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TOLEDO EDISON

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

Docket No. 50-346
License No. NPF-3
Serial No. 1-95

October 19, 1979

Mr. James G. Keppler
Regional Director, Region III
Office of Inspection & Enforcement
U.S. Nuclear Regulatory Commission
799 Roosevelt Road
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 of safety related piping systems conforms to the actual field conditions.

Our inspection of normally accessible safety related piping was completed September 21, 1979. Discrepancies found during the inspection were reviewed in accordance with the guidance provided in Supplement Nos. 1 and 2 to IE Bulletin 79-14. On October 1, 1979 we submitted to you the results of our detailed engineering reviews for approximately 50% of the field inspection packages. Attached is our detailed engineering reviews for all remaining field inspection packages. These reviews indicate that none of the discrepancies found during the inspection of accessible safety related piping affect system operability. Our schedule for follow-on analytical work required under Item 4B of the bulletin to support the results is also attached.

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Based on favorable results of the completed detailed engineering reviews of our inspection of accessible safety related piping, we have established a high degree of confidence that Davis-Besse's seismic analysis acceptably conforms to the as-built safety related systems. Therefore, as proposed in our letter of August 1, 1979 (Serial No. 1-81), Toledo Edison will delay the inspection of normally inaccessible piping systems until the spring outage currently scheduled to begin March 1980.

Yours very truly,

RPC:CLM

Attachments

bj a/7

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. 1-95
October 19, 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). A partial response to Item 2 of the bulletin, describing the inspection procedures and discrepancies reviewed prior to September 30, 1979 for normally accessible piping systems, as defined by the bulletin, was submitted on October 1, 1979 (Serial No. 1-93). This report provides a complete response to Item 2 of the bulletin and for the normally accessible piping that has been inspected, it provides a response to Item 4 of 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

Inspection of all normally accessible safety-related piping as defined in the bulletin, 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 walkdown inspection packages have been completed. Discrepancies identified by both the inspection team and the stress analyst have been tabulated and are shown in Attachment 1. This tabulation includes the discrepancies that were previously submitted on October 1, 1979. Detailed engineering review of all discrepancies are complete and support the preliminary evaluation that the operability of safety-related systems is unaffected by these discrepancies.

IV. Action Item 4

If nonconformances are identified:

A. Evaluate the effect of the nonconformance upon system operability under specified earthquake loadings and comply with applicable action statements in your technical specifications including prompt reporting.

B. Submit an evaluation of identified nonconformances on the validity of piping and support analyses as described in the Final Safety Analysis Report (FSAR) or other NRC approved documents. Where you determine that reanalysis is necessary, submit your schedule for: (i) completing the reanalysis, (ii) comparisons of the results to FSAR or other NRC approved acceptance criteria and (iii) submitting descriptions of the results of reanalysis.

C. In lieu of B, submit a schedule for correcting nonconforming systems so that they conform to the design documents. Also submit a description of the work required to establish conformance.

D. Revise documents to reflect the as-built conditions in plant, and describe measures which are in effect which provide assurance that future modifications of piping systems, including their supports, will be reflected in a timely manner in design documents and the seismic analysis.

V. Response

The discrepancies identified by the field inspection and the stress analyst are arranged in Attachment 1 by system, stress calculation number and pipe support or anchor number. As shown in the attachment, an engineering review has been made as to what kind of reanalysis, if any, is required to make the as-built configuration of the piping and supporting systems agree with the design.

This reanalysis may consist of a structural calculation for a pipe support or anchor, a hand calculation to evaluate the affect of a relocated support, or a complete reanalysis of a piping system. After the required reanalysis is complete, the determination will be made as to the necessity of any field rework.

If at any time, this reanalysis results in a conclusion that a deficiency exists in either the piping or its supporting system that affects system operability, applicable technical specification action will be taken.

The earliest projected completion date for reanalysis of the piping and support systems is February 1, 1980. A report on the results of the reanalysis is presently scheduled for mid-February, 1980. The current completion date for revising engineering documents to reflect the as-built conditions in the station is March 1, 1980.

To assure that modifications are reflected in the engineering documents, all modifications to safety-related piping systems, including their supports, are made only by a Facility Change Request (FCR). Prior to the start of any physical work, the FCR is forwarded to engineering for detailed design. The required engineering is then performed, including: field routing of piping, field location of supports, stress analysis of piping, design and/or revisions to supports, and issue of drawings for construction. Once the rework is completed at the site, engineering documents are updated to reflect the as-built configuration.

ATTACHMENT 1

Response to NRC IE Bulletin 79-14

The discrepancies identified by the field inspection effort and the detailed engineering reviews are listed on the attached 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 a discrepancy is of small significance and affects 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 a discrepancy includes location of supports beyond the established tolerance, a simple hand calculation to evaluate the affect on the pipe and adjacent supports will be performed. This required reanalysis is indicated by two asterisks (**).

If a discrepancy includes use of preliminary valve weights in the analysis, different response spectra to be considered, missing piping supports, etc., the stress calculation will require a complete reanalysis. This is indicated on the following sheets by three asterisks (***).

BY [illegible] DATE 10/13/79

CHECKED [illegible] DATE 10/13/79

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM MAIN 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.
41A	3			EBD-19-H17 Welds not in accordance with M-190-H03F-1916-6 EBD-19-H28 Welds not in accordance with M-190-H03F-1927-6 EBD-19-H30 Welds/configuration not in accordance with M-190-H03F-1929-7 Anchor A221 moved 1'-1" towards West 3A EBD-19 H34 moved 1'-6" towards North HC, HB, HA, the supports are added 2A EBD-19 H14 moved 1'-11" towards West 3A EBD-19 H9 moved 14" towards East 3A EBD-19 H10 moved 16" towards East Evaluation			** Yes	X		
			X							
40A	4,5			EBB-2-H29 Welds not in accordance with M-190-H03J-228-3 EBD-19-H49 moved 13½" South EBD-19-H136 moved 1'-0" up (was below floor) 19-H39 moved 5'-1½" down A309 moved 1'-2" West 2-H27 moved 2'-2" South Weight of valves B62-2 and B62-3 used in the analysis differs from the vendor supplied weights Evaluation			*** Yes	X		
			X							
40B	3 4			EBD-19-H55 Plate size not shown on M-190-H03H-1954-3 EBD-19-H56 Plate size not shown on M-190-H03H-1954-4 EBD-19-H142 Welds not in accordance with M-190-H03H-A1941-2 EBD-19-H154 moved West 16" EBD-19-H147 not installed EBD-19-H145 moved 2'-4" West and 1'-2" South 3A EBD-19-H72 moved 19" towards West Evaluation			** Yes	X		
			X							
40C	4			Anchor A-294 pipe notch cut into Support for drain line Anchor A-372 pipe notch cut into Support for drain line EBD-102-H8 Welds not in accordance with M-190-H03H-10207-6 EBD-102-H6 moved 13 1/16" East EBD-102-H9 & H10 in accessible Evaluation			** Yes	X		
			X							

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

BY Kaley Funk DATE 10/18/79

CHECKED Cuf DATE 10/19/79

SYSTEM MAIN 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.
120B	5		X	Anchor A-2 not installed Evaluation			*** Yes	X		
120D	5	X		No Discrepancies Evaluation	X		No	X		
120E	5		X	EBb-2-H36 Structural Member not in accordance with M-190-H03J-235-2 EBD-19-H80 Welds not in accordance with M-190-H03J-1979-5 Extra Support H "A" located between EBB-2-H18 and EBB-2-H19 Anchor A-2 not installed Weights of valve B62-4 used in analysis differs from vendor supplied weight Evaluation			*** Yes	X		
120G	5		X	EBD-19-H105 Structural Member not in accordance with M-190-H03J-A1904-6 EBD-19-H107 Structural Member not in accordance with M-190-H03J-A1906-4 EBD-19-H118 Structural Member not in accordance with M-190-H03J-A1917-5 19-H116 moved 1'-3" South 19-H100 moved 1'-3" East A-309 moved 1'-2" West Pipe Supports EBD-19-H104 and H105 span the Seismic joint Evaluation			*** Yes	X		
120H	5		X	EBD-19-H82 Configuration/Structural Member not in accordance with M-190-H03J-235-2 EBD-19-H98 Welds not in accordance with M-190-H03J-1997-6 19-H91 moved 1'-4½" Northeast Supports in areas 7 & 8 Envelope need be [illegible]d Evaluation			*** Yes	X		
120A	5		X	EBB-2-H7A Welds not in accordance with M-190-H03J-206A-1 Support 2-H8 moved 2'-0" South Support 2-H6 moved 3'-7" South Support 2-H6A moved 1'-3" South Evaluation			** Yes	X		

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BY [illegible] DATE 1/19/79

CHECKED [illegible] DATE 10/13/79

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM MAIN STEAM

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES NO	DISCREPANCIES YES	IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS PER ENGR/CALC CHGS ISSUED	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY UNAFFECTED	SYSTEM OPERABILITY AFFECTED	IF AFFECTED REFER TO REMARK NO.
120C	5		X	EBB-2-H11 Weld not in accordance with M-190-[illegible]03J-210-5 Evaluation			* Yes	X		
10A	1		X	SR-11 moved 4'-2½" South SR-10 moved 3'-6" East (Snubber only) Weight of the valves B109-2 and FV-101 used in the analysis differs from vendor supplied weight Evaluation			*** Yes	X		
10B	2		X	EBB-1-SR-18 snubber eyelet pads are undersized EBB-1-SEC-Y braced located on opposite side of support Restraint (anchor) at shield building wall SR-18 moved 3'-8 1/8" East Valve B109-1 (Valve weight) Valve FV-100 (Valve weight) Weight of the Valves B109-1 and FV-100 used in the analysis differs from vendor supplied weight Evaluation			*** Yes	X		
120F	5		X	EBD-19-H125 weld not in accordance with M-190-H03J4-A1924 EBD-19-H128 weld not in accordance with M-190-H03J4-A1927 Anchor A221 moved 1'-1" towards West 19-H-124 moved 1'-2" South Weight of valve B62-1, used in analysis differs from vendor supplied weight Evaluation			* Yes	X		

