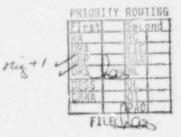
Commonwealth Edison



One First National Plaza, Chicago, Illinois Address Reply to: Post Office Box 767 Chicago, Illinois 60690

May 23, 1986



DMB

Mr. James G. Keppler Regional Administrator U.S. Nuclear Regulatory Commission Region III 799 Roosevelt Road Glen Ellyn, IL 60137

> Subject: Dresden Station Unit 3 Modification Installation Inspection NRC Docket Nos. 50-249

Dear Mr. Keppler:

Per your request, enclosed please find copies of information presented at the May 21, 1986 meeting at Region III offices regarding the subject inspection findings. Attachment 1 contains copies of the transparencies utilized in our presentation. Attachment 2 contains copies of the matrices we developed during our detailed review of the individual inspection findings.

We will contact you at a later date to arrange a meeting at Dresden Station during which we will present the results of our ongoing investigations and proposed long term corrective actions. If you wish to further discuss the enclosed information, please contact this office.

Very traly yours,

MAY 27 1986

D. L. Farrar Director of Nuclear Licensing

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Enclosures

cc: J. M. Taylor - I&E
J. A. Zwolinski - NRR
R. A. Gilbert - NRR
Resident Inspector - Dresden

1711K	8606020034 PDR ADOCK	05000249
	a	PDR

ATTACHMENT 1

TRANSPARENCIES FROM MAY 21, 1986

CECO/NRC MEETING

1711K

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NRC Presentation - 5/21/83

1.	Assessment of NRC Findings	С.	Reed
	A. Process - Interdisciplinary Review		"
	B. Findings - Safety Significance	J.	Abel
	C. Grease Issue		"
	D. 50.59 Issue		"
2.	Identified Weaknesses	D.	Scott
3.	Corrective Actions		"
4.	Actions At Other Stations	D.	Galle
5.	Summary	C,	Reed

Assembled Large Interdisciplinary Review Team

Experienced Personel Many Backgrounds

Reviewed All 100+ NRC Concerns

Constructed Matrix

Evaluated Accuracy, Safety Significance & Corrective Actions

FINDINGS

1.	22 Packages Reviewed - 20 Modifications & 2 Work Requests
2.	Summary of Findings
	-Improper Installation
	-Improper Changes to Design (Field Change Reviews & Documentation)
	-Inadequate Procedures and Instructions
	-Inadequate Quality Assurance and Control - Indicated by Other Findings

1

FINDINGS

3. Examples of Findings

-Improper Installation

Cable Splices -Instrument Rack Weld

-Improper Change to Design

Torus Vaccuum Breaker Environmentally Qualified Solenoid Valve Orientation

-Inadequate Procedures & Instructions

Torus Vaccum Breaker Air Hose Connections and Electrical Splices

-Inadequate Quality Assurance and Quality Control

Inspection of Electric Splices Prior to Placing in the Junction Box Interdisciplinary Review Safety Significance Evaluations

 No Immediate Safety Concerns

 -Units in Cold Shutdown
 -No Significant Deficiencies Identified on Operable Systems

 Several Items Potentially Safety Significant If Undetected and Uncorrected

 -Recirc. Pipe Replacement
 Interference Removal Outside Scope of Work Packages

-Electrical Splices (RAYCHEM)

-Wiring Connected to Wrong Terminals

Lubrication of Pratt Valve Seats

-NRC Confirmatory Action Letter (April 13, 1983)

Implement Program to Ensure that Foreign Materials are not Applied to Valve Seating Surfaces

-Commonwealth Edison Response (April 22, 1983)

> Restriction on Use of Lubricants on Valve Seating Surfaces Will Be In Accord With Valve Vendor Recommendations

-Henry Pratt Company Recommendations (November 1984)

> "Steps Should Be Taken To See That The Valves Are Cleaned With A Solvent Instead Of An Abrasive And Lightly Lubricated With Silicone Based Grease..."

-WR 39291/2 Did Not Cause The Valves To Be Opened

10CFR 50.59 Reviews

-Field Changes to Modification Designs Require Design Review

-Changes to Design Details Do Not Require A 10CFR 50.59 Safety Evaluation Per 3-2. "At Operating Plant Sites Only Minor Desigh Changes Will Be Processed By FCR. Major Changes Shall Be Processed As Revised Modification Per QP 3-51"

-Example

Missed Weld On Instrument Rack Structural Change Will Receive Documented Design Review Without A New Safety Evaluation

Identified Weaknesses

Ι.	Improper Installation
	A. Instructions Need Improvement
	B. Failure to Follow Instructions
	c. Attitude - Allow Change w/o Adequate Documentation
	D. Human Error
II.	Adherence to Design Change Control
	A. FCR System Perceived to be Too Complex
	B. Training Needs Improvement
	C. Attitude - Allow Change w/o
	Adequate Documentation
	D. Accountability Needs Enhancement
III.	Procedures/Instructions
	A. Insufficient Detail
	B. Lack of Acceptance Criteria
	C. Instructions Not Transmitted
	to Worker
IV.	QA/QC Overview
	A. QC INSPECTIONS/QA PROGRAM AUDITS NEED ADDITIONAL DETAIL

B. QC INSPECTIONS/QA PROGRAM AUDITS NEED ADDITIONAL COMPREHENSIVENESS

Corrective Actions

1.	Review All Unit 3 S/R Modification Packages
	Installed This Outage By Sta. Maint. & SSC. (Correct/Eval. Safety Significance Of Any Ident. Deficiencies)
2.	Review 5 Unit 3 S/R Design Changes Installed
	By Contractors (Correct/Eval. Safety Significance Of Any Ident. Deficiencies)
3.	Inspect 50% of Station RAYCHEM Splices (Sample Will Include All D2 Drywell Splices)
4.	Walkdown CB&I Interference Scope Boundaries
5.	Discuss Design Change Problems and Expectations With All Involved Station Employees
6.	Ensure Sufficient Corp. Engineering Onsite to Handle Design Change Requests
7.	Increase Tech, Staff Involvement In Design Change Package
8.	Resolve All Specific Deficiencies Identified By The Safety System Outage Modification Installation Inspection Team

ACTIONS TAKEN AT OTHER OPERATING STATIONS (QC/Z/LS/BY)

O MAY 19, 1986 NUCLEAR STATION'S DIVISION MEMO

INSPECT (10) RAY-CHEM SPLICES

+ MINIMUM BEND RADIUS

+ LENGTH

+ FIBER GLASS BRAID

REVIEW (5) MOD PACKAGES (STATION, SUB-STA., CONST., CONTRACTOR) FOR INSTALLATION CHANGES W/O ADEQUATE DESIGN APPROVAL

REVIEW (5) MOD PACKAGES (STATION, SUB-STA. CONST., CONTRACTOR) FOR POST INSTALLATION VERIFICATION

- + CABLE TERMINATION WITH DESIGN DRAWINGS
- + USE OF SPECIFIED MATERIALS
- + FAB® CATION IAW DESIGN

EVALUATE SUB-STATION CONSTRUCTION WORK INSTRUCTIONS AND PROCEDURES FOR COMPLETENESS

O QUALIFIERS

- IMPRECISE INSTRUCTIONS
- QUICK SNAPSHOT
- CALIBRATION OF REVIEWERS
- RESULTS PRELIMINARY

SUMMARY OF PRELIMINARY RESULTS (AS OF 4:00 P.M. ON 5/20)

