations did provide a specific reference for the FSKs. However, the FSKs were superseded by the piping diagrams and the line list. A review of these documents indicates that the calculation results are consistent with the input or conservative. Therefore, this is not a discrepancy.

Date:

RESOLUTION:

Previously Identified by NU?  Yes  No

	Acceptable	Not Acceptable	Review Needed	Date
Initiator: (none)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Date:

SL Comments:

ICAVP  
Discrepancy Report

Review Group: Operations & Maintenance and Testing  
Review Element: Modification Installation  
Discipline: Other  
Discrepancy Type: Corrective Action  
System/Process: SWP  
NRC Significance level: 4

DR INVALID

Potential Operability Issue

Yes  
 No

Date FAXed to NU:

Date Published:

Discrepancy: Documentation of modification status inconsistent..

Description: LER 96-005 dated 4/19/96 documents that in 1990 the function of the service water booster pump to auto start on high temperature in the MCC and Rod Control Area Air Conditioning Unit (ACU) duct was inadvertently bypassed. LER 96-005 committed to removing the bypass jumper. Modification, PDCR No. MP3-94-099 Titled: Remove 3SWP-\*P3A/B Start Signal from 3SWP\*MOV 130A/B, was designed to perform the removal of the BJ.

During construction of Unit 3, it was noted that both trains of service water to the MCC/RCA ACU outlet isolation valves were in the same fire zone. Due to common failure considerations, the decision was made to change the isolation valves to a normally open configuration. The original control scheme caused the outlet isolation valve to open on a high temperature in the ACU duct or an a Loss of Power (LOP) signal and send a start signal to the Service water booster pumps.

To preclude the booster pumps from running all the time due to the open outlet isolation valves, a bypass jumper was installed in May 1990 to defeat the pump start on an open outlet isolation valve and to allow a direct pump start on an LOP signal.

As a result of an NRC review in March 1996 it was determined that the jumper was still installed and LER 96-005 was written to report this condition as being outside the design basis.

Modification package, PDCR No. MP3-94-099 Titled: Remove 3SWP-\*P3A/B Start Signal from 3SWP\*MOV 130A/B, supplied by NU in response to Request for Information (RFI) # 159 indicated that the modification was not yet completed.

Master Commitment Record (PI-6) # 28306 states that PDCR-94-099 documents that Bypass Jumper 3-90-020 has been removed. Commitment Record # 29113 states that this BJ was removed in May, 1996 and a permanent plant modification was made that restores all auto-start design features, and does not rely on any operator actions.

The discrepancy is that the transmitted modification package is not consistent with Master Commitment Records (PI-6) # 28306 and #29113. Removal of the BJ to restore design configuration can not be confirmed.

	Valid	Invalid	Review Needed	Date
Initiator: Spear, R.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10/1/97

ICAVP  
Discrepancy Report

VT Lead: Bass, Ken	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10/6/97
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Date: 10/1/97

**INVALID:** Additional documentation was received on 9/29/97 which confirmed that the Bypass Jumper (BJ) had been removed and the modification/PDCR closed out. This additional documentation verifies the design configuration.

A review of the modification will be completed as part of the design change verification.

Date:

**RESOLUTION:**

Previously Identified by NU?  Yes  No

	Acceptable	Not Acceptable	Review Needed	Date
Initiator: (none)				
VT Lead: Bass, Ken	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Date:				
SL Comments:				

# ICAVP Discrepancy Report

Review Group: System  
 Review Element: System Design  
 Discipline: Piping Design  
 Discrepancy Type: Calculation  
 System/Process: QSS  
 NRC Significance level: 4

DR INVALID

Potential Operability Issue

Yes  
 No

Date FAXed to NU:

Date Published:

**Discrepancy:** Pipe stress analysis does not utilize latest design input

**Description:** During review of the following calculations

- (i) 12179-NP(F)-842-XD Rev 2, CCN 1
- (ii) 12179-SDP-RSS, Rev. 4, Dated: 5-29-97

we noted the following discrepancies:

Pipe stress calculation (i) is performed using design input from a superseded Stress Data Package (SDP) calculation 12179-SDP-RSS Rev. 0, Dated: 1-14-93. The current version of the SDP is (ii). The operating temperature used in the pipe stress calculation (i) is 115 deg F, while the revised operating temperature for condition 7, according to (ii), is 257 deg F.

	Valid	Invalid	Review Needed	Date
Initiator: Jain, R. C.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10/3/97
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10/7/97
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Date: 10/3/97

**INVALID:** The nozzles are free standing. Therefore, thermal expansion will not be obstructed, and hence the change in stresses due to the temperature discrepancy will be negligible. The discrepancy has nevertheless been identified in the checklist.

Date:

**RESOLUTION:**

Previously identified by NU?  Yes  No

	Acceptable	Not Acceptable	Review Needed	Date
Initiator: (none)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Lead: Neri, Anthony A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VT Mgr: Schopfer, Don K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
IRC Chmn: Singh, Anand K	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Date:				
SL Comments:				