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BY Kaly Link DATE 9/20/79

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM AUXILIARY FEEDWATER

STRESS CALCULATION NO.	WELDING PACKAGE NO.	DISCREPANCIES NO	DISCREPANCIES YES	IF YES, DESCRIPTION OF DISCREPANCIES	DR AS BUILT 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			HBD-14-H1 Welds not in accordance with M-190-H06F-1400-8 HBD-14-H7 not in accordance with M-190-H06F-1406-6 Evaluation			* Yes	X		
			X							
1C	6			HBD-14-H17A Welds not in accordance with M-190-H17A-1416B-4 HBD-14-H19A Welds not in accordance with M-190-H06F-1418A-4 HBD-14-H16 Spans Areas 7 and 8 Evaluation			*** Yes	X		
			X							
2B	6			HBD-14-H35 moved 14" South Envelope of areas 7 and 9 should be used in the analysis Evaluation			*** Yes	X		
			X							
2C	6			Extra Hanger located on 6" - HBD-137 between Anchor A8 and HBD-137-H8 HBD-14-H90 moved 1'-9" South HBD-14-H74 moved 2'-10" East Evaluation			** Yes	X		
			X							
23A	7			Evaluation	X		No			
		X								
23B	7			Evaluation	X		No			
		X								
23C	7			HBD-272-H5 Not in accordance with M-190-H06G-27204-7 Extra Support UH-1 located between HBD-22-H5 and HBD-22-H8 HBD-272-H3 moved 14 3/4" down Weight of valve A25-1 used in analysis does not agree with vendor supplied weight Evaluation			*** Yes	X		
			X							

BY [illegible] DATE 10/12/79

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM STEAM GENERATOR DRAINS

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES NO	DISCREPANCIES YES	IF YES, DESCRIPTION OF DISCREPANCIES	ON AS IS OR DWG/ CALC CHGS RFQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY UNAFFECTED	SYSTEM OPERABILITY AFFECTED	IF AFFECTED REFER TO REMARK NO.
64I	8		X	Anchor A021 moved 8" West and 13½" Down EBD-61-H41 moved down 2'-0" EBD-61-H43 moved 2'-0" West EBD-61-H42 moved 18" West EBD-61-H47 moved 15" South Evaluation			** Yes	X		
64A	8		X	Weight of valve B15-2, used in the analysis differs from vendor supplied weight Envelope of areas 7 and 9 should be considered in seismic analysis Evaluation			*** Yes	X		
64B	8		X	EBD-61-H-6 moved 2'-3" North EBD-61-H53 moved 4'0" East Seismic curves for area 8 should be used in analysis Evaluation			*** Yes	X		
64C	8		X	EBD-61-H13 configuration/clearances not in accordance with M-190-H073-6112-6 EBD-61-H9 moved 1'-7" West EBD-61-H11 moved 3'-3" West EBD-61-H12 moved 2'-0" East EBD-61-H13 moved 2'-0" East Evaluation			** Yes	X		
64D	8		X	Anchor A-16 moved 13-1/8" North Valve A85-7 (valve weight) Valve B15-1 (valve weight) Seismic Joint Mismatch Weight of valves A85-7 and B15-1 used in analysis differs from vendor supplied weight. Envelope of areas 9 and 7 should be used in seismic analysis Evaluation			*** Yes	X		
64E	8		X	Extra hanger located between EBD-61-H20 and EBD-61-H66 Anchor A016 moved North 13-1/8" Envelope of areas 7 and 9 should be used in seismic analysis Evaluation			*** Yes	X		
64F	8		X	Anchor A018 moved 1'-11" East Evaluation			** Yes	X		
64H	8		X	Length of pipe increased by 3'-6" Anchor A020 moved 1'-11" East Anchor A021 moved 8" West and [illegible] Evaluation			** Yes	X		

BY [illegible] DATE 9/20/79

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM 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.
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. Evaluation			*** Yes	X		
42D	9			Anchor A-171 moved 5'1 3/4" East Weight of valve A15-2 differs from vendor supplied weight Evaluation			*** Yes	X		

BY [illegible] DATE 9/20/79

CHECKED [illegible] DATE 9/20/79

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.
119E	25			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 14¼" 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			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	25			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			Extra Support No. 1 located next to HBC-73-H9 Evaluation		x	no	x		
119I	25	x		Evaluation	x		no	x		
119J	25			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			HBC-73-H6 Welds not in accordance with Grinnell SK. 11-7305 Evaluation			* yes	x		

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BY [signature] DATE 10/13/79

CHECKED [signature] DATE 10/13/79

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM REACTOR COOLANT DRAIN AND GASEOUS RADWASTE

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.
78A	49		X	HBC-33-H5 Configuration not in accordance with M-190-H40C-3304-2 HSC-42-H1 welds not in accordance with M-190-H40C-4200-8 HSC-42-H2 welds not in accordance with M-190-H40C-4201-8 HSC-42-H26 welds not in accordance with M-190-H40C-4225-5 HSC-4-2H29 configuration not in accordance with M-190-H40C-4228-4 HSC-4-2-H32 welds not in accordance with M-190-H40C-4231-7 HSC-42-H433 configuration not in accordance with M-190-H40C-4234-4 HSC-42-H36 welds not in accordance with M-190-H40C-4235-6 Extra support UH-1 located next to HSC-42-H37 Extra support UH-2 between HSC-42-H33 and HSC-42-H34 HCB-42-H27 moved 15" East HCB-42-H29 moved 12 7/8" West HCB-42-H28 moved 15½" East HCB-42-H33 moved 10'-9" South HCB-42-H34 moved 16" South Weight of valve HV1119B used in analysis differs from vendor supplied weight Envelope of 7 and 9 should be used in analysis Evaluation			*** Yes	X		
78B	45 49		X	HSC-84-H2 welds not in accordance with M-190-H40C-8401-9 HSC-42-H9 welds not in accordance with M-190-H40C-4208-5 HSC-42-H11 welds not in accordance with M-190-H40C-4213-7 HSC-42-H13 configuration/welds not in accordance with M-190-H40C-4212-6 Extra support located between HSC-42-H1 and HSC-42-H18 Extra support located between HSC-131-H4 and HSC-131-H5 HSC-130-H1 moved 12 7/8" East HSC-131-H3 moved 14 5/8" West Weight of valves PSV-1801 and B65-36 used in analysis differs from vendor supplied weight Evaluation			*** Yes	X		
78C	49	X		Evaluation	X		No	X		

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

BY [illegible] DATE 9/24/79

CHECKED [illegible] DATE 9/30/79

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 UNAFFECTED	SYSTEM OPERABILITY AFFECTED	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-B40B-1904-2 HSC-19-H7 Welds not in accordance with M-190-B40B-1906-2 HSC-19-H8 Welds not in accordance with M-190-B40B-1907-1 HSC-19-H9 Welds not in accordance with M-190-B40B-1908-2 40 HSC 19-H2 moved 11'-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 9/20/79

CHECKED [illegible] DATE 9/20/79 10/3/79

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM MAKEUP AND PURIFICATION

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.
81	27			31-HCC-2-H5 lowered 15½"						
			X	Evaluation			** Yes	X		
69B	28			HCC-36-H1 Welds not in accordance with M-190-H31D-3600-4						
				HCC-36-H7 Welds not in accordance with M-190-H31D-3606-4						
				HCC-36-H11 Configuration/Structural Members not in accordance with M-190-H31D-3610-7						
				HCC-36-H12 Structural Members not in accordance with M-190-H31D-3611-6						
				HCC-36-H13 Configuration/Structural Members not in accordance with M-190-H31D-3612-5						
				HCC-36-H14 Structural Members not in accordance with M-190-H31D-3613-5						
				HCC-36-H16 Structural Members not in accordance with M-190-H31D-3615-3						
				HCC-36-H19 Structural Members not in accordance with M-190-H31D-3618-10						
				HCC-36-H12 moved 1'-4" up						
				HCC-36-H11 moved 13" up S.A.						
				Support HCC-36-H5 spans Seismic joint						
			X	Evaluation			*** Yes	X		
69C	27 28			CCB-13-H1 Structural Member not in accordance with M-190-H31D-1300-5						
				CCB-13-H2 Configuration not in accordance with M-190-H31D-1301-5						
				CCB-13-H4 Welds not in accordance with M-190-H31D-1303-8						
				CCB-13-H5 Welds not in accordance with M-190-H31D-1304-8						
				CCB-13-H11 Welds not in accordance with M-190-H31D-1510-4						
				CCB-13-H26 Welds not in accordance with M-190-H31C-1324-1						
				CCB-13-H28 Welds not in accordance with M-190-H31C-1326-2						
				Extra Support UH-1 located next to CCB-13-H27						
				Extra Support UH-2 located next to CCB-15-H28						
				Anchor A-368 moved 3'-4" West						
				CCB-13-H25 moved 1'-0" South then 1'-2½" East along pipe around elbow						
				CCB-13-H11 moved 12½" East						
				Weight of the valve B11-3 used in Seismic analysis differs from vendor supplied weight.						
				Pipe Supports 33 CCB13-H4 and 35 spans the seismic joint between areas 7 and 8						
			X	Evaluation			*** Yes	X		

IE BULLETIN 79-1[illegible] DESCRIPTION OF INSPECTION RESULTS

BY kalyan DATE 9/13/79

CHECKED Cal DATE 10/13/79

SYSTEM MAKEUP AND PURIFICATION

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES NO	DISCREPANCIES YES	IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS OR ENG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY UNAFFECTED	SYSTEM OPERABILITY AFFECTED	IF AFFECTED REFER TO REMARK NO.
69D	28			Extra Support H "A" located between Anchor A368 and CCB-15-H5 Extra Support H "B" lmted between CCB-15-H5 and CCB-15-H6 Anchor A368 moved 3'-4" West 31-CCB-15-H5 moved 3'-5" East 31-CCB-15-H8 inaccessible for inspection 31-CCB-15-H9 inaccessible for inspection						
			X	Evaluation			** Yes	X		
69E	28			Extra Hanger H "C" located between Anchor A68 and HCC-36-H21 31-HCC-36-H22 moved 17" East 31-HCC-36-H24 inaccessible for inspection 31-HCC-36-H25 inaccessible for inspection						
			X	Evaluation			** Yes	X		
80C	26			(SA) 31-HCC-35-H103, H104 not accessible						
			X	Evaluation			** Yes	X		
70	26			31-CCB-9-H1 located in Area 9						
			X	Evaluation			*** Yes	X		
70A	26			HCC-35-H-13 not installed Anchor A-166 structural members not in accordance with C-882 HCC-1-H3 welds/strucutural members not in accordance with M-190-H31B-102-7 HCC-1-H5 welds not in accordance with M-190-H31B-109-5 HSC-66-H8 welds not in accordance with M-190-H31B-6614-6 HSC-66-H15 welds/clearances not in accordance with M-190-H31B-6614-6 HSC-66-H23 clearance not in accordance with M-190-H31B-6622-2 31-HSC-66-H8 moved 13" East 31-HSC-66-H14 moved 13" West 31-HSC-66-H21 moved 13" East 31-HSC-66-H23 moved 23" East 31-HSC-66-H22 no hanger drawing not on math model Anchor A127 no hanger drawing 16 3/4" East 2 Hangers shown near A127 not on strass iso						
			X	Evaluation			** Yes	X		

