TIC

TOLEDO EDISON

RICHARD P. CROUSE
Vice President
Energy Supply
(419) 259-5221

Docket No. 50-346

License No. NPF-3

Serial No. 1-93

October 1, 1979

Mr. James G. Keppler
Regional Director, Region III
Office of Inspection & Enforcement
U.S. Nuclear Regulatory Commission
Glen Ellyn, Illinois 60137

Dear Mr. Keppler:

IE Bulletin No. 79-14, dated July 2, 1979, requested that we develop and implement an inspection program to verify that the Davis-Besse Nuclear Power Station Unit 1 seismic analysis input for safety related piping systems conforms to the actual field configuration. Attached is our response to Item 2 of Bulletin No. 79-14.

Our inspection of normally accessible safety related piping was completed September 21, 1979. Discrepancies found during the inspection are being reviewed in accordance with the guidance provided in Supplement Nos. 1 and 2 to IE Bulletin 79-14. Preliminary evaluations of walkdown discrepancies indicate that none adversely affect system operability. Detailed engineering reviews of the total field packages are currently 50% complete and support these preliminary evaluations. The remaining reviews are being completed and will be reported to you by a supplement to this report by October 19, 1979.

Based on completion of these engineering evaluations sustaining the present high degree of confidence in Davis-Besse's seismic analysis conforming to the as-built safety related systems, Toledo Edison will

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delay the inspection of normally inaccessible piping systems until the currently planned spring outage scheduled to begin March, 1980. The October 19, 1979 supplement will provide schedules for any detailed analytical work to be done to support the engineering reviews per item 4B of the bulletin.

Yours very truly,

RPC:CLM

Attachment

mj e/7-8

cc:
U.S. Nuclear Regulatory Commission
Office of Inspection & Enforcement
Division of Reactor Operations Inspection
Washington, D.C. 20005

U.S. Nuclear Regulatory Commission
Office of Nuclear Reactor Regulation
Division of Operating Reactors
Washington, D.C. 20555

Docket No. 50-346
License No. NPF-3
Serial No. 1-93
October 1, 1979

Seismic Analysis For As-Built
Safety Related Piping Systems

Response to NRC IE Bulletin No. 79-14

Davis-Besse Nuclear Power Station Unit 1

I. Introduction

NRC IE Bulletin 79-14, dated July 2, 1979, Revision 1, dated July 18, 1979, Supplement 1, dated August 15, 1979, and Supplement 2, dated September 7, 1979, require all power reactor facility licensees to verify that the seismic analysis of safety-related piping systems applies to the actual as-built configuration of systems. The action items identified in the bulletin apply to all safety-related piping, 2-1/2 inches in diameter and greater, and to Seismic Category I piping, regardless of size, which was analyzed by computer.

The response to Item 1 of the bulletin was submitted on August 1, 1979 (Serial No. 1-81). This report is a response to Item 2 of the bulletin, describing the inspection procedures and findings for normally accessible piping systems, as defined by the bulletin.

II. Action Item 2

For portions of systems which are normally accessible, inspect one system in each set of redundant systems and all non-redundant systems for conformance to the seismic analysis input information set forth in design documents. Include in the inspection: piping run geometry; support and restraint design, locations, function and clearance (including floor and wall penetration); embedments (excluding those covered in IE Bulletin 79-02); pipe attachments; valve and valve operator locations and weights (excluding those covered in IE Bulletin 79-04). Within 60 days of the date of this bulletin, submit a description of the results of this inspection.

III. Response

A. Summary and Conclusions

Inspection of all normally accessible safety-related piping, including both redundant trains, was performed as described in our response to Item 1 of the bulletin. The inspection teams began the walkdown inspections at the site on July 30, 1979 and completed the effort on September 21, 1979. Preliminary evaluation of the discrepancies discovered by the inspection team have been completed and the results indicate that none of these discrepancies adversely affect system operability. Detailed engineering reviews of the field packages are currently fifty percent (50%) complete and support the preliminary evaluations.

B. Inspection Packages

As described in the response to Action Item 1, all normally accessible safety-related piping systems were divided into sixty eight inspection packages. Where a system contained redundant trains, both trains were inspected at this time rather than delaying the inspection of one train until the Item 3 inspection effort. Included in each inspection package were the following items:

1. The current revision of the physical piping drawing and a checklist to verify the piping run geometry and the location of pipe fittings, tees, elbows, branch connections and concentrated masses, such as valves.

2. A valve drawing for each different valve on the piping drawing and a checklist to verify that the valve installed in the piping system is the valve indicated on the valve drawing and that the orientation of the valve and operator with respect to the pipe axis is as shown on the piping physical drawing.

3. A inspection checklist for each floor and wall penetration for checking the type of penetration closure (grout, rubber, etc.) against the design drawing. If the penetration was open, or filled with soft foam, the clearances were checked.

4. The pipe support detail drawing and a checklist for each pipe support and pipe anchor in the piping system was used to verify location, orientation (direction), type, proper size, and that the support installation is in accordance with the design document. Attachment of the support to the pipe was also checked. Proper installation of concrete expansion anchors has been verified under the response to NRC IE Bulletin No. 79-02 (Serial No. 1-78), and therefore, was not an inspection element in this effort.

C. Inspection Procedure

To ensure that all systems were uniformly inspected, an inspection procedure, PDP-2 entitled "Inspection Procedure for As-built Configuration of Nuclear Safety-Related Piping Components, IE Bulletin 79-14", containing guidelines, system tolerances, and component tolerances was prepared for use by the walkdown teams. The procedure outlines the steps to be followed, the piping components to be examined, the level of detail to be inspected during the walkdown inspection program and the means of inspecting each component. This procedure also includes the method for proper documentation and reporting of the discrepancies identified by the walkdown teams.