OTHER STATIONS REVIEW (QC/Z/LS/BY)

	RAY-CHEM SPLICE	CONTROL OF INSTALLATION CHANGES	POST INSTALLATION VERIFICATION	ADEQUACY OF SUB-STA. PROC.
QUAD	(11) INSP. ALL OK (NOT EQ HOWEVER)	(5) MODS - ALL OK	(5) MODS - ALL OK (EXCEPT POLARITY REVERSED ON TIMER COIL, FUNCTIONALLY OK)	YES
ZION	(6) BUTT SPLICES INSP. ALL OK	(5) MODS - ALL OK	(5) MODS - ALL OK	YES
	 (16) END SPLICES INSP. (16) SHORT (8) BRAIDING EXTENDS UNDER TUBE 			
LSCS	(12) INSP. ALL OK	(3) MODS - ALL OK (PLUS 1985 REVIEW)	(3) MODS - ALL OK (PLUS 1985 REVIEW)	NO
BYRON	(20) INSP. ALL OK	(8) MODS - ALL OK	(8) MODS - ALL OK	N/A

Summary

Conducting general review of modification program at all our stations.

Long term correctice actions identified within 30 days.

Will make inprovements in:

Accountability

Training

COMPREHENSIVENESS AND DETAIL IN QC INSPECTIONS/QA OVERVIEW

LEVEL OF DETAIL IN SSC PROCEDURES

Attachment 2

INSPECTION FINDINGS EVALUATION MATRIX

The following pages summarize the results of the detailed evaluation of the inspection findings performed by our interdisciplinary task force prior to and subsequent to the May 21, 1986 meeting at Region III. For each modification package reviewed during the inspection, the task force addressed each deficiency as characterized by the inspection team throughout the inspection and at the interim debriefing on May 7, 1986. The review addressed whether CECO. agrees with each finding as described by the inspectors, the safety significance of each finding, and short term and long term corrective actions. The descriptions below provide additional background on the meaning of each column heading as intended by the task force participants.

<u>NRC Issue</u> - This column reflects the specific findings or deficiencies identified by the inspection team for each modification. The description of each deficiency represents the findings as characterized by the inspection team members and communicated to our staff.

<u>CECo. Agreement</u> - This column indicates whether Commonwealth Edison agrees with each deficiency as characterized by the inspection team. In some cases, agreement is indicated on the basis that we concur that a deficiency exists with regard to the specific finding although we may not agree with the manner in which it was characterized. These conclusions represent the collective opinion of the interdisciplinary task force based on discussions with plant personnel involved in the inspections and a review of the documentation associated with each mod package.

<u>Safety Significance</u> - This column represents the actual immediate safety significance of each individual finding in the judgement of the task force members. These conclusions are based on the accuracy of the findings as described by the inspection team, consideration of subsequent testing or documentation reviews that had not yet been performed and engineering evaluations of discrepancies. Note that this column reflects our perception of the immediate safety significance on an item-by-item basis and is not intended to reflect a collective review of the findings.

Corrective Actions - The short term corrective actions reflect actions currently completed or in progress to resolve specific deficiencies. Long term corrective actions are indicated for some items. In many cases, identification of long term actions has been deferred pending completion of our task force investigations.

NRC Concern -

This column reflects the more general areas of concern into which we believe the individual findings would be grouped by the inspection team.

- 2 -

M12-3-84-27 and M12-3-84-28 (INSTALL 3-1601-50A & B SOLENOTD VALVES)

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	NRC ISSUE	CECo AGREEMENT	SAFETY SIGNIFICANCE	CORRECTIVE SHORT TERM	ACTION LONG TERM	NRC CONCERN
A)	Station Traveler says install solenoid vertically, however, solenoid is horizontal.	Yes	None (vendor allows to be horizontal)	Change Unit 2 Mod Package New MMP for Unit 3	-	Inadequate Procedure
B)	Westec E.Q. checklist was for different valves	Yes	None (final QÅ/ QC documentation review would find error)	Verify correct catalog # and revise check- list	-	Inadequate Procedure
.)	Serial #'s for solenoids not the same as red tags in packages. Suspect red tags were reversed in packages. NRC asked us to verify this.	Yes	None (final QA/ QC documentation review would find error)	Red tags placed in proper packages	-	Lack of QA/QC Review
))	Schematic air line detail is wrong.	Yes	None(test would have found problem)	Correct Drawings	-	Inadequate Procedure Inadequate Design Change
:)	Operational test does not include a stroke time (just says open or closed) Does not like second part of test that verifies valve would open on loss of air. Does not believe step is explicit enough to verify proper operation	Yes	None (would have been required be- fore startup) DOS and DIS before unit start-up	A contract of the contract of	-	Inadequate Procedure
)	Critical Drwg is wrong for M-25 & M-356.	Yes	None - M-25 was correct	DCR submitted for M-356	-	Inadequate Design Control
					1.0	

			601-50A & B SOLENOI	1		T
	NRC ISSUE	CECo AGREEMENT	SAFETY SIGNIFICANCE	CORRECTIVE SHORT TERM	ACTION LONG TERM	NEC CONCERN
G)	MMP States no existing drawing is affected by Mod. However, P&ID's are a ffected.	Yes	None - M-25 was correct	DCR submitted for M-356	-	Inadequate Design Control
H)	Poor workmanship on air tubing to the 3-1601-20B valve.	No	None - reinspec- tion indicates no air flow restriction	-	-	Improper installation Inadequate QA/QC
1)	U-2 solenoids installed correctly however, package did not reflect changes in packages.	Yes	None - installa- tion within vendor tolerances	Correct drawings	Task Force Recommenda- tions	Improper Installation