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BY Walsh DATE 10/13/79

CHECKED Chuf DATE 10/13/79

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM MAKEUP AND PURIFICATION

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.
69A	26 28 32			HSC-66-H16 welds not in accordance with M-190-H31B-6619-7						
				HSC-66-H26 strucutural member not in accordance with M-190-H31B-6625-2						
				HCC-5-H5 welds not in accordance with M-190-H31D-504-3						
				HCC-5-H7 welds not in accordance with M-190-H31D-506-2						
				HSC-62-H1 welds not in accordance with M-190-H31D-6200-2						
				HSC-62-H2 configuration not in accordance with M-190-H31D-6201-3						
				Extra hanger UR-1 located between anchor A-4 and HCC-124-H4						
				HSC-71-H3 structural member not in accordance with M-190-H40C-7102-3						
				HSC-71-H4 welds not in accordance with M-190-H40C-7103-5						
				HSC-71-H6 welds/configuration not in accordance with M-190-H40C-7105-3						
				HSC-71-H8 snubber piston position not in accordance with M-190-H40C-7107-4						
				HSC-71-H10 snubber piston position not in accordance with M-190-H40C-7109-1						
				HSC-71-H13 configuration not in accordance with M-190-H40C-7112-2						
				HSC-5-H6 moved 15½" North on branch line						
				Weight of the valve PSV-1893 used in analysis differs from vendor supplied weight						
				Envelope of areas 7 and 8 should be used in analysis			*** Yes		X	
			X	Evaluation						

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

BY [illegible] DATE 9/30/79

CHECKED [illegible] DATE 9/30/79

SYSTEM DECAY HEAT REMOVAL

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES NO	DISCREPANCIES YES	IF YES, DESCRIPTION OF DISCREPANCIES	OR 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.
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-H33C-708-3 GCB-8-H6 moved 1' 10" south GCB-8-H5 moved 2' 4 5/16" south Weight of valves EV-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						
			x	Evaluation			*** yes	x		
32G	31			Envelope of areas 7 and 9 should be used in analysis						
			x	Evaluation			*** yes	x		
32H	31			Envelope of areas 7 and 9 should be used in analysis						
			x	Evaluation			*** yes	x		

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

BY _____ DATE 9/20/79
CHECKED _____ DATE 9/24/79 10/15/79

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		
45B	33			The weight of Valve B56-5 used in the seismic analysis differs from vendor supplied weight. Envelope of areas 8 and 9 should be in the analysis.						
			X	Evaluation			*** Yes	X		
45C	33			HCB-36-H8 moved 13½" East HCB-36-H6 moved 3'-7½" North Anchor A-067 moved 24" down Support 33B-HCB36-H7 spans areas 7 and 8						
			X	Evaluation			*** Yes	X		
80A	26 33 37			HCC-35-H3 welds not in accordance with M-190-H31B-3502-7 HCC-35-H5 Clearances not in accordance with M-190-H31B-3504-4 HCC-35-H19 Not installed HCC-35-H22 Welds not in accordance with M-190-H31B-3521-5 GCB-1-H36 not installed Extra Support located next to GCB-1-H1 33 B-HCC-36-H12 includes $\Delta x = 0$ not in stress iso. GCB-1-H2 moved 12½" down GCB-1-H32 moved 13½" North HCC-34-H4 moved 21" up HCC-34-H2 moved 21 3/4" up Weight of the following valves used in seismic analysis differs from vendor supplied weight: B135-1,2; HV-DH 13A, 13B, & 14B						
			X	Evaluation			*** Yes			

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BY [illegible] DATE 9/20/79

CHECKED Conf 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 B&G/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY UNAFFECTED	SYSTEM OPERABILITY AFFECTED	IF AFFECTED REFER TO REMARK NO.
53	32		X	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		
54	32		X	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		
56A	32		X	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		
56B1	32		X	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		
56B2	32		X	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		

BY [illegible] DATE 9/2/79 10/5/79

CHECKE Chf DATE 9/20/79 10/18/79

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.
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		
56B3	28 32			CCB-3-H1 Configuration not in accordance with M-190-H31D-300-1 CCB-3-H2 Welds not in accordance with M-190-H31D-301-5 CCB-3-H3 Welds not in accordance with M-190-H31D-302-3 CCB-3-H2 moved 2'-2" Northeast Anchor A369 moved 2'-0" East Area 9 should be enveloped in Seismic analysis						
			X	Evaluation			*** Yes	X		

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

BY [illegible] DATE 10/13/79

CHECKED Caf DATE 10/13/79

SYSTEM EMERGENCY CORE COOLING

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES NO	DISCREPANCIES YES	IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS OR DMC/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY UNAFFECTED	SYSTEM OPERABILITY AFFECTED	IF AFFECTED REFER TO REMARK NO.
32A	29 30			HCB-2-H18 moved 2'-4½" East HCB-2-H17A moved 12½" West Weight of valve HV-DH9A used in the analysis differs from the vendor supplied weight Evaluation			*** Yes	X		
			X							
32B	30			GCB-8-H8 welds not in accordance with M-190-H33B-807-6 Weight of valve B97-2 differs from the vendor supplied weight Evaluation			*** Yes	X		
			X							
32D	29 30 33			GCB-2-H11 moved 15" West HCB-3-H11 moved 13" South 33A-HCB-2-H14 is missing Weight of valves B25-1, B26-1 differ from the supplied vendor weights Envelope of areas 7, 8 and 9 should be considered in analysis Evaluation			*** Yes	X		
			X							

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

BY Walz DATE 10/13/79

CHECKED Cuf DATE 10/13/79

SYSTEM EMERGENCY CORE COOLING

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.
18C	30			GCB-4-H6 moved 8" down Weight of valve B25-2 used in the analysis differs from vendor supplied weight Evaluation			*** Yes	X		
			X							
25	29			Extra Support located between HCB-2-H24 and HCB-2-H32 Extra Support located between HCB-2-H11 and HCB-2-H12 Extra Support located between HCB-2-H23 and HCB-2-H32 Extra Support located between HCB-2-H4 and HCB-2-H6 HCB-2-H5 Weld not in accordance with M-190-H33A-204-13 HCB-2-H13 Configuration not in accordance with M-190-H33A-212-9 HCB-2-H27 Structural Member not in accordance with M-190-H33A-226-8 HCB-2-H31 Structural Member not in accordance with M-190-H33A-230-6 Weld missing in HCB-2-H44 33A-HCB-2-H1 moved 28" in to Tank 33A-HCB-2-H3 moved 28 15/16" East for ΔZ 33A-HCB-2-H3 permits + ΔY deflection 33A-HCB-2-H14 moved 15½" West 33A-HCB-2-H27 moved 1[illegible] East Evaluation			** Yes		X	
			X							
125P	29			HCC-93-H1 Welds/Structural Member not in accordance with M-190-H33A-9300-1 HCC-93-H2 Welds not in accordance with M-190-H33A-9301-1 Extra Support located next to HCC-93-H5 33A-HCC-93-H1 moved up 23" (SA) 33A-HCC-93-H2 moved down 11'-2½" (SA) 33A-HCC-93-H6 not in the math model Evaluation			** Yes		X	
			X							
125Q	29			33A-HCC-122-H5 moved 23 1/8" West HSC-122-H2 welds not in accordance with M-190-H33A-122-1-2 Evaluation			** Yes		X	
			X							

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

BY [illegible] DATE 9/30/79 10/1/79

CHECKED [illegible] DATE 9/30/79 10/13/79

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	IF AFFECTED REFER TO REMARK NO.
19A				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 UH-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							
19F	36			HCC-37-H17 Shims, Wrapper Plate and Associated Welds not in accordance with M-190-H34D-3716-3 Extra hanger UH-1 located between HCC-37-H14 and HCC-37-H15 Extra hanger UH-2 located between HCC-37-H14 and HCC-37-H15 Extra hanger UH-4 located between HCC-37H15 and HCC-37-H16 HCC-37-H17 moved 1'-3½" West Envelope of areas 7&8 need be considered in seismic analysis Evaluation			*** Yes	X		
			X							

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

BY ~~[signature]~~ DATE 10/13/79

CHECKED [signature] DATE 10/13/79

SYSTEM CONTAINMENT SPRAY

STRESS CALCULAT NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES NO	DISCREPANCIES YES	IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS OR DWG/CALC CHGS REQ'D	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY UNAFFECTED	SYSTEM OPERABILITY AFFECTED	IF AFFECTED REFER TO REMARK NO.
21A	35		X	Anchor A110 moved 13 1/8" South Envelope of area 7 should be included in the analysis Evaluation			*** Yes	X		
21B	35		X	34 HCC-38 H-22 moved 1" North S.A. 34 HCC-38 H21 moved 1½" East S.A. 34 HCC-38 H19 moved 3½" down 34 HCC-38 H16 & H17 moved 2" West 34 HCC-38 H15 moved 5" up 34 HCC-38 H23 moved 4" East S.A. Anchor A110 moved 13 1/8" South Anchor A174 moved 12" down Evaluation			** Yes	X		
19D	36 37		X	HCB-9-H10 additional loads attached to hanger HCB-9-H18 welds not in accordance with M-190-H34D-917-8 HCB-9-H19 Load-Carrying member not in accordance with M-190-H34D-918-7 HCB-9-H30 moved 12½" South HCB-9-H20 moved 1'-3" West Weight of valve B24-4 differs from vendor supplied weight Support HCB-9-H13, H14 and H18 span areas 7 and 9 Evaluation			*** Yes	X		
19E	35 36		X	HCC-37-H7 hanger and baseplate not in accordance with M-190-H34D-3706-8 HCC-37-H9 baseplate not in accordance with M-190-H34D-3708-8 HCC-37-H10 moved 1'-4½" East Support HCC-37-H10 spans areas 7 and 8 Alternate supports attached to areas 7 and 8 Evaluation			*** Yes	X		
18D	33 36		X	GCB-10-H23 welds not in accordance with M-190-H33F-1022-6 HCB-9-H14 welds not in accordance with M-190-H34D-913-7 HCB-9-H15 welds not in accordance with M-190-H34D-914-6 CCB-6-H12 moved 3" away from shield building CCB-6-H13 moved 7" up CCB-6-H1 moved 1" North GCB-10-H34 moved 3" down GCB-10-H20 moved 11 7/8" South GCB-10-H21 moved 2" South GCB-10-H24 moved 4 3/4" Southwest HCB-9-H15 moved 1 1/8" North HCB-9-H13 moved 11 1/8" North HCB-9-H14 moved 12 1/8" North GCB-10-H26 moved 2½" up GCB-10-H27 moved 3½" down Envelope of areas 7 and 9 should be used in the analysis Evaluation			*** Yes	X		