The NRC Office of Inspection and Enforcement, Region III, has audited the procedure for conformance with the bulletin and the field inspection activities were audited by Bechtel Project Quality Assurance to ensure compliance with the procedure.

D. Inspection Teams and Training

A team consisting of two qualified personnel was responsible for the inspection of all piping and supports contained in one inspection package. The average experience of the walkdown teams was fourteen years in the nuclear industry with no one person having less than three years. The field effort was directed by a Group Supervisor having sixteen years of nuclear industry experience and a Professional Engineer's License.

Extensive in-class and in-field training was given to all the walkdown team members by qualified and experienced pipe stress and piping engineers. The items covered in the training included elements to be checked, methods of checking, documentation of the findings, etc.

The qualifications, experience level and training for each member of the walkdown team is documented and available for review.

A pipe stress analyst was located in the field for the first three weeks of the inspection to answer any questions raised by the team personnel.

E. Inspection Summary

In the accessible portions of the facility 27,000 feet of piping and approximately 3000 pipe supports were inspected. Areas of high radiation and physical inaccessibility were not inspected. High-radiation areas will be included in the inspection required by Item No. 3 of IE Bulletin No. 79-14, if radiation levels permit. The inaccessible piping totaled 600 feet, approximately 2%, of the normally accessible safety-related piping. During the inspection, 779 inspection items (pipe supports and/or penetrations) were found to be covered by insulation and, as required by Supplement 1, a program of insulation removal, inspection, and re-insulation was initiated to inspect these items. Approximately 89% (690) were inspected. This inspection did not include portions of the Main Steam piping which was at operating temperature and therefore did not allow removal of insulation. This piping will be inspected as part of Item No. 3 of the bulletin.

F. Field Review

After each inspection package was walked down in the field, it was reviewed at the site for discrepancies (i.e., missing or extra supports, missing piping, missing or wrong valves, etc.). These discrepancies were evaluated at the site by either the stress analyst or the supervisor.

All noted discrepancies have been categorized by system on a Master Punch List. Each punch list item has been identified with the data package number prefix and a sequential number. Items requiring drawing changes or field rework were noted on a Nonconformance Report (NCR).

The completed inspection package was then forwarded to the Engineer (Bechtel Power Corporation) for review by a stress analyst to determine if the as-built conditions conform to the seismic input design documents.

G. Engineering Office Review

The stress analyst reviews the Master Punch List Items and the marked-up piping drawings for the following:

1. Pipe routing
2. Pipe diameter
3. Pipe Supports - location, type, function and direction

4. Penetrations - floor and wall
5. Valve orientation

Further, the analyst confirms if the weight of the valves used in the seismic analysis agrees with the valves supplied by the vendors. Discrepancies outside the allowable tolerances that are identified by the stress analyst will be included on a separate NCR generated by the Engineer.

The pipe support and the civil engineers responsible for pipe support and anchor design will compare any deficiencies identified on the checklists for these components against the original design.

H. Evaluation

If nonconformance(s) are found in a system, an evaluation of the significance of the nonconformance is performed in two phases involving an engineering judgement (field review) within two days followed by an engineering evaluation within thirty days (office review). If the thirty day evaluation shows that a nonconformance adversely affects the system operability, applicable technical specification action statements will then apply.

The extent of any reanalysis required and schedule for the reanalysis will be provided in the supplement to this report.

I. Disposition

After the final reanalysis, disposition of the nonconformance will be by one of the following methods:

1. Changes will be made on the drawing to reflect as-built conditions.

2. Changes will be made to calculations and reference documents to reflect as-built conditions.

3. Field modifications will be made to the components so that the component reflects the as designed condition.

IV. Conclusion

Inspection of all the normally accessible Seismic Category I piping was completed on September 21, 1979. A total of sixty eight inspection packages were used in the walkdown and have been forwarded to the Engineer for evaluation. Discrepancies identified by the detailed engineering reviews completed to date are listed in Attachment 1.

The preliminary evaluations required by IE Bulletin 79-14, Supplement 1, have been completed. Results of these evaluations indicate that operability of the systems will not be affected by the noted descrepancies. Detailed engineering reviews completed to date support these evaluations.

ATTACHMENT 1

Response to NRC IE Bulletin 79-14

The discrepancies identified by the field inspection effort and the detailed engineering reviews completed to date are listed on the following twenty four sheets.

The stress calculations are grouped by system and the description of all the discrepancies identified that appear in each stress calculation are tabulated accordingly.

If, for a given stress calculation, no discrepancies are noted, reanalysis of the calculation is not required.

If the discrepancies are of small significance and affect only a pipe support or anchor, the support itself is reanalyzed If found adequate, a drawing change may be required. This required reanalysis is indicated by a single asterisk (*).

If the discrepancies include moving of supports beyond the tolerance, a simple hand calculation to evaluate the affect on the pipe and adjacent supports is performed. This required reanalysis is indicated by two asterisks (**).

If the discrepancies include preliminary valve weights used in the analysis, different response spectra that must be considered, missing pipe supports, etc., the stress calculation will be given a complete reanalysis. This is indicated on the following sheets by three asterisks (***).