	(PROVIDE A FLANGED PORTHQLE BETWEEN UNIT 2 & 3 RX BLDG FOR DECON				
NRC ISSUE	CECo AGREEMENT	SAFETY SIGNIFICANCE	CORRECTIVE A SHORT TERM	ACTION LONG TERM	NRC CONCERN
Questioned that this Mod should be safety related.	No	None- Not secon- dary cont. bound- ary and proper review by SNED	-	-	Inadequate Design Change
Mod package lacks details. (e.g. no weld sizes, grout spec, pipe size, etc.)	No	None - details were included	-		Inadequate Procedure
S&L technical evaluation in package only discusses a 4" diameter core bore in wall. However, a 5" core bore was installed. Exact location on wall where hole is installed is different than where referenced in pack- age.	Yes	None - based on engineering evaluation	Engineering Evaluation		Inadequate Design Change
No explicit weld direction given (sketch says 3/8" weld, however 1/8" welds used).	Yes	None - not structural or pressure boundary weld	Repair Weld		Inadequate Procedure Inadequate QA/QC Involvement
S&L asks to mention a REBAR HIT, however, no mention of Rebar in package.	Yes	None - hits within engineer- ing guidelines	Document Hits, Engineering Evaluation	-	Inadequate Frocedure
Safety Evaluation made to approve 4" holes not 5" holes.	Yes	None - based on engineering and safety evalua- tions	New Safety Evaluation, Engineering Evaluation	-	Inadequate 50.59 Review
	 be safety related. Mod package lacks details. (e.g. no weld sizes, grout spec, pipe size, etc.) S&L technical evaluation in package only discusses a 4" diameter core bore in wall. However, a 5" core bore was installed. Exact location on wall where hole is installed is different than where referenced in package. No explicit weld direction given (sketch says 3/8" weld, however 1/8" welds used). S&L asks to mention a REBAR HIT, however, no mention of Rebar in package. Safety Evaluation made to 	be safety related.Mod package lacks details. (e.g. no weld sizes, grout spec, pipe size, etc.)NoS&L technical evaluation in package only discusses a 4" diameter core bore in wall. However, a 5" core bore was installed.YesExact location on wall where hole is installed is different than where referenced in pack- age.YesNo explicit weld direction given (sketch says 3/8" weld, however 1/8" welds used).YesS&L asks to mention a REBAR HIT, however, no mention of Rebar in package.Yes	be safety related.dary cont. bound- ary and proper review by SNEDMod package lacks details. (e.g. no weld sizes, grout spec, pipe size, etc.)NoNone - details were includedS&L technical evaluation in package only discusses a 4" diameter core bore in wall. However, a 5" core bore was installed.YesNone - based on engineering evaluationNo explicit veld direction given (sketch says 3/8" weld, however 1/8" welds used).YesNone - not structural or pressure boundary weldS&L asks to mention a REBAR HIT, however, no mention of Rebar in package.YesNone - hits within engineer- ing guidelinesSafety Evaluation made to approve 4" holes not 5" holes.YesNone - based on engineering and safety evalua-	be safety related.dary cont. bound- ary and proper review by SNEDMod package lacks details. (e.g. no weld sizes, grout spec, pipe size, etc.)NoNone - details were included-S&L technical evaluation in package only discusses a 4" diameter core bore in wall. However, a 5" core bore was installed.YesNone - based on engineering evaluationEngineering EvaluationNo explicit weld direction given (sketch says 3/8" weld, however 1/8" welds used).YesNone - not structural or pressure boundary weldRepair WeldSafety Evaluation made to approve 4" holes not 5" holes.YesNone - based on engineering and safety evalua- fing guidelinesDocument Hits, Evaluation	be safety related.dary cont. bound- ary and proper review by SNEDdary cont. bound- ary and proper review by SNEDMod package lacks details. (e.g. no weld sizes, grout spec, pipe size, etc.)NoNone - details were included-S&L technical evaluation in package only discusses a 4" diameter core bore in wall. However, a 5" core bore was installed.YesNone - based on engineering evaluationEngineering Evaluation-No explicit weld direction given (sketch says 3/8" weld, however 1/8" welds used).YesNone - not structural or pressure boundary weldRepair Weld-S&L asks to mention a REBAR HIT, however, no mention of Rebar in package.YesNone - hits ing guidelines- ing guidelines- ing guidelines- ing guidelines- ing guidelines- asafety evaluation made to approve 4" holes not 5" holes.YesNone - based on engineering and safety evaluation, engineering evaluationNone - based on engineering evaluationNone - based on engineering evaluation-

(PROVIDE A FLANGED PORTHOLE BETWEEN UNIT 2 & 3 RX BLDG FOR DECON HOSES

5/23

	NRC CONCERN	Improper installation Inadequate Procedure Inadequate QA/QC	Lack of 50.59
CON HOSES)	ACTION LONG TERM		1
2 & 3 RX BLDG FOR DECON HOSES)	CORRECTIVE ACTION SHORT TERM LONG	1	Evaluation
M12-2/3-85-34 BETWEEN UNIT	SAFETY SIGNIFICANCE	None - package was followed	None - per engineering evaluation
(PROVIDE A PLANCED PORTHOLE	CECO AGREEMENT	No	Yes
(PROVIDE	NRC ISSUE	G) Pipe in wall was not grouted as specified in package.	H) No documentation on a Fire Barrier Approval included in package.

RPR INTERFERENCES M12-3-85-17

		CAPETY	CORPECTIVE	ACTION	
NPC ISSUE	CECO AGREEMENT	SIGNIFICANCE	SHORT TERM	LONG TERM	NRC CONCERN
2 piping runs did not match CB&I/Impell sketch drawings #181 and #187	No	None - piping matches drawings	Complete verification on piping run	-	Improper Instal- lation
No spring hanger setting on Drwg #181.	Yes	None - final QC/ QA documentation review would find error	Received hanger setting	-	Inadequate Procedure
Observation; cut in a frame needs repaired.	Yes	None (planned to repair)	-	-	-
Slope conditions on drains not defined	Yes	Potential	<pre>1.Evaluate technical significance 2.Walkdown & evaluate lines</pre>	-	Inadequate Design Change
CB&I sketches must be approved before being used. (Our comment was that Impell does approve the sketches).	Yes	None - sketches are approved	-	-	Inadequate Procedure
CB&I worked outside their scope.	Yes	Potential	<pre>1.Audit of work within packages 2.Umbrella walkdown & commitments 3.Fix specific items</pre>	-	Improper Instal- lation
	<pre>2 piping runs did not match CB&I/Impell sketch drawings #181 and #187 No spring hanger setting on Drwg #181. Observation; cut in a frame needs repaired. Slope conditions on drains not defined CB&I sketches must be approved before being used. (Our comment was that Impell does approve the sketches).</pre>	2 piping runs did not match CB&I/Impell sketch drawings #181 and #187NoNo spring hanger setting on Drwg #181.YesObservation; cut in a frame needs repaired.YesSlope conditions on drains not definedYesCB&I sketches must be approved before being used. (Our comment was that Impell does approve the sketches).Yes	2 piping runs did not match CB&I/Impell sketch drawings #181 and #187NoNone - piping matches drawingsNo spring hanger setting on Drwg #181.YesNone - final QC/ QA documentation review would find errorObservation; cut in a frame needs repaired.YesNone (planned to repair)Slope conditions on drains not definedYesPotentialCB&I sketches must be approved before being used. (Our comment was that Impell does approve the sketches).YesNone - sketches are approved	NPC ISSUECECO AGREEMENTSIGNIFICANCESHORT TERM2 piping runs did not match C&6//Impell sketch drawingsNoNone - piping matches drawingsComplete worffication on piping runNo spring hanger setting on Drwg #181.YesNone - final QC/ QA documentation review would fing errorReceived hanger settingObservation; cut in a frame needs repaired.YesNone (planned to repair)-Slope conditions on drains not definedYesPotential1.Evaluate technical significance 2.Walkdown & evaluate linesC&61 sketches must be approved be sketches).YesNone - sketches are approved be sketches).YesNone - sketches are approved work within packages 2.Umbrelia-C&61 sworked outside their scope.YesPotential1.Audit of work within packages 2.UmbreliaNone - sketches are approved walkdown & commitments 3.Fix specific	NMC ISSUECECO AGREEMENTSIGNIFICANCESHORT TERMLONG TERM2 piping runs did not match GAA1/Impell sketch drawingsNoNone - piping matches drawingsComplete verification on piping run-No spring hanger setting on Drwg #181.YesNone - final QC/ QA documentation review would fine errorReceived hanger setting-Observation; cut in a frame needs repaired.YesNone (planned to repair)Slope conditions on drains not definedYesPotential1.Evaluate lines-CB61 sketches must be approved the sketches).YesNone - sketches are approved the sketches).YesPotential-CB61 worked outside their scope.YesPotential1.Audit of work within packages 2.Umbrella-CB61 worked outside their scope.YesPotential1.Audit of work within packages 2.Umbrella-Shi worked outside their scope.YesPotential1.Audit of work within packages 2.Umbrella Walkdown & S.Pix specific-