BY [illegible] DATE 10/13/79

CHECKED [illegible] DATE 10/13/79

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM SPENT FUEL POOL COOLING

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES NO	DISCREPANCIES YES	IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS OR DAC/CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY UNAFFECTED	SYSTEM OPERABILITY AFFECTED	IF AFFECTED REFER TO REMARK NO.
80B	37			Extra Hanger H "H" located next to HCC-26-H10						
				Anchor A-222 moved 27" West						
				Anchor A-231 moved 18 1/8" South						
				35-HCC-26-H9 moved 12½" down						
				35-HCC-26-H11 moved 11 3/4" South						
			X	Evaluation			** Yes	X		
93C	37 56			HCC-49-H3 Welds not in accordance with M-190-H46A-4907-6						
				Extra Support H "C" located next to HSC-32-H11						
				Extra Support H "D" located between HSC-20-H19 and HSC-20-H20						
				35-HSC-32-H20 moved 66½" E, N around elbow						
			X	Evaluation			** Yes	X		
64J	8 37			Extra Hanger H "B" located next to Anchor A-368						
				Extra Hanger H "C" located next to HSC-32-H2						
				HBD-61-H55 moved 2'-6½" West						
				Anchor A-117 moved 13" North						
				35-HSC-32-H6 moved 2'-7" East for Y						
				35-HSC-32-H6 moved 1'-7" East for X						
				35-HSC-32-H2 moved 13" South						
				HSC-32-H18 moved 9'-7" down						
				HSC-32-H1 is missing						
				Weight of the valves A85-6 and B68-4 used in the analysis differs from the vendor supplied weight						
			X	Evaluation			*** Yes	X		
93E	29			HSC-122-H105 not installed						
				HSC-122-H107 Welds not in accordance with M-190-H33A-A12206-3						
				HSC-122-H111 Welds not in accordance with M-190-H33A-A12210-2						
				Extra Support installed between HCC-93-H107 and HCC-93-H109						
				33A-HSC-122-H111 moved 30 11/16" East						
				33A-HSC-122-H102 moved 12 11/16" East						
			X	Evaluation			** Yes	X		

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

BY Walsh DATE 9/13/79

CHECKED Cmf DATE 10/13/79

SYSTEM SPENT FUEL POOL COOLING

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.
93	38 37			HCC-7-H9 Weld not in accordance with M-190-H35B-708-2 HCC-7-H5 moved 23½" West HCC-7-H8 moved 9" North HCC-7-H10 moved 1'-9½" North Differential movement between areas 7 & 8 should be considered						
			X	Evaluation			*** Yes	X		
93A	38			HCC-18-H4 Welds not in accordance with M-190-H35B-1803-2 HCC-18-H6 Welds not in accordance with M-190-H35B-1805-4 HCC-75-H1 Welds not in accordance with M-190-H35B-7500-3 HCC-75-H2 Welds not in accordance with M-190-H35B-7501-3 HCC-75-H3 Welds not in accordance with M-190-H35B-7502-3 35-HCC-13-H5 moved 13" West 35-HCC-18-H8 moved 13 3/4" North 35-HCC-18-H9 - no Z Restraint installed 35-HCC-75-H4 moved 3'-7 3/4" North Anchor A-219 spans Seismic joint						
			X	Evaluation			*** Yes	X		
93B	18 38			HCC-18-H11 Clearance not in accordance with M-190-H35B-1810-5 Extra Support EH-1 located next to Anchor A-331 Extra Support EH-2 located next to Anchor A-184 Extra Support EH-4 located next to HCC-18-H12 Extra Support EH-5 located next to HCC-18-H12 Extra Support HCC-50-H326 Anchor A-406 moved 8 3/8" up 35-HCC-18-H12 moved 14½" West Weight of the Valve B126-1 considered in analysis differs from vendor supplied weight						
			X	Evaluation			*** Yes	X		
93D	38			Section of piping system is inaccessible						
		X		Evaluation	X		No	X		
T-009J	38			ΔZ Snubber missing-1'-0" below HCB-6-H4 on analysis						
			X	Evaluation			** Yes	X		

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

BY Walsh DATE 10/3/79

CHECKED Cmf DATE 10/3/79

SYSTEM SPENT FUEL POOL COOLING

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.
T-009A	38			HCC-21-H2 Configuration not in accordance with M-190-H35B-2101-4 HCC-21-H4 Welds not in accordance with M-190-H35B-2103-6 HCC-21-H5 Welds not in accordance with M-190-H35B-2104-6 HCC-21-H17 Welds not in accordance with M-190-H35B-2116-2 HCC-21-H18 Welds not in accordance with M-190-H35B-2117-3 HCC-21-H19 Welds not in accordance with M-190-H35B-2118-4 HCC-21-H1 moved 24½" North HCC-21-H2 moved 14 1/8" East X-Restraint not on analysis Evaluation			** Yes	X		
			X							
T-009B	37 38			HCC-21-H10 Structural Member not in accordance with M-190-H35B-2109-4 HCC-75-H6 Configuration not in accordance with M-190-H35B-2112-7 HCC-21-H16 moved 6'-2 3/4" West HCC-21-H11 moved 1'-8½" up HCC-75-H7 moved 13½" down Evaluation			** Yes	X		
			X							
T-009K	37 38			Extra Support EH-3 located next to HCB-10-H1 HCB-10-H1 moved 2'-1" North 35-HCC-76-H3 moved 20½" South Support HCB-10-H1 spans Seismic joint Evaluation			** Yes	X		
			X							
93F	37			Anchor A408 moved 25½" West Evaluation			** Yes	X		
			X							

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

CHECKED Cnf DATE 10/13/79

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.
61E	42		X	Evaluation	X		No	X		
61N	42			HBC-3-H1 Structural Member not in accordance with M-190-H36D-300-6 HBC-3-H2 Structural Member/Welds not in accordapce with M-190-301-8 HBC-3-H3 Welds not in accordance with M-190-H36D-302-6 A 113 moved 3'-0" up HBC-3-H2 moved 14 7/8" North HBC-3-H3 moved 15" South Evaluation			** Yes	X		
61H	42 43		X	HBB-1-H1 Structural Member not in accordance with M-190-H36D-100-6 HBC-39-H4 Welds not in accordance with M-190-H36D-3903-7 HBC-39-H9 Welds not in accordance with M-190-H36D-3908-8 HBC-39-H16 Structural Member not in accordance with M-190-H36D-3911-7 Extra Hanger UH-3 located next to HBC-39-H6 A106 moved 2'-8" East Evaluation			** Yes	X		
61I	42		X	Anchor A-114 Welds not in accordance with C-856 HBC-3-H8 Extra Hanger attached Evaluation			* Yes	X		
61P	39 40 42		X	HBC-10-H1 Welds not in accordance with M-190-H36A-1000-3 HBC-10-H2 Welds not in accordance with M-190-H36-1001-3 Support 36-HBC-10-H2 moved 1'-0½" North Evaluation			** Yes	X		
61X	37 41		X	HBC-22-H1 Welds not in accordance with M-190-H36C-2200-7 HBC-22-H2 Welds not in accordance with M-190-H36C-2201-7 HBC-22-H1 moved 1'-7 5/8" West Evaluation			** Yes	X		

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

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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.
61A	40 42		X	Anchor A-091 moved 13" South Evaluation			** Yes	X		
61B	40 42		X	HBC-2-H5 Configuration not in accordance with M-190-H36B-204-3 Evaluation			* Yes	X		
61C	40 41		X	HBC-23-H6 Welds/Structural Member not in accordance with M-190-H36B-2305-7 HBC-50-H2 Configuration not in accordance with M-190-H36B-5001-6 HBC-50-H3 Configuration/Structural Member not in accordance with M-190-H36B-5002-9 Valve B41-4 has been relocated into this problem Anchor A-094 moved 1" North Anchor A-095 moved 2'-8½" East HBC-23-H5 moved 1'-5½" up Dimensions 16"HBC-50 minor changes (C-5) 2 welded attachments added 18½' below HBC-23-H1 HBC-23-H15 moved 2½" North HBC-50-H1 moved 1" West HBC-50-H2 moved 2" East Weights of valves B146-1, B146-2 differ from vendor supplied weights Evaluation			*** Yes	X		
61G	42 43		X	HBB-12-H5 Structural Member not in accordance with M-190-H36D-1204-3 HBC-40-H3 Structural Member not in accordance with M-190-H36D-4002-8 HBC-40-H6 Structural Member not in accordance with M-190-H36D-4005-7 HBC-40-H7 Welds not in accordance with M-190-H36D-4006-5 HBC-40-H8 Structural Member not in accordance with M-190-H36D-4007-8 Extra Hanger UH-2 located next to Blockout M-14 HBC-40-H4 moved 2'-4 3/8" West HBC-40-H1 moved 13 3/8" West HBC-40-H5 moved 1'-7 5/8" East Weight of valve F16-2 differs from vendor supplied weight Evaluation			*** Yes	X		

BY [illegible] DATE 12/13/79

CHECKED [illegible] DATE 12/13/79

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.
61M	41			Anchor A-401 welds/structural members not in accordance with C-676						
				Anchor A-402 welds/strucutural members not in accordance with C-673						
				HBC-23-H22 configuration/welds not in accordance with M-190-H36C-2321-10						
				HBC-23-H26 clearances/welds not in accordance with M-190-H36C-2321-10						
				HBC-23-H27 configuration not in accordance with M-190-H36C-2326-9						
				HBC-23-H28 configuration not in accordance with M-190-H36C-2327-6						
				HBC-28-H1 welds not in accordance with M-19036C-2800-5						
				HBC-28-H4 welds not in accordance with M-190-H36C-2803-6						
				HBC-28-H5 welds not in accordance with M-190-H36C-2804-7						
				HBC-28-H6 configuration not in accordance with M-190-H36C-2805-7						
				HBC-28-H8 configuration not in accordance with M-190-H36C-2807-5						
				HBC-28-H9 structural member not in accordance with M-190-H36C-2808-8						
				HBC-28-H10 welds not in accordance with M-190-36C-2809-6						
				HBC-28-H15 welds not in accordance with M-190-36C-2814-3						
				HBC-28-H16 welds not in accordance with M-190-36C-2815-4						
				Extra support UH-1 located next to HBC-28-H8						
				HBC-23-H17 moved 12½" North						
				HBC-23-H24 moved 26" West						
				Valve F7-2 and flange on vertical run exchange position						
				Weights of valves F 7-1, F 7-2 and F 7-3 used in analysis differ from vendor supplied weights						
			X	Evaluation			*** Yes	X		