BY Kathy Lush DATE 9/30/79

CHECKED Chf DATE 9/30/79

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM AUXILIARY FEEDWATER

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES NO	DISCREPANCIES YES	IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS OR DWG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY UNAFFECTED	SYSTEM OPERABILITY AFFECTED	IF AFFECTED REFER TO REMARK NO.
1B	6			EBD-14-H1 Welds not in accordance with M-190-H06F-1400-8 EBD-14-H7 not in accordance with M-19[illegible]06F-1406-6						
			X	Evaluation			* Yes	X		
1C	6			EBD-14-H17A Welds not in accordance with M-190-H17A-1416B-4 EBD-14-H19A Welds not in accordance with M-190-H06F-1418A-4 EBD-14-H16 Spans Areas 7 and 8						
			X	Evaluation			*** Yes	X		
2B	6			EBD-14-H35 moved 14" South Envelope of areas 7 and 9 should be used in the analysis						
			X	Evaluation			*** Yes	X		
2C	6			Extra Hanger located on 6" - HBD-137 between Anchor A8 and HBD-137-H8 EBD-14-H90 moved 1'-9" South EBD-14-H74 moved 2'-10" East						
			X	Evaluation			** Yes	X		

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BY [illegible] DATE 2/20/79

CHECKED Cmf DATE

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM FEEDWATER

STRESS CALCULATIONS NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES NO	DISCREPANCIES YES	IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS OR DWG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABIL. UNAFFECTED	SYSTEM OPERABIL. AFFECTED	IF AFFECTED REFER TO REMARK NO.
42B	9			EBD-12-SH20 Structural Member not in accordance with C-619						
				EBD-12-SH21 Structural Member not in accordance with C-619						
				Extra Support UR-1 located between EBD-12-SR27 and EBD-12-SH13						
				12-SR30 moved 1'-8"S. 12-SR39 moved 12½"E. 12-SR40 moved 12½"E. 12-SR42 moved 1'-4 3/4"W.						
				The weight of Valve 15-1 used in seismic analysis differs from vendor supplied weight.						
			X	Evaluation			*** Yes	X		

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BY [illegible] DATE 9/20/79

CHECKED [illegible] DATE 9/30/79

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM HYDROGEN DILUTION

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES NO	DISCREPANCIES YES	IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS OR DWG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY UNAFFECTED	SYSTEM OPERABILITY AFFECTED	IF AFFECTED REFER TO REMARK NO.
119B	25		x	HBC-44-H5 Additional Load Attached HCB-49-H1 Welds not in accordance with Grinnell SK. B-4900 HCB-49-H2 Welds not in accordance with Grinnell SK. B-4901 HCB-44-H-10 moved 13" South HCB-44-H-7 moved 14½" South HCB-44-H-2 moved 15" Up Support HCB-44-H10 Spans areas 7 & 9 Envelope of these 2 areas should be considered in analysis. Evaluation			*** yes	x		
119D	25		x	HBC-74-H3 Welds not in accordance with Grinnell SK. 11-7402 HBC-74-H10 Welds not in accordance with Grinnell SK. 11-7409 HBC-74-H11 Welds not in accordance with Grinnell SK. 11-7410 HBC-74-H13 Welds not in accordance with Grinnell SK. 11-7412 HBC-74-H14 Welds not in accordance with Grinnell SK. 11-7413 HBC-74-H17 Welds not in accordance with Grinnell SK. 11-7416 Extra Support No. 2 located next HBC-74-H3 HBC-74-H18 moved 13" South HBC-74-H11 moved 20" South Evaluation			** yes	x		
119E	5		x	HBB-16-H1 Welds not in accordance with M-190-H29-1600-3 HBB-16-H2 moved 1'-10" North Evaluation			** yes	x		
119H	25		x	Extra Support No. 1 located next to HBC-73-H9 Evaluation		x	no	x		
119I	25	x		Evaluation	x		no	x		
119J	25		x	HBC-73-H4 Welds not in accordance with Grinnell SK. 11-7303 HBC-73-H7 Welds not in accordance with Grinnell SK. 11-7306 HBC-73-H8 Welds not in accordance with Grinnell SK. 11-7307 Evaluation			* yes	x		
119K	25		x	HBC-73-H6 Welds not in accordance with Grinnell SK. 11-7305 Evaluation			* yes	x		

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BY [illegible] DATE 9/27/79

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM QUENCH TANK DRAIN

STRESS CALCULATION NO. / WALKDOWN PACKAGE NO.	DISCREPANCIES NO	DISCREPANCIES YES	IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS OR DWG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY: D.AFFECTED	SYSTEM OPERABILITY: AFFECTED	SYSTEM OPERABILITY: IF AFFECTED REFER TO REMARK NO.
58A / 48		x	Envelope of 7 and 9 should be used in seismic analysis Evaluation			*** yes	x		
58C / 48		x	40 HCC-85-H5 moved 12½" down Envelope of 7 and 9 should be used in seismic analysis Evaluation			*** yes	x		
58D / 48		x	HSC-19-H5 Welds not in accordance with M-190-H40B-1904-2 HSC-19-H7 Welds not in accordance with M-190-H40B-1906-2 HSC-19-H8 Welds not in accordance with M-190-H40B-1907-1 HSC-19-H9 Welds not in accordance with M-190-H40B-1908-2 40 HSC 19-H2 moved 1'-8" West 40 HSC 19-H6 moved 13" West 40 HSC 19-H9 moved 14" West Evaluation			*** yes	x		

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BY [illegible] DATE 9/30/79

CHECKED [illegible] DATE 9/30/79

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM MAKEUP AND PURIFICATION

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES			OK AS IS OR DWG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY		
		NO	YES	IF YES, DESCRIPTION OF DISCREPANCIES				UNAFFECTED	AFFECTED	IF AFFECTED REFER TO REMARK NO.
81	27			31-CCC-2-H5 lowered 15½"						
			X	Evaluation			** Yes	X		