NRC ISSUE	CECo AGREEMENT	SAFETY SIGNIFICANCE	CORRECTIVE A	ACTION LONG TERM	NRC CONCERN
A bronze valve was mentioned in package, however, a brass valve was actually used. No documentation was changed in package to reflect this.	Yes	None - S & L permits either type valve	DR written	Task Force Recommenda- tions	Inadequate Design Control
A Seismic Evaluation for the addition of this piping was not addressed.	No	None - (documented through 50.59)	Will complete seismic eval.	-	Inadequate Design Control
Package states a rising stem valve to be used however, a non-rising stem valve was actually used. Not documented.	Yes	None .	DR written	-	Inadequate Design Control
A 2-2 ½" socket was used to fit up on an 8" pipe. No men- tion of grinding was included in package.	No (addressed in general welding procedure)	None	-	-	Inadequate Procedure
NRC found the pressure gauge isolation valve open, however when we visited the plant, found the valve closed.	Yes (due to surv.)	None	Walked line and found valve in proper position	-	
	A bronze valve was mentioned in package, however, a brass valve was actually used. No documentation was changed in package to reflect this. A Seismic Evaluation for the addition of this piping was not addressed. Package states a rising stem valve to be used however, a non-rising stem valve was actually used. Not documented. A 2-2 ½" socket was used to fit up on an 8" pipe. No men- tion of grinding was included in package. NRC found the pressure gauge isolation valve open, however when we visited the plant, found	A bronze valve was mentioned in package, however, a brass valve was actually used. No documentation was changed in package to reflect this.YesA Seismic Evaluation for the addition of this piping was not addressed.NoPackage states a rising stem valve to be used however, a non-rising stem valve was actually used. Not documented.YesA 2-2 ½" socket was used to fit up on an 8" pipe. No men- tion of grinding was included in package.No (addressed in general welding procedure)NRC found the pressure gauge isolation valve open, however when we visited the plant, foundYes (due to surv.)	NRC ISSUECECO AGREEMENTSIGNIFICANCEA bronze valve was mentioned in package, however, a brass valve was actually used. No documentation was changed in package to reflect this.YesNone - S & L permits either type valveA Seismic Evaluation for the addition of this piping was not addressed.NoNone - (documented through 50.59)Package states a rising stem valve to be used however, a non-rising stem valve was actually used. Not documented.YesNoneA 2-2 ½" socket was used to fit up on an 8" pipe. No men- tion of grinding was included in package.No (addressed in general welding procedure)NoneNRC found the pressure gauge isolation valve open, however when we visited the plant, foundYes (due to surv.)None	NRC ISSUECECO AGREEMENTSIGNIFICANCESHORT TERMA bronze valve was mentioned in package, however, a brass valve was actually used. No documentation was changed in package to reflect this.YesNone - S & L permits either type valveDR writtenA Seismic Evaluation for the addition of this piping was not addressed.NoNone - (documented through 50.59)Will complete seismic eval.Package states a rising stem valve to be used however, a non-rising stem valve was actually used. Not documented.YesNoneDR writtenA 2-2 ½" socket was used to fit up on an 8" pipe. No men- tion of grinding was included in package.No (addressed in general welding procedure)None-NRC found the pressure gauge isolation valve open, however when we visited the plant, foundYes (due to surv.)NoneWalked line and found valve in	NRC ISSUECECO AGREEMENTSIGNIFICANCESHORT TERMLONG TERMA bronze valve vas mentioned in package, however, a brass valve vas actually used. NoYesNone - S & L permits either type valveDR writtenTask Force Recommenda- tionsA Seismic Evaluation for the addition of this piping was not addressed.NoNone - (documented through 50.59)Will complete seismic evalPackage states a rising stem valve to be used however, a non-rising stem valve was actually used. Not documented.YesNoneDR written-A 2-2 ½" socket was used to fit up on an 8" pipe. No men- tion of grinding was included in package.No (addressed in general welding procedure)NoneWalked line ad found valve in-NRC found the pressure gauge isolation wave open, however when we visited the plant, foundYes (due to surv.)NoneWalked line ad found valve in-

	LEẠD	SHIELDING REVIEWS			
NRC ISSUE	CECO AGREEMENT	SAFETY SIGNIFICANCE	CORRECTIVE SHORT TERM	ACTION LONG TERM	NRC CONCERS
Lack of lead installation procedure doesn't ensure analysis is valid.	Yes	None	-	1. Revise DAP 12=12 2.Write DTS	Inadequate Desig Control
Weed a 50.59 analysis for each	No	None - Procedure is reviewed per 50.59	-		Inadequate Desig Control

NRC ISSUE	CECO AGREEMENT	SAFETY SIGNIFICANCE	CORRECTIVE SHORT TERM	ACTION LONG TERM	NRC CONCERN
) Modification approval sheet and SNED Mod letter do not agree for T.S. and FSAR categories.	Yes	None - FSAR design require- ments met	Revise Mod approval sheet	Revise DAP 5-1	Inadequate Design Change

M12-3-83-29 (MODIFY LPCI CONTROL ROOM SUCTION VALVES 3-1501-5A, B, C & D)

M12-3-84-9 (ANTI-HAMMERING PREVENTION ON C.S. 1402-25A & B VALVES)

	NRC ISSUE	CECo AGREEMENT	SAFETY SIGNIFICANCE	CORRECTIVE SHORT TERM	ACTION LONG TERM	NRC CONCERN
1)	Need a drawing change to a cable tab.	Yes	None - Mod installed correctly	Submit DCR	Task Force Recommenda- tions	Inadequate Design Changes
2)	MOV 3-1402-25B incorrect cable ID ∯ for a wire in the field.	Yes	None (Cable I.D. problem not part of modification	Correct field label		Improper installation
3)	MOV 3-1402-25A splices exceed the minimum bend radius.	Yes	None- No actual damage	1.Straightened splice 2. Ray Chem Inspection Program	Task Force Recommenda- tions	Improper installation Inadequate Procedures Inadequate QA/QC