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BY [illegible] DATE 9/26/79

CHECKED [illegible] DATE 9/30/79 10/5/79 10/12/79

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM COMPONENT COOLING WATER

STRESS CALCULATION NO. / WELDING 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			HBC-2-H1 Configuration not in accordance with M-190-H36A-200-9						
			X	Evaluation			** Yes	X		
55B	39			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)						
			X	Evaluation			** Yes	X		
55C	39									
		X		Evaluation	X		No	X		
55D	39			HBC-27-H4 Welds not in accordance with M-190-H36A-2703-7						
				Valve F6-5 Welded directly to elbow						
			X	Evaluation	X		* Yes	X		
61D	39 40 42			Anchor A-095 moved 2'-8¼ east HBC-52-H3 moved 3'-1" south Valve B41-4 is relocated beyond the problem						
			X	Evaluation			*** Yes	X		
61J	41			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 9¼" South						
			X	Evaluation			** Yes	X		
61F	42			HBC-2-H9 Structural Members not in accordance with M-190-H36D-208-6						
				HBC-2-H110 Strucutral Member not in accordance with M-190-H36D-209-8						
				Anchor A-106 configuration not in accordance with C-8[illegible]						
				Extra Hanger UH-1 located next to Anchor A-116						
				Weight of Valves B39-1,2,3,4 and F3-1, 2 of 3 used in the analysis differs from vendor supplied weight						
			X	Evaluation			*** Yes	X		

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

BY [illegible] DATE 9/20/79 10/15/79

CHECKED [illegible] DATE 9/20/79 10/15/79

SYSTEM COMPONENT COOLING WATER

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES NO	DISCREPANCIES YES	IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS OR DNG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY UNAFFECTED	SYSTEM OPERABILITY AFFECTED	IF AFFECTED REFER TO REMARK NO.
61K	41			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'-2¼" South 1-H21 moved 8½" North-West Evaluation			** Yes	x		
			X							
61L	41			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		
			X							
61T	41			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		
			X							
61V	41			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		
			X							
61W	41			HBC-80-H1 Configuration not in accordance with M-190-H36C-8000-6 Evaluation			* Yes	X		
			X							
83L	44			Anchor A379 Structural Member not in accordance with C-866 1. 27-H34 moved 2'-0 3/4" Southeast 2. A375 moved 1'-0 7/8" East 3. A 379 moved 1'-0 7/8" East Evaluation			** Yes	X		
			X							

BY Walsh DATE 11/15/79

CHECKED Cmf DATE 11/13/79

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.
83A	44			HBC-26-H5 Welds/Structural not in accordance with M-190-H36H-2604-5 HBC-26-H6 Welds not in accordance with M-190-H36H-2605-8 HBC-26-H7 Welds not in accordance with M-190-H36H-2606-4 HBC-28-H8 Welds not in accordance with M-190-H36H-2607-6 HBC-26-H9 Welds not in accordance with M-190-H36H-2608-5 HBC-26-H10 Welds not in accordance with M-190-H36H-2609-4 HBC-26-H15 Welds not in accordance with M-190-H36H-2614-7 Extra Support H"A" located next to anchors A87, A88, A89, A90 26-H14 moved 3'-11¼ northwest The correct location of the Seismic joint between areas 6 & 7 need to be considered in analysis						
			X	Evaluation			*** Yes	X		
83B	44			HBC-26-H20 Welds not in accordance with M-190-H36H-2619-3 HBC-26-H21 Welds not in accordance with M-190-H36H-2620-3 HBC-26-H22 Welds not in accordance with M-190-H36H-2621-3 HBC-26-H24 Welds not in accordance with M-190-H36H-2623-4 HBC-26-H23 Welds not in accordance with M-190-H36H-2622-4 HBC-26-H28 Welds not in accordance with M-190-H36H-2627-5 A376 moved 1'-1 7/8" West The correct locations of the Seismic joint between areas 6 & 7 need to be considered in analysis						
			X	Evaluation			*** Yes	X		
83C	44			HBC-27-H9 Welds not in accordance with M-190-H36H-2708-4 HBC-27-H10 Welds not in accordance with M-190-H36H-2709-3 HBC-27-H11 Welds/clearance not in accordance with M-190-H36H-2710-3 HBC-27-H12 Welds not in accordance with M-190-H36H-2711-2 HBC-27-H14 Welds, clearances/structural members not in accordance with M-190-H36H-2713-3 HBC-27-H15 Welds not in accordance with M-190-H36H-2714-5 HBC-26-H16 extra support exists in the field HBC-27-H17 Welds not in accordance with M-190-H36H-2716-4 27-H16 moved 1'-3 1/16" Southeast 27-58 moved 1'-0 1/16" Southeast The correct location of the Seismic Joint between areas 6 & 7 need to be considered in the analysis						
			X	Evaluation			*** Yes	X		

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

BY Wally Jude DATE 10/19/79

CHECKED Cmf DATE 10/13/79

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.
83D 44			HBC-27-H23 Welds not in accordance with M-190-H36H-2722-3 HBC-24-H24 Welds/clearance not in accordance with M-190-H36H-2723-3 HBC-27-H26 Welds not in accordance with M-190-H36H-2725-4 HBC-27-H27 Welds/added weight not in accordance with M-190-H36H-2726-3 HBC-27-H28 Welds not in accordance with M-190-H36H-2727-6 HBC-27-H29 Configuration not in accordance with M-190-H36H-2728-6 HBC-27-H30 Welds not in accordance with M-190-H36H-2729-5 HBC-27-H32 Structural Member not in accordance with M-190-H36H-2731-3 Extra Support H "B" located next to HBC-27-H22 The connect location of the Seismic Joint between areas 6 & 7 need be considered in the analysis Evaluation			*** Yes	X	*	
83F 44			HBC-26-H40 Welds/direction of support not in accordance with M-190-H36H-2639-4 HBC-26-H41 Welds/direction of support not in accordance with M-190-H36H-2640-3 Anchor A376 Structural Member not in accordance with C-866 Evaluation			* Yes	X		
83F 44			HBC-27-H50 Weld/direction of support not in accordance with M-190-H36H-2749-3 HBC-27-H55 Configuration not in accordance with M-190-H36H-2[illegible] Anchor A377 Structural Member not in accordance with C-866 Evaluation			* Yes	X		
83G 44			A-374 moved 13" East Evaluation			** Yes	X		
83H 44			27H36 moved 1'-6" South A-375 moved 1'-0 7/8" East Support 36-HBC-27-H47 spans the joint between areas 6 & 9 Evaluation			*** Yes	X		
83K 44			Anchor 378 Structural Member Not in accordance with C-866 26-H32 moved 2'-0 3/4" Southeast A374 moved 13" East A378 moved 15" East Evaluation			** Yes	X		

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

BY [illegible] DATE 9/20/79

CHECKED [illegible] DATE 9/30/79 10/13/79

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		X	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 E -14 and E3-15 used in the seismic analysis differs from vendor supplied weight. Evaluation			*** Yes	X		
51B	51		X	Weight of the valves PSV-3962 and PSV-3963 in the seismic analysis differs from vendor supplied weight. Evaluation			*** Yes	X		
110A	55		X	HBC-37-H27 Welds not in accordance with M-190-H41L-3726-2 HBC-37-H34 Structural Member n[illegible] 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 Evaluation			** Yes	X		
63B	53		X	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 Evaluation			*** Yes	X		
63C	53		X	Weight of the following valves used in analysis differs from vendor supplied weight: F11-7, F11-9, F11-11, F11-12, F11-13, F11-14, TV-1356, TV-1357 and TV-1358 Evaluation			*** Yes	X		

BY Walsh DATE 10/3/79

CHECKED Cmf DATE 10/13/79

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.
84A	54			Support HBC-45-H7 Not welded in accordance with M-190-B41H-4506-3 4 Support HBC-45-H17 not welded in accordance with the sketch. Support HBC-45-H13 not welded in accordance with M-190-B41H-4512-3 Valve B86-3 orientation not in accordance with M-241A Valve B86-4 orientation not in accordance with M-241H HBC-45-H3 moved 1'5" East HBC-45-H11 moved 14" East HBC-45-H13 moved 15" West HBC-45-H14 moved 3'-6" Down HBC-45-H9 moved 14" South Weight of the valve B12-1 used in the analysis differs from the vendor supplied weight Evaluation			*** Yes	X		
			X							
84B	54			HBC-45-H20 welds not in accordance with M-190-B41H-4519-4 HBC-45-H26 weld not in accordance with M-190-B41H-4525-3 HBC-45-H27 welds not in accordance with M-190-B41H-4526-6 HBC-45-H32 configuration not in accordance with M-190-B41H-4531-5 HBC-45-H34 welds not in accordance with M-190-B41H-4533-6 HBC-45-H37 welds not in accordance with M-190-B41H-4536-9 HBC-45-H23 moved 2'-6" South HBC-45-H29 moved 1'6" East HBC-45-H31 moved 23" South Evaluation			** Yes	X		
			X							
84C	54			HBC-45-B41 Welds not in accordance with M-190-B41H-4540-5 Valve B12-1 orientation not in accordance with 3"-HBC-45 M-241H Valve B86-18 orientation not in accordance with 3"-HBC-45 M-241H HBC-45-H39 moved 12½" South HBC-45-H41 moved 16" South Evaluation			** Yes	X		
			X							
63A	53 54			HBC-37-H16 Welds not in accordance with M-190-B41D-3715-4 HBC-45-H2 moved 14" North Evaluation			** Yes	X		
			X							