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BY [illegible] DATE 9/20/79

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM DECAY HEAT REMOVAL

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES NO	DISCREPANCIES YES	IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS OR DWG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY UNAFFECTED	SYSTEM OPERABILITY AFFECTED	IF AFFECTED REFER TO REMARK
32E	30 31			GCB-8-H2 Spring travel stops still installed GCB-7-H7 Structural member not in accordance with M-190-H33C-706A-3 GCB-7-H9 Configuration not in accordance with M-190-[illegible]C-708-3 GCB-8-H6 [illegible]ed 1' 10" south GCB-8-H5 moved 2' 4 5/16" south Weight of valves HV-DH9B and B97-1 used in the analysis differs from the vendor supplied weight. Envelope of areas 7 & 8 should be used in seismic analysis Evaluation			*** yes	x		
32G	31			Envelope of areas 7 and 9 should be used in analysis Evaluation			*** yes	x		
32H	31			Envelope of areas 7 and 9 should be used in analysis Evaluation			*** yes	x		

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BY [illegible] DATE 9/10/79

CHECKED Cmf DATE 9/30/79

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM LOW PRESSURE INJECTION

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES NO	DISCREPANCIES YES	IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS OR DWG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY UNAFFECTED	SYSTEM OPERABILITY AFFECTED	IF AFFECTED REFER TO REMARK NO.
18B	33			GCB-1-H5 moved 8 3/4" West GCB-1-H7 moved 8 3/4" West GCB-1-H11 moved 2'-2" West						
			X	Evaluation			** Yes	x		
18F	33			GCB-10-H17 moved 18 3/4" West GCB-10-H16 moved 12" West GCB-10-H10 moved 15" North Envelope of areas 7 & 8 and 9 should be used in the analysis						
			X	Evaluation			*** Yes	X		

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BY [illegible] DATE 9/20/79

CHECKED Cmf DATE 9/20/79

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM HIGH PRESSURE INJECTION

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES NO	DISCREPANCIES YES	IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS OR DWG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY UNAFFECTED	SYSTEM OPERABILITY AFFECTED	IF AFFECTED REFER TO REMARK NO.
53	32			Anchor A055 moved up 14½" CCB-19-H12 moved up 2'-1½" CCB-2-H18A moved up 10½" CCB-19-H9 moved 13½" east CCB-19-H7 moved 2'-6½" north CCB-19-H8 moved 18½" north Pipe CCB-19 (H7 & H8) was 7'-8½" long CCB-19-H6 moved 12½" east CCB-19-H5 moved 12 7/8" east Anchor A054 in area 8. Envelope of 7 & 8 needs to be used in analysis Weight of the valves B7-1 & B7-4 used in the seismic analysis differs from vendor supplied weight. Evaluation			*** Yes	X		
			X							
54	32			CCB-2-H17 Welds not in accordance with M-190-H33D-216-8 CCB-12-H1 Welds not in accordance with M-190-H33D-1200-2 CCB-19-H2 Configuration not in accordance with M-190-H33D-1901-8 CCV-19-H3 Welds not in accordance with M-190-H33D-1902-8 CCB-19-H3 moved 6 5/8" east New hanger H-2 installed 4'-11½" east of CCB-19-H1 CCB-12-H1 moved 14 3/8" west Support H3 spans joint. Envelope of 7 & 8 needs to be used in analysis Evaluation			*** Yes	X		
			X							
56A	32			CCB-2-H7 Structural Members not in accordance with M-190-H33D-206-5 CCB-2-H11 Welds not in accordance with M-190-H33D-210-6 Extra Hanger UH-1 located between Anchor A-46 and HCC-124-H4 Envelope of Areas 7 & 9 needs to be used in analysis CCB-2-H12 moved 12 3/4" North Evaluation			*** Yes	X		
			X							
56B1	32			CCB-2-H3 Welds not in accordance with M-190-H33D-202-5 Extra Hanger UH-3 located between CCB-2-H4 and CCB-2-H5 CCB-2-H4 moved 23½" north Anchor A-055 moved up 14½" Evaluation			** Yes	x		
			x							
56B2	32			The weight of the valve HV-HP2B used in the analysis differs from the vendor supplied weight. Envelope of Areas 7 & 9 should be used in the analysis. Evaluation			*** Yes	X		
			X							

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BY [illegible] DATE 9/28/79

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM HIGH PRESSURE INJECTION

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES NO	DISCREPANCIES YES	IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS OR DWG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY UNAFFECTED	SYSTEM OPERABILITY AFFECTED	IF AFFECTED REFER TO REMARK NO.
56C	32			HCC-91-H2 Welds not in accordance with M-190-H33D-9101-4 HCC-91-H3 Welds not in accordance with M-190-H33D-9102-10						
			X	Evaluation			* Yes	X		
56D	32			HCC-91-H9 Welds not in accordance with M-190-H33D-9108-7 HCC-91-H12 Welds not in accordance with M-190-H33D-9111-6 HCC-91-H9 moved 13 1/8" west HCC-91-H8 moved 13 1/8" west						
			X	Evaluation			** Yes	X		
56E	32			HCC-91-H13 Configuration not in accordance with M-190-H33D-9112-4 HCC-91-H17 Welds not in accordance with Grinnell 14-9116 HCC-91-H19 Welds not in accordance with M-190-H33D-9116-6 HCC-91-H21 Welds not in accordance with M-190-H33D-9120-6 HCC-91-H23 Welds not in accordance with M-190-H33D-9122-4 3"-HCC-91 El. 580'-3"(J-3) increased length by 1'-10 3/16"						
			X	Evaluation			** Yes	X		
56F	32			HCB-2-H36 Welds not in accordance with M-190-H33D-235-2 HCB-2-H38 Welds not in accordance with M-190-H33D-237-2 HCB-2-H39 Welds not in accordance with M-190-H33D-238-3 HCB-2-H40 Welds not in accordance with M-190-H33D-239-2 HCB-2-H41 Welds not in accordance with M-190-H33D-240-2 HCB-2-H43 Welds/Plates not in accordance with M-190-H33D-242-2 Minor modification from originally analyzed piping configuration. New Hanger installed 7" from east elbow at El. 559'-9" 4"HCC-124						
			x	Evaluation			** Yes	x		