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-		M12-3-85-26 (1	RPR Electrical Inter	ferences)		•
	NRC ISSUE	CECo AGREEMENT	SAFETY SIGNIFICANCE	CORRECTIVE SHORT TERM	ACTION LONG TERM	NRC CONCERN
1)	ECTP does not have acceptance criteria for motors.	Yes	None - equipment meets design requirements	-	ECTP's to be revised	Inadequate Procedure
2)	2 wires were found terminated on the same terminal connection in the MOV 3-1501-228.	Yes	None - equipment operable	Fix termina- tions	-	Inadequate Design Changes
3)	Annaconda T.W. wire was found being used internally in the MOV 1001-5B.	No	None - not E.Q. because of short oper. time	-	-	Inadequate Design Changes
4)	In C.E. Package 042 field cable 76902 not striped to NRC satisfaction. (NRC comment)	No	None	-	-	-
5)	In C.E. Package, a T/C ground wire end crimped over insulation per NRC.	Yes	None - T/C still operable	Improve installation per this Mod		Improper installation Inadequate QA/QC involvement
6)	In C.E. Package, a concrete ex- pansion anchor extended too far out of embedment by NRC view- point.	No	None - minimum embedment verified to be correct	Verify embedment	-	Improper installation Inadequate QA/QC involvement

M12-3-85-26 (DDD Floatsical Istanformer)

	NRC CONCERN	Improper Installa- cion	
	ACTION LONG TERM	1	
	CORRECTIVE ACTION SHORT TERM LONG		
GENERAL COMMENTS	SAFETY SIGNIFICANCE	None - installa- tion meets original FSAR design require- ments	
(GEN	CECO AGREEMENT	No	
-	NRC ISSUK	 An HVAC cable which is non-safety was found being run down a Division I cable tray by the Nuthern panels, etc. Is this acceptable? 	

	M12-3-84-	M12-3-84-104(EQ MOV 3-202-5A)			
NRC ISSUE	CECo AGREEMENT	SAFETY SIGNIFICANCE	CORRECTIVE SHORT TERM	ACTION LONG TERM	NRC CONCERN
1. NRC found tape on motor leads, questioning applica- bility.	No.	None - meets EQ binder requirement	Engineering evaluation		Inadequate Design Changes

	NRC ISSUE	CECo AGREEMENT	SAFETY SIGNIFICANCE	CORRECTIVE SHORT TERM	ACTION LONG TERM	NRC CONCERN
1)	Hardware okay by Pope.	N/A	-	-	-	
2)	50.59 generic checklist problem in Q.A. Manual.	Yes	None - intent of 50.59 met	QA Manual revised	-	Inadequate Design Control
3)	Mod approval form and SNED letter does not agree. Change DAP 5-1	Yes	None - FSAB design require- ment met	Revise Mod approval sheet	Revise DAP 5-1	Inadequate Design Change
	 A) DAP 5-1 Form 5-1D (Fire Protection Checklist) not signed before start of work. B) Need Form 5-1D re-written to provide blanks for user to sign-off. 	Yes	None - no fire protection concerns associa- ted with this MOD None - same as 4A	Form Signed DAP Form to be revised	Task Force Recommenda- tions	Inadequate Procedures

	NRC ISSUE	CECO AGFERMENT	SAFETY SIGNIFICANCE	CORRECTIVE SHORT TERM	ACTION LONG TERM	NRC CONCERN
	Mod approval sheet and SNED Mod letter do not agree.	Yes	None - FSAR design requirements met	Revise Mod approval sheet	Revise DAP 5-1	Inadequate Design Change
2.	Wires landed incorrectly - traveler and drwg's correct, how- ever, mistake by workman in the field functional test and Q.C. release had not been completed yet	Yes	None- Testing would have found problem	Wiring corrected	Task Force Recommenda- tions	Improper Installation Inadequate QA/QC Involvement
	An FCR should have been incorporated for this job. (No orange-blk cable)	Yes	None - does not affect Mod	Issued FCR	-	Inadequate Design Change
• •	NRC believes this Mod should be reflected in the FSAR.	No	None - based on engineering evaluation	Engineering evaluation	-	Lack of 50.59 Review

M12-3-83-30 (MODIFY C.S. CONTROL ROOM SUCTION VALVES 3-1402-3 A & 's)

		NRC ISSUE	CECO AGREEMENT	SAFETY SIGNIFICANCE	CORRECTIVE SHORT TERM	ACTION LONG YERH	NRC COMPARN
1.	A)	E.Q. splices over braided jacket.	Yes	None (Raychem to discuss Monday)	Re-spliced	Task Force Recommenda- Lions	Improper installation Inadequate QA/QC
	в)	Conductor showing through splice.	Yes	Potential .	Conductor respliced	Task Force Recommenda- tions	Improper installation Inadequate Procedure Inadequate QA/QC
	C)	Marks on splice from codulet.	No	None - splice intact	-	-	
	D)	Exceeded Ray Chem minimum bend radius.	Yes	Potential	Conductor respliced	Task Force Recommenda- tions	

	NRC ISSUE	CECo AGREEMENT	SAFETY SIGNIFICANCE	CORRECTIVE SHORT TERM	ACTION LONG TERM	NRC CONCERN
1.	FCR 042-17 written to change configuration due to inter- ferences. Does SNED review and should a new 50.59 be written?	No	None - change reviewed per QA Manual		-	Inadequate Design Changes
2.	M-3620 Sheet 3 of 3 from A/E transmittal referenced for Unit 2 but not for Unit 3	No	None - M-3620 Sheet 3 does not apply to Unit 3	-	-	Inadequate Procedures
3.	M-3620 Sheet 2 of 3 says use ASTM-36 tubing, however not possible.	Yes	None - engineering evaluation	NCR started to correct draw- ing and mod letter	Task Force Recommenda- tions	Improper installation Inadequate Design Changes Inadequate QA/QC involvement
4.	On 2203-8 rack, a weld was missing.	Yes	None – engineering evaluation	Weld installed	Task Force Recommenda- tions	Improper installation Inadequate QA/QC involvement

M12-3-84-49 & 50 (E.Q. East and West LPCI Room Cooler Motors)

CECO	SAFETY	CORRECTIV	E ACTION	NRC	
AGREEMENT	SIGNIFICANCE	SHORT TERM	LONG TERM	CONCERN	
	None - engineering evaluation	Engineering evaluation	-	Inadequate Design Changes	
material Review r said he verify	None- Tag löst but part is listed on do checklist	- c.	-	Inadequate QA/QC involvement	
paired.	None - Necessary work accomplished	-	-	Inadequate Design Changes	
Cooler					
off/other Yes	None - redundant belts	Belt reinstalled	-	Improper installation Inadequate QA/QC involvement	
ed matched No	None- Surveillance would catch this	-	-	Inadequate Design Changes	
ot taken	None- Not required per Tech. Spec.	-	-	N/A	
	question; ge.Yesubing for material Review r said he verify ed tagsYesate all 3 paired. s only toNoCooler off/otherYesoff/otherYes	question; ge.YesNone - engineering evaluationubing for material Review r said he verify ed tagsYesNone- Tag lost but part is listed on do checklistate all 3 paired. s only toNoNone - Necessary work accomplishedCooler off/otherYesNone - redundant beltsate matchedNoNone - surveillance would catch this	AGREEMENTSIGNIFICANCESHORT TERMquestion; ge.YesNone - engineering evaluationEngineering evaluationubing for material Review r said he verify ed tagsYesNone- Tag lost but part is listed on doc checklist-ate all 3 paired. s only toNoNone - Necessary work accomplished-Cooler off/otherYesNone - redundant beltsBelt reinstalleded matchedNoNone - Surveillance would catch this-	AGREEMENTSIGNIFICANCESHORT TERMLONG TERMquestion; ge.YesNone - engineering evaluationEngineering evaluation-ubing for material Review re said he verify ed tagsYesNone- Tag lost but part is listed on doc checklistate all 3 paired. s only toNoNone - Necessary work accomplishedcooler off/otherYesNone - redundant beltsBelt reinstalled-cooler off/otherYesNone - Surveillance would catch thispractice to takenNoNone- Not required part Tech Spec	