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

BY Wolfe DATE 10/13/79

CHECKED Cimf DATE 10/13/79

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.
60	50 53 58		X	HBC-36-H7 Elevation/Configuration not in accordance with M-190-H307-3606-5 HBC-36-H11 moved 3'-1 7/16" Northeast HBC-36-H10 moved 2'-1 7/16" Northeast HBC-36-H9 moved 3'-0 3/4" Northeast HBC-36-H8 moved 3'-0 3/4" Northeast HBC-36-H22 moved 2'-1" East HBC-36-H4 moved 4'-5" East 41-HBC-36-H26 moved 7'-9" West Anchor A145 moved 1 3/4" East 41-HBC-36-H12 moved 19" South Evaluation			** Yes	X		
84D	54		X	HBC-44-H5 Clearance not in accordance with M-190-H41H-4404-8 HBC-44-H50 Welds not in accordance with M-190-H41H-4469-2 HBC-44-H6 moved 16" South HBC-44-H50 moved 1'-3" South 41-HBC-44-H17 & H8 Support added not analyzed on old problem Evaluation			** Yes	X		
84E	54		X	HBC-44-H22 Welds not in accordance with M-190-H41H-4421-5 HBC-44-H28 Configuration not in accordance with M-190-H41H-4427-6 HBC-44-H30 Welds not in accordance with M-190-H41H-4429-3 HBC-44-H20 moved around corner 2'-6" north (8½" east) HBC-44-H21 moved around corner 2'-6" north (8½" east) HBC-44-H28 moved 21" North HBC-44-H29 moved 21" North HBC-44-H30 moved 2'-7" East HBC-44-H31 moved 2'-7" East Evaluation			** Yes	X		
84F	54		X	HBC-44-H36 Welds not in accordance with M-190-H41H-4435-5 HBC-44-H37 Welds not in accordance with M-190-H41H-4436-8 HBC-44-H40 Welds not in accordance with M-190-H41H-4439-4 HBC-44-H42 Welds not in accordance with M-190-H41H-444-2 HBC-44-H34 moved 1'-10" West HBC-44-H35 moved 1'-10" West HBC-44-H36 moved 15" East HBC-44-H37 moved 15" East HBC-44-H40 moved down 14" Evaluation			** Yes	X		

BY Waight DATE 10/3/79

CHECKED Cuf DATE 10/3/79

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.
52A	58									
		X		Evaluation	X		No	X		
52C	58			HBC-34-H23 Configuration not in accordance with M-190-H50F-3422-5						
			X	Evaluation			* Yes	X		
37A	52			42-HBC-43-H2 moved 22" down 41-HBC-43-H3 moved 9'-6" South Anchor A-138 moved 31" East						
			X	Evaluation			** Yes	X		
37B	52			Penetration P-3 not shown on M-241C Penetration P-5 not shown on M-241C Anchor A-139 moved 48" West 41-HBC-43-H5 moved 22" down						
			X	Evaluation			** Yes	X		
37C	52			Penetration P-4 not shown on M-241C 41-HBC-43-H12 moved 21" North 41-HBC-43-H8 moved 14" down						
			X	Evaluation			** Yes	X		
37E	52 54			Penetration P-1 not shown on M-241C Extra Support UH-1 located next to HBC-44-H4 HBC-35-H17 Welds not in accordance with M-190-H41C-3516-8 Anchor A-142 moved 22" East 41-HBC-35-H24 moved 20" South						
			X	Evaluation			** Yes	X		

BY [illegible] DATE 10/13/79

CHECKED Cuf DATE 10/15/79

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.
37F	7 52									
			X	Weights of the following valves used in analysis differ from vendor supplied weights: F11-1, 2, 3, 4, 5 and 6 Evaluation			*** Yes	X		
37D	7 52 54			Penetration P-2 not shown on M-241C 41-HBC-35-H10 moved 19" South 41-HBC-35-H11 moved 34" Around corner, W & N (axial - lateral) Anchor A-141 moved 22" East 41-HBC-35-H7 moved 20 3/4" South						
			X	Evaluation			** Yes	X		
51A	51			No discrepancies						
		X		Evaluation	X		No	X		
52B	51 52			Hanger missing on the horizontal run Weights of valves F2-1, F2-2, F2-3, F2-4, F4-7 and F4-8 differ from vendor supplied weights						
			X	Evaluation			*** Yes	X		

BY Waight DATE 9/30/79

CHECKED Cmf DATE 9/30/79

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			MSC-145-H36 Welds not in accord with M-190-B46B-14535-4 MSC-145-H37 Clearances not in accordance with M-190-B46B-14536-4 Additional loads attached MSC-145-H39 Structural Members not in accordance with M-190-B46B-14538-3 MSC-145-H46 Welds not in accordance with M-190-B46B-14545-4						
			X	Evaluation			* Yes	X		
96C	57			MSC-155-H10 Welds not in accordance with M-190-B46B-15509-1 MSC-155-H11 Welds not in accordance with M-190-B46B-15510-2 MSC-145-H4 moved 1'-6 7/8" north MSC-155-H12 moved up 1'-2½"						
			X	Evaluation			** Yes	X		
96D	57			MSC-145-H16 Welds not in accordance with M-190-B46B-14515-6 MSC-145-H19 Welds not in accordance with M-190-B46B-14518-3 MSC-145-H21 Welds not in accordance with M-190-B46B-14520-1						
			X	Evaluation			* Yes	X		
96E	57			MSC-155-H4 Additional loads attached Extra Hanger located between MSC-155-H3 and MSC-155-H4 Anchor A355 has moved to horizontal pipe from vertical position (2½" MSC-155). 8" from elbow toward north MSC-155-H3 moved 3'-5" east Anchor A-356 moved 2'-3" west						
			X	Evaluation			** Yes	X		
96F	57			MSC-155-H9 Configuration not in accordance with M-190-B46B-14508-5 MSC-155-H16 Welds not in accordance with M-190-B46B-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" MSC-155-H18 moved 1'-6" west MSC-155-H9 previously only hanger support-now rigid x support added Anchor A357 moved up 3'-7½"						
			X	Evaluation			** Yes	X		

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

BY Waight DATE 10-13-79

CHECKED Cuf DATE 10/18/79

SYSTEM SUMP PUMP DISCHARGE

STRESS CALCULATION NO.	WATERFALL 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.
968	37 57			Hanger HSC-145-H49 Welds not in accordance with M-190-H46B-14548-3						
				Extra Hanger H "E" located between HSC-32-H16 and HSC-32-H17						
				Extra Hanger H "F" located next to HSC-32-H14						
				Hanger HSC-145-H49 moved 1'-2 5/8" South						
				35-HSC-32-H15 moved 14" East						
			X	Evaluation			** Yes	X		

1265 201

BY Walsh DATE 10/12/79

CHECKED Cuf DATE 10/13/79

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM EMERGENCY DIESEL GENERATOR

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.
122A	59			HBC-53-H5 Welds not in accordance with M-190-H62C-534-2 HBC-53-H6 Welds/Structural Members not in accordance with M-190-H62C-535-2 HBC-53-H7 Welds not in accordance with M-190-H62C-536-2 HBC-53-H9 Welds not in accordance with M-190-H62C-5308- HBC-53-H10 Welds not in accordance with M-190-H62C-539-2 HBD-183-H7 Welds not shown on M-190-H62C-1836-1 HBC-53-H1 moved 1'-6" South HBC-53-H2 moved 1'-6" East						
			X	Evaluation			** Yes	X		
123A	60			No Hanger Problem						
		X		Evaluation	X		No	X		
123B	60			HBD-359-H2 Weld not in accordance with M-190-H268D-35901-4 HBD-359-H10 Weld not in accordance with M-190-H268D-35909-4 HBD-359-H2 moved ? 3/4" Northeast HBD-359-H14 moved 1'-1 3/4" West HBD-359-H8 moved up 7 7/8"						
			X	Evaluation			** Yes	X		

1265 202

BY [illegible] DATE 9/20/79

CHECKED [illegible] DATE 9/20/79

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 DAC/ 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		

1265 203

BY [illegible] DATE 9/30/79 10/15/79

CHECKED Cuf DATE 9/20/79 10/15/79

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM AUXILIARY STEAM

STRESS CALCULATION NO.	WALKDOWN PACKAGE 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.
77E	22		Restraint 20- HBD-86-H17 moved 1'-7 5/8" down						
		X	Evaluation			** Yes	X		
85	24		HBD-87-H20 Structural Member not in accordance with M-190-H20L-8719-3						
			HBD-87-H21 welds not in accorence with M-190-H20L-8720-3						
			Extra Support H "A" Located next to HBD-87-H15						
			87-H15 moved 1'-10" West						
			87-H18 moved 2'-2" North						
		X	Evaluation			** Yes	X		
94B	23 24		Anchor A278 Configuration/dimensions not in accordance with C-889						
			Anchor A279 Dimensions not in accordance with C-889						
			HBD-46-34 Configuration not in accordance with M-190-H20G-A4603-6						
			HBD-46-H108 Welds not in accordance with M-190-H20G-A4607-2						
			Support 20 HBD-46-H5 moved 1'-11½" North						
			87-H29 moved 1'-3" down						
			87-H11 moved 2'-4" East						
		X	Evaluation			** Yes	X		

1265 204

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

BY [illegible] DATE 10/13/79

CHECKED CMF DATE 10/13/79

SYSTEM CIRCULATING 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.
59	15			Valve HV-2929 orientation not in accordance with M-241A						
				Valve HV-2932 orientation not in accordance with M-241A						
				HBD-98-H1 welds not in accordance with M-190-B41A-9800-3						
				HBD-191-H1 structural members not in accordance with M-190-B41A-19100-3						
				HBD-194-H1 moved 35" South						
				HBD-194-B4 moved 15" South						
				HBD-98-H1 moved 24" South						
				HBD-98-H2 moved 23" South						
				HBD-28-H1A moved 18 3/8" North						
				HBD-28-H2A moved 13" South						
				Anchor A182 moved 3'6" North						
				Anchor A371 moved 15" North						
				Anchor A370 moved 15" North						
			X	Evaluation			** Yes	X		
59B	15			Valve FV-2944 orientation not shown on M-212B						
				Valve FV-2945 orientation not shown on M-212B						
				HBD-100-H6 welds not in accordance with M-190-H12B-10005-5						
			X	Evaluation			** Yes	X		