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BY [illegible] DATE 9/30/79

CHECKED [illegible] DATE 9/31/79

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM CONTAINMENT SPRAY

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES NO	DISCREPANCIES YES	IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS OR DWG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY UNAFFECTED	SYSTEM OPERABILITY AFFECTED	SYSTEM OPERABILITY IF AFFECTED REFER TO REMARK NO.
19A	36			GCB-5-H3 Welds not in accordance with M-190-H34D-502-8 GCB-5-H4 Welds not in accordance with M-190-H34D-503-7 GCB-5-H33 moved 7" East Weight of valves B24-10 and B31-2 used in the analysis differ from vendor supplied weights. Evaluation			*** Yes	X		
			X							
19B	36			GCB-5-H7 Load-Carrying Member not in accordance with M-190-H34D-506-9 GCB-5-H9 Welds not in accordance with M-190-H34D-508-5 GCB-5-H35 not in accordance with M-190-H34D-534-1 HCC-38-H3 Structural Member not in accordance with M-190-H34D-3802-5 Extra Hanger U[illegible]-3 located between Anchor A80 and HCC-38-H5 Weight of the valves B24-11, B31-3 and B98-1 used in analysis differ from vendor supplied weight Envelope of Areas 7 & 9 need be considered in analysis Evaluation			*** Yes	X		
			X							
19C	36			HCC-38-H7 Clearances and additional loading not in accordance with SK-14-3806 HCC-38-H8 Welds not in accordance with SK-14-3807 HCC-38-H9 Configuration of additional Hanger not in accordance with SK-14-3808 HCC-38-H11 Structural Member size, shim size, and clearance not in accordance with M-190-H34D-3810-6 HCC-38-H12 Welds not in accordance with M-190-H34D-3811-4 HCC-38-H13 Additional loads attached to Hanger Anchor A-81 moved 1'-6" West HCC-38-E8 moved 1'-7" East Support HCC-38-H12 Spans Areas 7 and 9 Envelope of Areas 7 & 9 should be used in analysis Evaluation			*** Yes	X		
			X							

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BY [illegible] DATE 9/30/79

CHECKED [illegible] DATE 9/30/79

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM COMPONENT COOLING WATER

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES NO	DISCREPANCIES YES	IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS OR DWG/CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY UNAFFECTED	SYSTEM OPERABILITY AFFECTED	IF AFFECTED REFER TO REMARK NO.
20D	43	X		Evaluation	X		No	X		
55A	39		X	HBC-2-H1 Configuration not in accordance with M-190-H36A-200-9 Evaluation			** Yes	X		
55B	39		X	HBC-2-H3 Weld's not in accordance with M-190-H36A-202-7 Support 36HBC-2-H4 moved 1'-0" east extra clamp added (not included in the analysis) Evaluation			** Yes	X		
55C	39	X		Evaluation	X		No	X		
55D	39		X	HBC-27-H4 Welds not in accordance with M-190-H36A-2703-7 Valve F6-3 Welded directly to elbow Evaluation	X		* Yes	X		
61D	39 40 42		X	Anchor A-095 moved 2'-8¾ east HBC-52-H3 moved 3'-1" south Valve B41-4 is relocated beyond the problem Evaluation			*** Yes	X		
61J	41		X	Anchor A-398, Welds/Structural Members not in accordance with C-674 1-H14 moved 8" down 1-H17 moved 11½" South 1-H18 moved 9½" South Evaluation			** Yes	X		

1196 033

BY [illegible] DATE 9/28/79

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM COMPONENT COOLING WATER

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES NO	DISCREPANCIES YES	IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS OR DWG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY UNAFFECTED	SYSTEM OPERABILITY AFFECTED	IF AFFECTED REFER TO REMARK NO.
61K	41		X	Anchor A-399 Welds/Structural Members not in accordance with C-672 HBC-1-H7 Configuration/Structural Member not in accordance with M-190-H36C-106-5 HBC-1-H20 Configuration/Structural Member not in accordance with M-190-H36C-119-4 HBC-1-H21 Configuration/Structural Member/Weld not in accordance with M-190-H36C-120-3 1-H23 moved 1'-2½" South 1-H21 moved 8½" North-West Evaluation			** Yes	x		
61L	41		X	Anchor A-400 Welds/Structural Member not in accordance with C-675 HBC-1-H25 Structural Members not in accordance with M-190-H36C-124-3 HBC-1-H26 Structural Members/Welds not in accordance with M-190-H36C-125A-7 1-H25 moved 9" down 1-H26 moved 11 5/16" North-East Evaluation			** Yes	x		
61T	41		X	HBC-28-H11 Welds not in accordance with M-190-H36C-2810-4 Weight of the valve B81-2 used in the analysis differs from vendor supplied weight Evaluation			*** Yes	X		
61V	41		X	Valve B81-1 Orientation not in accordance with M-236C Weight of the valve B81-1 used in the analysis differs from vendor supplied weight Evaluation			*** Yes	X		
61W	41		X	HBC-80-H1 Configuration not in accordance with M-190-H36C-8000-6 Evaluation			* Yes	X		