M12-3-84-49 & 50 (E.Q. East and West LPCI Room Cooler Motors)

	CECO	SAFETY	CORRECTIV	E ACTION	NRC
<u> </u>	AGREEMENT	SIGNIFICANCE	SHORT TERM	LONG TERM	CONCERN
iaued-					
Plexible conduit not replaced.	No	None - not a design requirement in the Mod	Red tag re- moved from package	-	Improper installation Inadequate QA/QC involvement
Connection for conduit loose not per Traveler	Yes	None- Conduit cannot come off	-	-	Improper installation Inadequate QA/QC involvement
Per Westinghouse Manual, Raychem not okay for splicing but should have used 3M Scotch Tape.	No	None - engineering evaluation	Engineering evaluation	-	Improper installation Inadequate QA/QC involvement
Splice kit installed on glass braided tubing not per 2nd MMP.	No	None - engineering evaluation	Engineering evaluation	-	Improper installation Inadequate QA/QC involvement
Q.C. verification did not follow MMP.	No	None - MMP installa- tion was properly QC verified	-	-	Inadequate QA/QC involvement
For both M12-3-84-49&50 L. Q.C. inspector not qualified per ANSI 45.2.6	No	None - The 2 QC Inspectors meet ANSI 45.2.6 requirements	-	-	Inadequate QA/QC involvement
2. Not all Q.C. trained On Raychem splices	Yes	None- QC inspector qualified per ANSI 45.2.6 requirement	-	-	Inadequate QA/QC involvement
	Plexible conduit not replaced. Connection for conduit loose not per Traveler Per Westinghouse Manual, laychem not okay for splicing but should have used 3M Scotch Tape. Splice kit installed on lass braided tubing not ber 2nd MMP. C. verification did not follow MMP. Cr both M12-3-84-49&50 . Q.C. inspector not aualified per ANSI 45.2.6 . Not all Q.C. trained	Inued-Plexible conduit not replaced.NoSonnection for conduit loose not per TravelerYesPer Westinghouse Manual, Raychem not okay for oplicing but should have used 3M Scotch Tape.NoSplice kit installed on glass braided tubing not her 2nd MMP.NoO.C. verification did not follow MMP.NoOr both M12-3-84-49&50 ualified per ANSI 45.2.6No	nued-NoNone - not a design requirement in the ModPlexible conduit not replaced.NoNone - not a design requirement in the ModConnection for conduit loose not per TravelerYesNone- Conduit cannot come offPer Westinghouse Manual, laychem not okay for splicing but should have used 3M Scotch Tape.NoNone - engineering evaluationSplice kit installed on llass braided tubing not wer 2nd MMP.NoNone - engineering evaluationQ.C. verification did not ollow MMP.NoNone - MMP installa- tion was properly QC verifiedPor both M12-3-84-49&50 ualified per ANSI 45.2.6NoNone - The 2 QC Inspectors meet ANSI 45.2.6 requirementsNo tall Q.C. trained en Raychem splicesYesNone- QC inspector qualified per ANSI	Investiging District Value District Value District Value Insued- Plexible conduit not replaced. No None - not a design requirement in the Mod Red tag re- moved from package Connection for conduit loose not per Traveler Yes None - conduit cannot come off - Per Westinghouse Manual, loose not per Traveler No None - engineering evaluation Engineering evaluation Package No None - engineering evaluation Engineering evaluation Engineering evaluation Splice kit installed on class braided tubing not er 2nd MMP. No None - MMP installa- tion was properly QC verified - Or both MI2-3-84-49650 No None - The 2 QC Inspectors meet ANSI 45.2.6 - - No tall Q.C. trained on Raychem splices Yes None - QC inspector qualified per ANSI -	inued- No None - not a design requirement in the Mod Red tag re- - inued- No None - not a design requirement in the Mod Red tag re- - ioose not per traveler Yes None - Conduit cannot come off - - Per Westinghouse Manual, layehem not okay for pilicing but should have issed JH Scotch Tape. No None - engineering evaluation Engineering evaluation - Pilice kit installed on tass prodection did not of the MMP. No None - engineering evaluation Engineering evaluation - - Of the MMP. No None - engineering evaluation - - - - Of the MMP. No None - engineering evaluation - - - - Of the MMP. No None - engineering evaluation - - - - Of both M12-3-84-49650 No None - The 2 QC requirements - - - - Yor both M12-3-84-49650 No None - The 2 QC requirements - - - - Yor both M12-3-84-49650 No None - The 2 QC requirements - - - <

M12-3-84-49 & 50 (E.Q. East and West LPCI Room Cooler Motors)

		CELO	SAFETY	CORRECTIV	E ACTION	NRC
NRC	ISSUE	AGREEMENT	SIGNIFICANCE	SHORT TERM	LONG TERM	CONCERN
4)	Continued~					
	J) NRC does not like how Attachment "B" are/was filled out. Station Memo okay for T.S. but not sufficient for caution statement. Found error in T.S. sections on 49 pkg.	Yes	None - No evidence of any T.S. violations	Memo issued to Operating		Inadequate Procedures
	K) Form 5-1D not properly signed.	Yes	None - No fire protection concerns associated with this Mod	Form signed	Revise DAP 5-1	Inadequate Procedures
	L) Static Seismic Analysis not correct.	No	None - Engineering evaluation	Engineering Evaluation	-	Inadequate Design Changes
	M) No hold points for E.Q. splices for motor lead repair splices	Yes	None - Splices installed adequately	-	Task Force Recommenda- tions	Inadequate Procedures Inadequate QA/QC involvement
	N) No acceptance criteria for Megger. Results, etc. in Traveler.	Yes	None- Exceeds IEEE Standard	-	ECTP's to be revised	Inadequate Procedures
	0) No Polarization Test in Traveler as required for E.Q.	Yes	None- Not applicable for small motors	Engineering Evaluation	ECTF's to be revised	Inadequate Procedures
	P) Bolted connection splice over wire braid	Yes	None - Splice sealing area unaffected	Opened splice - found no problems	-	Improper Installation