1265 205

BY [illegible] DATE 10/13/79

CHECKED [illegible] DATE 10/13/79

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	C... 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.
79	19			KBE-2-H98 hanger not installed KBE-2-H100 welds not in accordance with M-190-H16E-299-6 KBE-2-H103 welds not in accordance with M-190-H16E-A202-6 KBE-2-H104 welds not in accordance with M-190-H16E-A203-6 KBE-2-H105 weld not in accordance with M-190-H16E-206-8 KBE-2-H107 welds not in accordance with M-190-H16E-A206-8 KBE-2-H108 welds not in accordance with M-190-H16E-A207-7 KBE-2-H319 welds not in accordance with M-190-H16E-C218-2 Hanger KBE-2 H98 missing Wall anchor Inaccessible						
			X	Evaluation			** Yes	X		
79A	19			KBE-2-H236 welds and configuration not in accordance with M-190-H16E-B235-3 KBE-2-H237 welds and configuration not in accordance with M-190-H16E-B236-4 KBE-2-H238 welds and configuration not in accordance with M-190-H16E-B237-4 KBE-2-H243 plate and clearance not in accordance with M-190-H16E-B242-5 KBE-2-H244 weld not in accordance with M-190-H16E-B243-5 KBE-2-H245A weld not in accordance with M-190-H16E-B244A-6 KBE-2-H320 welds not in accordance with M-190-H16E-219-2 SA(+Y direction) restraint (16-KBE-2-H842) not in the math model Extra [illegible]er UH-6 located to KBE-2-H241 Suppor[illegible]6KBE-2-H126A, H236, H237, H238 and H245A span seismic [illegible]int. Envelope 8 areas 7 and 8 should be used with differential movements accordingly.						
			X	Evaluation			*** Yes	X		
79B	19			KBE-2-H251 welds not in accordance with M-190-H16E-B250-3 KBE-2-H255 welds not in accordance with M-190-H16E-B254-3 KBE-2-H258 plates not in accordance with Grinnell 18-B257 KBE-2-H259 welds not in accordance with M-190-H16E-B258-5 KBE-2-H260 welds not in accordance with M-190-H16E-B259-5 KBE-2-H262 dimensions not in accordance with M-190-H16E-B261-7 KBE-2-H26[illegible] dimensions not in accordance with M-190-H16E-B263-7 KBE-2-H266 welds not in accordance with M-190-H16E-B265-5 KBE-2-H268, welds not in accordance with M-190-H16E-B267-4 A361 dimensions not in accordance with drawing M-216E Extra Hanger UH-4 located next to Anchor A361 Extra Hanger UH-5 located next to Anchor A361 Extra Hanger UH-7 located next to Anchor A359 Extra Hanger UH-8 located next to Anchor A359 Valve FP-3 orientation of operator not in accordance with M-216E Restraint 16KBE-2 not in the math model Weight of valves, FP-3 and FP-4 used in the analysis differs from vendor supplied weight						

BY [illegible] DATE 10/18/79

CHECKED Cmf DATE 10/19/79

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	IF AFFECTED REFER TO REMARK NO.
CONTINUED 79B	19			Envelope of areas 7 and 8 should be used in seismic analysis						
			X	Evaluation			*** Yes	X		
79C	19			KBE-2-H109 welds not in accordance with M-190-H16E-A208-8						
				KBE-2-H285 welds and configuration not in accordance with M-190-H16E-B284-3						
				KBE-2-H286 welds not in accordance with M-190-H16E-B285-4						
				KBE-2-H289 welds not in accordance with Grinnell 18-B288						
				KBE-2-H290 welds/dimensions not in accordance with M-190-H16E-B289-4						
				Extra hanger UH-1 located next to KBE-2-H109						
				Extra hanger UH-2 located next to HCS-29						
				16-KBE-2-H289 moved 12½" North						
				Extra Hanger UH-3 (SA) @ Elbow						
				Anchor between 79 & 79C is built @ blockwall not accessible						
				Weight of the Valve FP-4 used in analysis differs from vendor supplied weight						
			X	Evaluation			*** Yes	X		
87A	18			Anchor A-414 Structural Member not in accordance with C-670						
				Anchor A-415 Structural Member not in accordance with C-670						
				KBE-2-H218 Configuration not in accordance with M-190-H16D-B217-3						
				KBE-2-H223 Welds not in accordance with M-190-H16D-B222-3						
				Extra Support H "A" located next to KBE-2-H217						
				Anchor A-413 moved 31 3/4" East						
				Weight of the valve FP-245 used in the analysis differs from vendor supplied weight						
				Support KBE-2-H214 spans areas 7 & 6						
			X	Evaluation			*** Yes	X		

BY [illegible] DATE 10/13/79

CHECKED [illegible] DATE 10/13/79

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 AFFECTED	SYSTEM OPERABILITY NOT AFFECTED	SYSTEM OPERABILITY IF AFFECTED REFER TO REMARK NO.
87B	18			KBE-2-H229 Structural Member not in accordance with M-190-H16D-B228-3						
				KBE-2-H23 Welds not in accordance with M-190-H16D-B238-3						
				KBE-2-H248A Configuration not in accordance with M-190-H16D-B247A-3						
				KBE-2-H315 Welds not in accordance with M-190-H16D-C214-2						
				Extra Support H "I" located next to KBE-2-H229						
				Extra Support H "J" located between KBE-2-H230 and KBE-2-H314						
				Extra Support H "K" located between KBE-2-H230 and KBE-2-H314						
				Extra Support H "L" located next to KBE-2-H248A						
				Weight of valve FP-3 used in the Seismic analysis differs from vendor supplied weight.						
			X	Evaluation			*** Yes	X		
87C	18			Anchor A-318 location not in accordance with C-651						
				KBE-2-H173 Welds not in accordance with M-190-H16D-A272-6						
				KBE-2-H177 Structural Member not in accordance with M-190-H16D-A276-2						
				KBE-2-H180 Configuration/Welds not in accordance with M-190-H16D-A279-3						
				Extra Support H "F" located next to KBE-2-H180						
				Extra Support H "G" located next to Anchor A-318						
				Extra Support H "H" located next to Anchor A-315						
				Valve FP-6 "A" Orientation not in accordance with M-216D						
				16"KBE-2-H176 moved North 15¼"						
				16"KBE-2-H321 Hanger dwg. is missing						
				Weight of the valve FP-4 used in analysis differs from vendor supplied weight.						
			X	Evaluation			*** Yes	X		
87D	18			KBE-2-H191 Structural Member not in accordance with M-190-H16D-290-5						
				KBE-2-H192 Welds not in accordance with M-190-H16D-A291-4						
				KBE-2-H193 Welds not in accordance with M-190-H16D-A292-5						
				KBE-2-H194 Welds not in accordance with M-190-H16D-A293-6						
				KBE-2-H203 Welds not in accordance with M-190-H16D-A299-4						
				KBE-2-H206 Welds not in accordance with M-190-H16D-B203-4						
				KBE-2-H207 Welds not in accordance with M-190-H16D-B206-5						
				KBE-2-H208 Welds not in accordance with M-190-H16D-B207-4						

Continued

BY [illegible] DATE 10/13/79

CHECKED Cuf DATE 10/13/79

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.
Cont. 87D	18			Extra Support H "B" located next to KBE-2-H196						
				Extra Support H "C" located next to Anchor A-243						
				Extra Support H "D" located next to KBE-2-H210						
				Extra Support H "E" located next to KBE-2-H211						
				16-KBE-2-H186 moved 13" East						
				16-KBE-2-H213 moved 15" East						
				16"KBE-2-H207 moved 25 3/4" North						
				16-KBE-2-H194 moved 16 3/4" South						
			X	Evaluation			** Yes	X		
82G	17			No Discrepancies						
			X	Evaluation	X		No	X		
82C	17			KBE-2-H140 configuration not in accordance with Grinnell SK 18-4239						
				KBE-2-H144 configuration not in accordance with M-190-H16C-A243-6						
				KBE-2-H145 configuration not in accordance with M-190-H16C-A244-3						
				KBE-2-H147 structural member not in accordance with M-190-H16C-A246-4						
				KBE-2-H148 welds not in accordance with M-190-H16C-A247-4						
				KBE-2-H158 configuration not in accordance with M-190-H16C-A257-4						
				KBE-2-H159A and B configuration not in accordance with M-190-H16C-A258-4						
				KBE-2-H162 configuration/welds not in accordance with M-190-H16C-A261-4						
				KBE-2-H163 structural member not in accordance with M-190-H16C-A262-2						
				KBE-2-H169 structural member not in accordance with M-190-H16C-A268-5						
				Valve FP-6F orientation not in accordance with M-216C						
				Extra support H "A" located next to KBE-2-H141						
				Extra support H "B" located next to KBE-2-H356						
				Extra support H "C" located next to KBE-2-H166						
				Extra support H "D" located next to Anchor A292						
				Extra support H "F" located next to KBE-2-H246						
				2-H152 moved from East-West run to North-South run						
				2-H148 moved 2'-5" West						
				2-H144 moved 2'-1" North						
				2-H143 moved 2'-10" East						
				2-H141 moved 2'-9 3/4" East						
				2-H352 moved 1'-4" up						
				2-H145 moved 1'-6" up						

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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	DR &S IS OR DWG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY UNAFFECTED	SYSTEM OPERABILITY AFFECTED	IF AFFECTED REFER TO REMARK NO.
118A	20			Valve FP-1 Orientation not in accordance with M-21bF, 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		
82A	17			FP "A" type and operator orientation not specified (actual orientation shown) KBE-2-H305 welds not in accordance with M-190-H16C-C204-1 KBE-2-H309 welds not in accordance with M-190-H16C-C208-3 Hanger 309 moved 15" North			**			
			X	Evaluation			Yes	X		
82B	17			KBE-1-H2 welds not in accordance with M-190-H16C-101-2 KBE-1-H3 welds not in accordance with M-190-H16C-102-2 KBE-1-H4 configuration not in accordance with M-190-H160C-103-2 KBE-1-H7 configuration not in accordance with M-190-H16C-106-2 Extra hanger H "E" located next to anchor A434 Anchor A434 moved from North-South run pipe to East-West run pipe Restraint 16-KBE-1 H9 has extra +Y 16KBE-1-H8 moved 8'-5" North			**			
			X	Evaluation			Yes	X		
82D	17			KBE-2-H291 structural member not in accordance with M-190-H16C-B290-4 KBE-2-H292 configuration/type not in accordance with M190-H16C-B291-2 KBE-2-H300 welds not in accordance with M-190-H16C-B299-4 KBE-2-H296 configuration not in accordance with M-190-H16C-B295-6 2-H-59 added 20" South 2-H-296 added 19" North			**			
			X	Evaluation			Yes	X		
82E	17									
			X	Evaluation	X		No	X		

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BY [illegible] DATE 10/13/79

CHECKED [illegible] DATE 10/13/79

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM FIRE PROTECTION

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.
82C CONT'D	17			2-H167 moved 2'-4½" North A434 moved from North-South run to East-West run 2-H163 moved 16½" North Weight of the valve FP-6 used in analysis differs from vendor supplied weight			***			
			X	Evaluation			Yes	X		
82F	17			FP-6B operator orientation not per design Extra supports UH7 and UH8 provided in the piping Weight of the valve FP4 used in the analysis differs from vendor supplied weight Envelope of areas 7 and 8 should be used in analysis Support 16KBE-2-H55 spans areas 7 and 8			***			
			X	Evaluation			Yes	X		

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

BY [illegible] DATE 9/20/79

CHECKED [illegible] DATE 9/20/79

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			HBC-23-H1 Welds/Configuration 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 10" HCD-4-H-76 moved 1'-1" to West 10" HCD-4-H-62 moved 13" to North T2E (E-3) moved 1'-3" to South 10" 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		