1196 034

BY [illegible] DATE 9/28/79

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM SERVICE WATER

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES NO	DISCREPANCIES YES	IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS OR DWG/CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY UNAFFECTED	SYSTEM OPERABILITY AFFECTED	IF AFFECTED REFER TO REMARK NO.
51	51			Extra Hanger "HA" located between HBD-96-H4 & HBD-96-H5 Hanger HBD-96-H4 sketch calls for weld all-around, but welded at 2 of 4 sides. HBC-34-H41 moved 14 11/16" southwest along pipe Anchor A137 inaccessible Weight of the valves E3-14 and E3-15 used in the seismic analysis differs from vendor supplied weight.						
			X	Evaluation			*** Yes	X		
51B	51			Weight of the valves PSV-3962 and PSV-3963 in the seismic analysis differs from vendor supplied weigh.						
			X	Evaluation			*** Yes	X		
110A	55			HBC-37-H27 Welds not in accordance with M-190-H41L-3726-2 HBC-37-H34 Structural Member not in accordance with M-190-H41L-3733-4 HBC-37-H35 Welds not in accordance with M-190-H41L-3734-2 HBC-37-H36 Structural Member not in accordance with M-190-H41L-3735-4 HBC-37-H37 Welds not in accordance with M-190-H41L-3736-6 HBC-37-H40 Structural Members not in accordance with M-190-H41L-3739-4 HBC-37-H42 Welds not in accordance with M-190-H41L-3741-3 HBC-37-H43 Welds not in accordance with M-190-H41L-3742-4 37-H46 moved 1'-4" N. 37-H36 moved 1'-7" S. 37-H45 moved 1'-4 3/4" SE. 41 HBC-37 H39 Inaccessible						
			X	Evaluation			** Yes	X		
63B	53			41-HBC-42-H2 moved 18" East Weights of following valves used in analysis differs from vendor supplied weight: F4-9, F4-10, F4-11, F6-7, F6-8, F6-9, F6-10, TV1429, TV1434						
			X	Evaluation			*** Yes	X		

1196 035

BY [illegible] DATE 9/30/79

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM SUMP PUMP DISCHARGE

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES NO	DISCREPANCIES YES	IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS OR DWG/CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY UNAFFECTED	SYSTEM OPERABILITY AFFECTED	IF AFFECTED REFER TO REMARK NO.
96A	57			HSC-145-H36 Welds not in accord with M-190-H46B-14535-4 HSC-145-H37 Clearances not in accordance with M-190-H46B-14536-4 Additional loads attached HSC-145-H39 Structural Members not in accordance with M-190-H46B-14538-3 HSC-145-H46 Welds not in accordance with M-190-H46B-14545-4						
			X	Evaluation			* Yes	X		
96C				HSC-155-H10 Welds not in accordance with M-190-H46B-15509-1 HSC-155-H11 Welds not in accordance with M-190-H46B-15510-2 HSC-145-H4 moved 1'-6 7/8" north HSC-155-H12 moved up 1'-2½"						
			X	Evaluation			** Yes	X		
96D	57			HSC-145-H16 Welds not in accordance with M-190-H46B-14515-6 HSC-145-H19 Welds not in accordance with M-190-H46B-14518-3 HSC-145-H21 Welds not in accordance with M-190-H46B-14520-[illegible]						
			X	Evaluation			* Yes	X		
96E	57			HSC-155-H4 Additional loads attached Extra Hanger located between HSC-155-H3 and HSC-155-H4 Anchor A355 has moved to horizontal pipe from vertical position (2½" HSC-155). 8" from elbow toward north HSC-155-H3 moved 3'-5" east Anchor A-356 moved 2'-3" west						
			X	Evaluation			** Yes	X		
96F	57			HSC-155-H9 Configuration not in accordance with M-190-H46B-14508-5 HSC-155-H16 Welds not in accordance with M-190-H46B-15515-2 Anchor A356 moved 2'-3" west Pipe routing changed-elbows added-used to be 28'-5" @ El. 561'-3" now 23'-6" @ El. 561'-3" & 5'-0" @ 559'-3" HSC-155-H18 moved 1'-6" west HSC-155-H9 previously only hanger support-now rigid x support added Anchor A357 moved up 3'-7½"						
			X	Evaluation			** Yes	X		

1196 036

BY [illegible] DATE 9/20/79

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM AUXILIARY STEAM

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES NO	DISCREPANCIES YES	IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS OR DWG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY UNAFFECTED	SYSTEM OPERABILITY AFFECTED	IF AFFECTED REFER TO REMARK NO.
68C	21			GBD-12-H4 Welds not in accordance with M-190-H20B-1203-3 Restraint 20 GBD-12 H6 moved 2'-11" down Restraint 20 GBD-12 H3 moved 1'-11" north						
			X	Evaluation			** Yes	X		
77A	22			Extra Hanger located next to HBD-37-H77 HBD-44-H2 Configuration not in accordance with Grinnell SK 12-4401 HBD-44-H4 Welds not in accordance with M-190-H20D-4403-2 HBD-44-H11 Structural Member not in accordance with M-190-H20D-4410-3 Anchor A-238 moved 2'-0" east						
			X	Evaluation			** Yes	X		
77B	22			HBD-44-H8 Configuration not in accordance with M-190-H20D-4407-3 HBD-44-H9 additional load attached						
			X	Evaluation			* Yes	X		
77C	22									
		X		Evaluation	X		No	X		
77E	22			HBD-86-H3 Additional Load attached Support 20 HBD86-H4 moved 1'-4" east						
			X	Evaluation			** Yes	X		
77F	22			The weight of the valve HV-2073 used in the analysis differs from the vendor supplied weight						
			X	Evaluation			*** Yes	X		
77G	22									
		X		Evaluation	X		No	X		

1196 037

BY [illegible] DATE 9/30/79

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM AUXILIARY STEAM

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES NO	DISCREPANCIES YES	IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS OR DWG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY UNAFFECTED	SYSTEM OPERABILITY AFFECTED	IF AFFECTED REFER TO REMARK NO.
77H	22			Restra[illegible] 3D-86-H17 moved 1'-7 5/8" down Evaluation			** Yes	X		

1196 038

BY [illegible] DATE 9/30/79

CHECKED [illegible] DATE 9/30/79

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM STATION AND INSTRUMENT AIR