	NRC ISSUE	CECO AGREEMENT	SAFETY SIGNIFICANCE	CORRECTIVE SHORT TERM	ACTION LONG TERM	NRC CONCERN
1)	Construction test signed off by maintenance man in two spots where only one spot should have been signed.	Yes	None - Test completed satisfactorily	Const. Test Corrected	-	Improper installation Inadequate QA/QC involvement
2)	Finding on wiring connection being wrong so that if M12-3-82- 27 was completed would disable a HGA 11 relay.	No	None- M12-3-82-27 has steps to put wire in proper place	Correct construction test (new MMP)	-	Improper installation Inadequate Design Change Inadequate QA/QC involvement
3)	Traveler step signed off for item 2 above but not correctly completed.	Yes .	None - Construc- tion test would catch	Correct Traveler (new MMP)	-	Improper installation Inadequate Design Change Inadequate QA/QC involvement
4)	Referenced copies of drawings in panels not all changed properly as signed off in traveler	Yes	None - Not used as a design document	Remove sketch - Revise MMP	-	Improper installation Inadequate QA/QC involvement
5)	Inadequate Design Change Control - 12E3757D had error but no FCR written.	Yes	None- Corrected in field.	DCR submitted	Task Force Recommenda- tions	Inadequate Design Change
6)	Unapproved notes on drawings to help workmen do the job/ notes should be on MMP.	No	None - Notes were aids to clarify drawing	Document approval of notes (new MMP)	Task Force Recommenda- tions	Inadequate Procedures

M12-3-84-8 (HGA 11 RELAY)

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	NRC ISSUE	CECO AGREEMENT	SAFETY SIGNIFICANCE	CORRECTIVE SHORT TERM	ACTION LONG TERM	NRC CONCERN
7)	Not all applicable drawings in package and NRC feels job should have been re-drawn showing as- built conditions. Traveler does not list all drawings.	No	None - Instruc- tions and drawings provided informa- tion needed for installation	-	-	Inadequate Design Change Inadequate Procedures
8)	Traveler does not give explicit details.	No	None - See item 6	Document approval of notes (new MMP)	Task Force Recommenda- tions	Inadequate Procedures
9)	Potential non-compliance for no DAP 2-7 Attachment "A" for drawing 12E-2758C Rev. Y.	No	None - Drawing 12E2758C Rev. Y does not exist	-	-	Inadequate Design Change

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	NRC ISSUE	CECO AGREEMENT	SAFETY SIGNIFICANCE	CORRECTIVE SHORT TERM	ACTION LONG TERM	NRC CONCERN
1)	50.59 problem as stated in M12-3-83-38 and 39.	Yes	None - Intent of 50.59 met	QA Manual revised	-	Inadequate Design Control
2)	Step 10 of Traveler dated 2-6-85 states all work to be completed by approved SSC procedures. However, SSC has no procedures for all evolutions. e.g., cable pull procedure which measures tension Install cable tray Run raceways and termination, etc.	Yes	None - No signifi- cant installation deficiencies except for Ray Chem splices	-	Generate new procedures	Inadequate Procedures
3)	In 3-2202-73 A & B have NSR and SR cables not 6" separation	Yes	None - installa- tion not finished yet	ECN to be issued	-	Inadequate Design Changes
4)	Per 12E-2103A, Rev. E, Note 5 says record pull tension of cable. SSC does not have a procedure to do this nor was it documented.	Yes	None - Requirement not necessary based on installa- tion methods	(on cable	-	Inadequate Procedures
5)	Stickers on conduits too far apart greater than 15 feet.	Yes	None - Cable identification maintained	Install more stickers	-	Improper installation Inadequate QA/QC involvement
6)	Supports greater than 42" from conduit bends.	Yes	None - Engineering evaluation	NCR issued	-	Improper installation Inadequate Design Changes Inadequate QA/QC involvement

M12-3-83-40 (RVLIS AND TESTING MOD)

	NRC ISSUE	CECO AGREEMENT	SAFETY SIGNIFICANCE	CORRECTIVE SHORT TERM	ACTION LONG TERM	NRC CONCERN	
)	Improper grounding from conduit to cable trays.	Yes	None- Personnel safety issue	Ground clamps to be in- stalled	Task Force Recommenda- tions	Improper installation Inadequate QA/QC invo'vement	
;)	In panel 3-2352 and 3-2389 A & B splices did not conform to vendor requirements. Vendor requirements found in 83-40 but not in 83-38. Raychem splice approximately 3" long not 6" as required.	lices did not conform to ndor requirements. Vendor quirements found in 83-40 t not in 83-38. Raychem lice approximately 3" long		Change fit- tings and resplice Task Force Recommenda- tions		Improper installation Inadequate Procedures Inadequate QA/QC involvement	
))	DFPP 4175-1 Rev. 0 does not reflect T.S. 3.12.4 and procedure in package. However, DFPP 4175- 1 Rev 1 does reflect T.S.						
	 A) Concerned that temporary firestop using Kaowool is not adequate. 	No	None - Engineering evaluation	Engineering evaluation		Inadequate Design Control	
	B) This should be a temporary mod using a 50.59 review.	No	None - Proce- duraily controlled	-	-		
0)	No Q.C. hold points for E.Q. splices as required by DAP 15-1. NRC feels this is a general problem with SSC work.	Yes	Not in service yet	QC hold pts on splice rework	Task Force Recommenda- tions	Improper installation Inadequate QA/QC involvement	
			1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -				