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES		IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS OR DWG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY		
		NO	YES					UNAFFECTED	AFFECTED	IF AFFECTED REFER TO REMARK NO.
128A	16			Seismic Boundary location not in accordance with M-215 Support 15 HCD-30 H1 not included in the analysis Support 15 HCD-30 H2 not included in the analysis			**			
			X	Evaluation			Yes	X		

1196 039

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM VENT HEADER

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES NO	DISCREPANCIES YES	IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS OR DWG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY UNAFFECTED	SYSTEM OPERABILITY AFFECTED	IF AFFECTED REFER TO REMARK NO.
124A	47			HSC-29-H17 Welds not in accordance with M-190-H38-2916-3 HSC-29-H20 Configuration not in accordance with M-190-H38-2919-2 HSC-29-H21 Configuration not in accordance with M-190-H38-2920-2 HSC-29-H22 Configuration not in accordance with M-190-H38-2921-2 HSC-29-H32 Welds not in accordance with M-190-H38-2931-2 HSC-29-H22 moved 12½" South HSC-29-H22 moved 19" South Length of pipe 3HSC-27 (3-8) shortened to 2'-3"			**			
			X	Evaluation			Yes	X		

1195 040

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM FIRE PROTECTION SYSTEM

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES NO	DISCREPANCIES YES	IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS OR DWG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY UNAFFECTED	SYSTEM OPERABILITY AFFECTED	SYSTEM OPERABILITY IF AFFECTED REFER TO REMARK NO.
118A	20			Valve FP-1 Orientation not in accordance with M-216F, rotated 30° East						
				Extra Support KBE-3-H2 is installed						
				Extra Support KBE-16-H14 is installed						
				Extra Support KBE-16-H15 is installed						
				The weight of the valve FP-47 used in the analysis differs from the vendor supplied weight			***			
			X	Evaluation			Yes	X		

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM SCREEN WASH AND CHLORINATION

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES NO	DISCREPANCIES YES	IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS OR DWG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY UNAFFECTED	SYSTEM OPERABILITY AFFECTED	IF AFFECTED REFER TO REMARK NO.
103A	14			Anchor A148 moved 1'-1½" East Evaluation	X		No	X		

1196 042

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM MAKEUP WATER TREATMENT

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES NO	DISCREPANCIES YES	IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS OR DWG/CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY UNAFFECTED	SYSTEM OPERABILITY AFFECTED	IF AFFECTED REFER TO REMARK NO.
102A	12			HSC-23-H1 Welds/Confirguration not in accordance with M-190-H10E-2300-3 HCB-23-H2 Configuration not in accordance with M-190-H10E-2301-5 HCB-23-H4 Structural Members not in accordance with M-190-H10E-2303-3 HCB-23-H6 Configuration not in accordance with M-190-H10E-2305-4 Envelope of Areas 8 and 9 should be used in analysis			***			
			X	Evaluation			Yes	X		
102B	13			Anchor A185 Configuration not in agreement with C-883 HCD-4-H73 Welds not in accordance with M-190-H10F-472-3 HCD-4-H53 Structural Member not in accordance with M-190-H10F-452-4 Extra Support No. 2 located next to HCD-4-H53 Extra Support No. 3 located between HCD-4-H50 and HCD-4-H51 Extra Support No. 4 located next to HCD-4-H47 Extra Support No. 5 located next to HCD-4-H55 Extra Support No. 6 located next to HCD-4-H57 Extra Support No. 7 located next to HCD-4-H60 Extra Support No. 8 located next to HCD-4-H61 Extra Support No. 9 located next to HCD-4-H63 Extra Support No. 10 located between HCD-4-H69 and HCD-4-H70 Extra Support No. 11 located next to HCD-4-H78 Extra Support No. 12 located between HCD-4-H80 and HCD-4-H81 Extra Support No. 13 located next to HCD-4-H62 Extra Support No. 14 located between HCD-4-H73 and HCD-4-H75 Anchor A-168 moved 3'-1" to East 10B HCD-4-H-76 moved 1'-1" to West 10B HCD-4-H-62 moved 13" to North TEE (E-3) moved 1'-3" to South 10B HCD-4-H-59 moved 1'-6" to East HCD-4-H61 Spans Seismic Joint			***			
			X	Evaluation			Yes	X		
102C	12			Anchor A389 Configuration not in agreement with C-897 Anchor A183 Configuration not in agreement with C877 HCD-4-H39 Structural Members not in agreement with M-190-H10E-438-3 HCD-4-H41 Welds/Configuration not in agreement with M-190-H10E-440-4 Valve A143-1 Orientation not in agreement with M-210E Envelope of Areas 8 and 9 should be used in the analysis			***			
			X	Evaluation			Yes	X		