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	M12-3-8	3-16 (MSL RAD MONITO	RS)		
NRC ISSUE	CECO AGREEMENT	SAFETY SIGNIFICANCE	CORRECTIVE SHORT TERM	ACTION LONG TERM	NRC CONCERN
T.S. reference in DAP 15-1 Attachment "B" is incorrect.	Yes	None - Applicable Tech Spec not required at this time	Correct Att, "B", Memo to Operating	-	Inadequate Procedures -
DAP 5-1 Form 5-1D not filled out	Yes	None - No fire protection concerns associa- ted with this Mod	DAP form being revised	-	Inadequate Procedures
Installation test needs to be initialed not checked per ANSI standards.	No	None - ANSI N45. 2.3 does not require each step to be initialed	Check ANSI standard	-	Inadequate Procedures
NRC asked to see seismic qual. documents.	NA	-	-	-	
Needs acceptance criteria for test.					
A) MSL Mon.	No	None - GE func- tional test required by Spec T-3315	-	-	Inadequate Procedures
B) Recorder	Yes	None - Not in service	Revise Test		Inadequate Procedures
No reference in mod installation test for proper "Q" setpoint & trips and settings.	Yes	None - Surv. to be performed before S/U	Procedure being written for "Q"		Inadequate Procedures
	 T.S. reference in DAP 15-1 Attachment "B" is incorrect. DAP 5-1 Form 5-1D not filled out Installation test needs to be initialed not checked per ANSI standards. NRC asked to see seismic qual. documents. Needs acceptance criteria for test. A) MSL Mon. B) Recorder No reference in mod installation test for proper "Q" setpoint & 	NRC ISSUECECo AGREEMENTT.S. reference in DAP 15-1 Attachment "B" is incorrect.YesDAP 5-1 Form 5-1D not filled outYesInstallation test needs to be initialed not checked per ANSI standards.NoNRC asked to see seismic qual. documents.NANeeds acceptance criteria for test.NAA) MSL Mon.NoB) RecorderYes	NRC ISSUECECo AGREEMENTSAFETY SIGNIFICANCET.S. reference in DAP 15-1 Attachment "B" is incorrect.YesNone - Applicable Tech Spec not required at this timeDAP 5-1 Form 5-1D not filled out Installation test needs to be initialed not checked per ANSI standards.YesNone - No fire protection concerns associa- ted with this ModNRC asked to see seismic qual. documents.NoNone - ANSI N45. 2.3 does not require each step to be initialedNRC asked to see seismic qual. documents.NA-Needs acceptance criteria for test.NoNone - GE func- tional test required by Spec T-3315B) RecorderYesNone - Not in serviceNo reference in mod installation test for proper "Q" setpoint &Yes	NRC ISSUECECO AGREEMENTSAFETY SIGNIFICANCECORRECTIVE SHORT TERMT.S. reference in DAP 15-1 Attachment "B" is incorrect.YesNone - Applicable Tech Spec not required at this imeCorrect Att. "B", Memo to OperatingDAP 5-1 Form 5-1D not filled out Installation test needs to be initialed not checked per AMSI standards.YesNone - No fire protection concerns associa- ted with this ModDAP form being revisedNRC asked to see seismic qual. documents.NANeeds acceptance criteria for test.NoNone - GE func- tional test med by Spec T-3315-B) RecorderYesNone - Not in serviceRevise TestNo reference in mod installation test for proper "Q" setpoint 6YesNone - Surv. to be performedProcedure being written	NRC ISSUECECO AGREEMENTSAFETY SIGNIFICANCECORRECTIVE ACTION SHORT TERMT.S. reference in DAP 15-1 Attachment "B" is incorrect.YesNone - Applicable Tech Spec not required at this timeCorrect Att. "B", Memo to Operating-DAP 5-1 Form 5-1D not filled out Installation test needs to be initialed not checked per AMSI documents.YesNone - No fire protection concerns associa- ted with this ModDAP form being revised-NRC asked to see seismic qual. documents.NANeeds acceptance criteria for test.NoNone - GE func- required by Spec T-3315B) RecorderYesNone - Not in serviceNo reference in mod installation test for proper "Q" setpoint &YesNone - Surv. to be performedNo reference in mod installation test for proper "Q" setpoint &YesNone - Surv. to be performedProcedure being written-

NRC ISSUE	CECo AGREEMENT	SAFETY SIGNIFICANCE	CORRECTIVE ACTION SHORT TERM LONG	ACTION LONG TERM	NRC CONCERN
1) Form 5-1D not signed.	Yes	None	DR written form signed	1	Inadequate Procedure
2) Also, mod referenced DGA 19, but this procedure deleted and placed in DEOP's.	N	None - DCA 19 existed at time checklist prepared	1	1	Inadequate Procedures

M12-3-84-42 (HPCI WHIP RESTRAINT)

		CR	NERAL PROBLEMS			· · · · ·
	NRC ISSUE	CECO AGREEMENT	SAFETY SIGNIFICANCE	CORRECTIVE SHORT TERM	ACTION LONG TREM	NRC CONCERN
A)	In 903-33 & 32, ½" dia. spare cable needs to be removed or secured and labeled.	Yes	None - Workmanship	Remove cable	-	Improper installatio
B)	No OOS tags on this cable mentioned above.	No	None - Not within OOS scope	-	-	
c)	903-32, no covers on trays (Panduit)	Yes	None	WR written to replace covers	-	
D)	Paper combustibles in 903-32.	Yes	None	Paper removed	-	
E)	14 safety related fuses removed but only a few had OOS tags connected to fuses. Other OOS tags just on bottom of panel	Yes	None	OOS tag to be placed on fuses - memo issued to Operating Dept	-	
F)	Terminal block broken in 903-33. Work request written to repair	Yes	None- Just cracked	WR written to repair terminal block	-	
G)	Bad splice in 903-33 panel.	Yes	None	WR written to replace cable- no splice	-	
		a har start				

NRC ISSUE		CECO AGREEMENT SIGNIFICANCE		CORRECTIVE SHORT TERM	NRC CONCERN	
A)	A/E drawing reflects as-built assembly after Mod was installed Cooler #'s were backwards on drawings three of the dimensions were not correctly shown on as-built drawing.	Yes	None - Engineering evaluation	Engineering evaluation and DCR	Task Force Recommenda- tions	Inadequate Design Change
B)	No direction in package was given for proper orientation of valve in pipe.	Yes	None (valve in- stalled properly)	-	-	Inadequate Procedure
c)	Operating procedures should address perferred flow direc- tion	Yes	None - Engineering evaluation	Engineering evaluation		Inadequate Procedure

NRC ISSUE				SAFETY CORRECTIVE AC SIGNIFICANCE SHORT TERM		NRC CONCERN	
A.)	Bolt problem not correctly documented in package. Used correct bolt however, not properly documented.	Yes	None - Proper bolt was installed	DR written	Task Force Recommenda- tions	Inadequate Design Change Inadequate Procedure	
8)	Weld was different than stated on weld MAP.	Yes	None - Weld does not affect safety function of valve	Finish Weld	Task Force Recommenda- tions	Improper Installation	
c)	Work request states to apply silicone grease to seats. NRC concerned this is the same issue as the MSIV grease issue.	No	None - CAL not violated	-	-	Inadequate Procedure	
D)	NRC feels this work request should be a Mod.	No	None - Classified in accordance with QA Manual	-	-	Inadequate Design Control	
E}	Didn't stake all bolts as W.R. states. Staking was not practical, however not documented.	Yes	None - Impractical	Document Change in Package	Task Force Recommenda- tions	Inadequate Design Change	
F)	W.R. needs a 11-7A or 11-5A for bolts.	No	None - Proper bolt was installed	-	-	Inadequate Procedure	
c)	No sign-off for system cleanliness.	No	None - (package had not been closed out & valve not opened)	-	-	Inadequate QA/QC Involvement	

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NRC CONCERN	Inadequate Procedure	
TERM		
ACTION		
CORRECTIVE J		
SAFETY SIGNIFICANCE	None	
CECo AGREEMENT	No (TJM package)	
NRC ISSUE	H) General concern on how machinery history is maintained.	
	CECO AGREEMENT SIGNIFICANCE SHORT TERM LONG TERM NRC CONCERN	NRC ISSUE CECo AGREEMENT SAFETY SIGNIFICANCE CORRECTIVE ACTION NRC ISSUE CECo AGREEMENT SIGNIFICANCE SHORT TERM LONG TERM NRC CONCERN General concern on how machinery No (TJM package) None - - Inadequate history is maintained. No Toto (TJM package) None - - Procedure

WORK REQUEST ON 3-1601-50A & B VALVES/1601-20A & 20B

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NRC CONCERN	Improper Installa- tion
ACTION LONG TERM	
CORRECTIVE ACTION SHORT TERM LONG	Issue FCR
SAFETY SIGNIFICANCE	None (installed adequately)
CECo AGREEMENT	Yes
NRC ISSUE	A) Detail on drvg. says to snug up tightly, however not followed. This is not a technical concern.