1196 043

BY [illegible] DATE 9/30/79

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM MAKEUP WATER TREATMENT

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES NO	DISCREPANCIES YES	IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS OR DWG/CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY UNAFFECTED	SYSTEM OPERABILITY AFFECTED	IF AFFECTED REFER TO REMARK NO.
102D	12			HCC-50-H1 Welds not in accordance with M-190-H10E-5000-3						
				HCC-50-H2 Welds not in accordance with Grinnell SK 14-5001						
				HCC-50-H3 Configuration not in accordance with M-190-H10E-5002-4						
				HCC-50-H4 Welds not in accordance with M-190-H10E-5003-3						
				Supports located in areas 7 & 8 should be analyzed for displacement						
			X	Evaluation			*** Yes	X		
102E	10			HCC-50-H44 Welds not in accordance with M-190-H10C-5043-3						
				HCC-50-H10 Welds not in accordance with M-190-H10C-5009-3						
				HCC-50-H11 Welds not in accordance with M-190-H10C-5010-3						
				HCC-50-H12 Welds not in accordsnce with M-190-H10C-5011-5						
				HCC-50-H13 Welds not in accordance with M-190-H10C-5012-4						
				HCC-50-H15 Configuration/Structural Member not in accordance with M-190-H10C-5014-4						
				HCC-50-H17 Welds not in accordance with M-190-H10C-5016-5						
				HCC-50-H18 Welds not in accordance with M-190-H10C-5017-4						
				HCC-50-H19 Welds and clearances not in accordance with M-190-H10C-5018-4						
				HCC-50-H23 Welds not in accordance with M-190-H10C-5022-5						
				HCC-50-H25 Welds not in accordance with M-190-H10C-5024-5						
				HCC-50-H27 Welds not in accordance with M-190-H10C-5026-5						
				HCC-50-H28 Welds and attachment not in accordance with M-190-H10C-5027-5						
				HCC-50-H32 Welds not in accordance with M-190-H10C-5029-4						
				HCC-50-H33 - Not installed						
				HCC-50-H34 Welds not in accordance with M-190-H10C-5033-4						
				HCC-50-H35 Welds not in accordance with M-190-H10C-5034-5						
				HCC-50-H36 Welds not in accordance with M-190-H10C-5035-4						
				HCC-50-H37 Welds not in accordance with M-190-H10C-5036-7						
				HCC-50-H39 Welds not in accordance with M-190-H10C-5038-5						
				HCC-50-H40 Structural Members not in accordance with M-190-H10C-5039-5						
				HCC-50-H42 Welds not in accordance with M-190-H10C-5041-6						
				HCC-50-H43 Welds not in accordance with M-190-H10C-5042-5						
				Extra Hanger UH-1 located next to HCC-50-H9						
				Extra Hanger UH-2 located between HCC-50-H10 and HCC-50-H11						
				Extra Hanger UH-3 located between HCC-50-H11 and HCC-50-H12						
				Extra Hanger UH-4 located next to HCC-50-H19						
				Extra Hanger UH-5 located next to HCC-50-H20						
				Extra Hanger UH-6 located next to HCC-50-H31						

BY [illegible] DATE 9/20/79

CHECKED [illegible] DATE 9/20/79

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM MAKEUP WATER TREATMENT

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES NO	DISCREPANCIES YES	IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS OR DWG/CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY UNAFFECTED	SYSTEM OPERABILITY AFFECTED	IF AFFECTED REFER TO REMARK NO.
102E Cont.	10			Extra Hanger UH-7 located between HCC-50-H43 and HCC-5[illegible]44 Extra Hanger UH-8 located between HCC-50-H47 and Anch[illegible]84 HCC-50-H9 moved 1'-6 5/8" West HCC-50-H10 moved 1'-8 3/8" West HCC-50-H13 moved 2'-9" South HCC-50-H18 moved 1'-7 3/4" up HCC-50-H21 moved 1'-7 7/8" East HCC-50-H30 moved 13" East HCC-50-H33 is missing HCC-50-H42 moved 12 7/8 North HCC-50-H43 moved 14 1/8" South HCC-50-H44 moved 12½" North HCC-50-H45 moved 2'-2½" North HCC-50-H46 moved 2'-2 1/8" West Support HCC-50-H[illegible]1 Spans Seismic Joint						
			X	Evaluation			*** Yes	X		
102F	10									
		X		Evaluation	X		No	X		
102G	11			Anchor A[illegible]23 Configuration/Structural Members not in accordance with C-831 Anchor A424 Structural Members not in accordance with C-837 HCC-51-H102 Welds not in accordance with M-190-H10D-A5101-2 HCC-51-H103 Welds not in accordance with M-190-H10D-A5102-2 HCC-51-H104 Welds not in accordance with M-190-H10D-A5103-3 10B HCC-51-H103 moved 1'-2 1/8" to West Anchor A424 moved 2'-3½" to North-West						
			X	Evaluation			** Yes	X		
102H	11			HCC-69-H104 Welds not in accordance with M-190-H10D-A6903-2 HCC-69-H105 Welds not in accordance with M-190-H10D-A6904-3 Extra Hanger UH-1 located next to HCC-69-H101 10B-HCC-69-H102 moved 1'-1" to West 10B-HCC-69-H104 moved 1'-0 3/4" to South Anchor A-426 moved 1'-4 5/8" to North-West						
			X	Evaluation			** Yes	X		
102I	12			Anchor A427 Structural Members not in accordance with C-657 HCC-40-H103 Configuration not in accordance with M-190-H10E-A4002-1 Anchor A-428 moved 1'-6½ North-West						
			X	Evaluation			** Yes	X		

1196 045

BY [illegible] DATE 9/30/79

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM MAKEUP WATER TREATMENT

STRESS CALCULATION NO.	WALDON PACKAGE NO.	DISCREPANCIES NO	DISCREPANCIES YES	IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS OR DWG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY UNAFFECTED	SYSTEM OPERABILITY AFFECTED	IF AFFECTED REFER TO REMARK NO.
102J	13			Anchor A430 Structural Member not in accordance with C-837 Extra Support No. 1 located between HCC-53-H101 and Anchor A429 10B-HCC-53-H104 moved 1'-4" down Anchor A430 moved 1'-11" North-West Evaluation			** Yes	X		
			X							
102K	13			10B HCC-53-H-111 moved 1'-11" to West 10B HCC-53-H-112 moved 1'-1" to East 10B HCC-53-H-116 moved 1'-8 1/8" to East 10B HCC-53-H-126 moved 2'-2 9/16" North-East HCC-53-H115 Spans Seismic Joint Envelope of Areas 7,8, & 9 need be considered Evaluation			*** Yes	X		
			X							

1196 046