BY [illegible] DATE 9/20/79

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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			MCC-50-H1 Welds not in accordance with M-190-H10E-5000-3						
				MCC-50-H2 Welds not in accordance with Grinnell SK 14-5001						
				MCC-50-H3 Configuration not in accordance with M-190-H10E-5002-4						
				MCC-50-H4 Welds not in accordance with M-190-H10E-5003-3						
				Supports located in areas 7 & 8 should be analyzed for displacement						
			X	Evaluatic			*** Yes	X		
102E	10			MCC-50-H44 Welds not in accordance with M-190-H10C-5043-3						
				MCC-50-H10 Welds not in accordance with M-190-H10C-5009-3						
				MCC-50-H11 Welds not in accordance with M-190-H10C-5010-3						
				MCC-50-H12 Welds not in accordance with M-190-H10C-5011-5						
				MCC-50-H13 Welds not in accordance with M-190-H10C-5012-4						
				MCC-50-H15 Configuration/Structural Member not in accordance with M-190-H10C-5014-4						
				MCC-50-H17 Welds not in accordance with M-190-H10C-5016-5						
				MCC-50-H18 Welds not in accordance with M-190-H10C-5017-4						
				MCC-50-H19 Welds and clearances not in accordance with M-190-H10C-5018-4						
				MCC-50-H23 Welds not in accordance with M-190-H10C-5022-5						
				MCC-50-H25 Welds not in accordance with M-190-H10C-5024-5						
				MCC-50-H27 Welds not in accordance with M-190-H10C-5026-5						
				MCC-50-H28 Welds and attachment not in accordance with M-190-H10C-5027-5						
				MCC-50-H32 Welds not in accordance with M-190-H10C-5029-4						
				MCC-50-H33 - Not installed						
				MCC-50-H34 Welds not in accordance with M-190-H10C-5033-4						
				MCC-50-H35 Welds not in accordance with M-190-H10C-5034-5						
				MCC-50-H36 Welds not in accordance with M-190-H10C-5035-4						
				MCC-50-H37 Welds not in accordance with M-190-H10C-5036-7						
				MCC-50-H39 Welds not in accordance with M-190-H10C-5038-5						
				MCC-50-H40 Structural Members not in accordance with M-190-H10C-5039-5						
				MCC-50-H42 Welds not in accordance with M-190-H10C-5041-6						
				MCC-50-H43 Welds not in accordance with M-190-H10C-5042-5						
				Extra Hanger UH-1 located next to MCC-50-H9						
				Extra Hanger UH-2 located between MCC-50-H10 and MCC-50-H11						
				Extra Hanger UH-3 located between MCC-50-H11 and MCC-50-H12						
				Extra Hanger UH-4 located next to MCC-50-H19						
				Extra Hanger UH-5 located next to MCC-50-H20						
				Extra Hanger UH-6 located next to MCC-50-H31						

IE BULLETIN 79-14 DESCAIPTION OF INSPECTION RESULTS

BY Langfitt DATE 9/28/79

CHECKED Conf DATE 9/30/79

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-50-H44 Extra Hanger UH-8 located between HCC-50-H47 and Anchor A384 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-H21 Spans Seismic Joint					
			X	Evaluation			*** Yes	X		
102F	10									
		X		Evaluation	X		No	X		
102G	11			Anchor AA23 Configuration/Structural Members not in accordance with C-831 Anchor AA24 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 AA24 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 AA27 Structural Members not in accordance with C-657 HCC-40-H103 Configuration not in accordance with M-190-H10E-AA002-1 Anchor A-428 moved 1'-6½ North-West					
			X	Evaluation			** Yes	X		

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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 ENG/CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY UNAFFECTED	SYSTEM OPERABILITY AFFECTED	SYSTEM OPERABILITY 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							

BY [illegible] DATE 9/20/79

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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'-1¼" East						
				Evaluation	X		No	X		

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

BY [illegible] DATE 10/13/79

CHECKED [illegible] DATE 10/13/79

SYSTEM DRAINAGE SYSTEM

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES NO	DISCREPANCIES YES	IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS OR DAC/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY UNAFFECTED	SYSTEM OPERABILITY AFFECTED	IF AFFECTED REFER TO REMARK NO.
101T	64			Support No. 230 Configuration/ welds/clearances not in accordance with M-260-75-1 Support No. 245 Configuration/welds/not in accordance with M-260-75-1 Support No. 205 Configuration/welds not in accordance with M-260-75-1 Support No. 180 Configuration/welds not in accordance with M-260-75-1 Support No. 155 Configuration/welds/clearances not in accordance with M-260-75-1 Support No. 125 Configuration/welds not in accordance with M-260-75-1 Support No. 90 Welds not in accordance with M-260-74-1 Extra Support SU-1 located next to No. 125 Extra Support Su-2 located next to No. 180 Extra Support Su-3 located next to No. 205 Extra Support SU-4 located next to No. 230 55 has been relocated to horizontal run. was X-Z Restraint. Now is X+Y Restraint 180 moved 2'-6" West A-26 has been relocated to a horizontal run. Pipe configuration has changed. Dimension at H-8 changed from 6'-6" to 5'-3".					
			X	Evaluation			** Yes	X		
101Q	63			Support M-25 Welds/Structural Members not in accordance with M-260-40-1 Support M-35 Welds not in accordance with M-260-41-1 Support M-40 Welds/Structural Members not in accordance with M-260-42-1 Support M-45 Welds/Structural Members not in accordance with M-260-42-1 Support M-90 not installed Support M-95 not installed Support M-105 not installed Support M-120 configuration/Welds not in accordance with M-260-44-1 Support M-160 not installed Anchor A-1 Pipe not embedded, Anchor point missing Extra Support AH-4 located on 4"-MSD Extra Support AH-5 located on 4"-MSD Extra Support AH-6 located on 4"-MSD Extra Support AH-7 located on 4"-MSD Extra Support AH-8 located on 4"-MSD Extra Support AH-9 located on 4"-MSD (Continued)					

BY [illegible] DATE 9/20/79

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 NO	DISCREPANCIES YES	IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS OR DWG/ CALC CNCS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY UNAFFECTED	SYSTEM OPERABILITY 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			**			4
			X	Evaluation			Yes	X		

BY [signature] DATE 9/20/79

CHECKED [signature] DATE 9/20/79

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 12¼" South HSC-29-H22 moved 19" South Length of pipe 3HSC-27 (G-8) shortened to 2'-3"			**			
			X	Evaluation			Yes	X		

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BY [illegible] DATE 10/13/79

CHECKED Chuf DATE 10/18/79

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM: DRAINAGE 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.
101Q	63			No Anchor at D.P. 260 Connection for D.P. 225 has been relocated Connection for D.P. 210 has been relocated No Hangers at D.P.s 90, 95, 105 and 160 Dimension 2'-2" at G-8 is 20'-5" on math model Dimension 14'-6" at H58 is 15'-3" on math model						
			X	Evaluation			** Yes	X		
101K	62			Anchor A-1 Structural Member not in accordance with M-260-34-1 Anchor A-2 Structural Member not in accordance with M-260-34-1 H35 Configuration not in accordance with M-260-35-1 Extra Hanger (H-102) located on 4"-LGE next to Anchor A-2 Extra Hanger (H-103) located on 4"-LGE below slab at El. 610'-0" Extra Hanger (H-104) located on 4"-LGE between Hanger 35 and slab at El. 595'-0" Extra Hanger (H-105) located on 4"-LGE below floor slab at El. 595'-0"						
			X	Evaluation			** Yes	X		
101L	62			Extra Hanger (H-106) located on 4"-LGE below floor slab at El. 623'-0" Hanger 45 Extra Hanger (H-107) located on 4"-LGE between floor slab at El. 614'-0" and Hanger 35 Extra Hanger (H-108) located on 4"-LGE between floor slab at El. 603'-0" and Hanger 35 Extra Hanger (H-100) located on 4"-LFE between Anchor A-1 and penetration C-22 A-1 moved 2'-6" South D.P. 15 doesn't show hanger 45 moved 1'-10" up						
			X	Evaluation			** Yes	X		
101P	62			Two Supports are missing at D.P. 20 & 40						
			X	Evaluation			** Yes	X		

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BY [illegible] DATE 10/15/79

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM: DRAINAGE 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	IF AFFECTED REFER TO REMARK NO.
101M	62			Anchor A-1 Welds not in accordance with M-260-16-1						
				Anchor A-2 Welds not in accordance with M-260-17-1						
				Anchor A-3 not installed						
				H30 Clearances not in accordance with M-260-95-1						
				H75 Configuration not in accordance with M-260-96-1						
				H105 Configuration not in accordance with M-260-82-1						
				H115 Configuration not in accordance with M-260-83-1						
				H150 Configuration not in accordance with M-260-83-1						
				Extra Hanger (E-1) located on 4"-LGE next to Hanger 30						
				Extra Hanger (E-2) located on 4"-LGE next to Hanger 30						
				Extra Hanger (E-3) located on 4"-LGE next to Hanger 30						
				Extra Hanger (E-4) located on 4"-LGE between Hangers 30 & 40						
				Extra Hanger (E-5) located on 4"-LGE between Hangers 75 & 105						
				Extra Hanger (E-6) located on 4"-LGE between Hangers 105 & 115						
				Extra Hanger (E-7) located on 4"-LGE between Hangers 105 & 115						
				Extra Hanger (E-9) located on 4"-LGE between Hanger 150 and penetration C-20						
				Extra Hanger (E-8) located on 4"-LGE between Hangers 125 & 150						
				Extra Hanger (E-10) located on 4"-LGE next to Anchor A-1						
				Extra Hanger (E-11) located on 4"-LGE next to Hanger 75						
				D.P. 40 moved 2'-0" South						
				A-2 moved 1'-4" South						
				115 moved 1'-11" South						
				125 moved 1'-2" South						
			X	Evaluation			** Yes	X		
101N	62			Anchor A-1 Configuration not in accordance with M-260-101-1						
				H50 Configuration not in accordance with M-260-100-1						
				Extra Hanger (E-12) located on 4"-LGE next to Hanger 35						
				Extra Hanger (E-13) located on 4"-LGE between Hanger 50 and Anchor A-1						
				A-3 moved 3'-2" North						
			X	Evaluation			** Yes	X		
101Ø	62			Penetration No. C26 minimum clearance is 1"						
				Anchor A-1 Configuration/Structural member not in accordance with M-260-38-1						
				Extra Hanger (E-110) located on 4"-LGE next to Anchor A-1						
				A-1 moved 1'-7" North						
			X	Evaluation			** Yes	X		

BY [illegible] DATE 10/13/79

CHECKED [illegible] DATE 10/15/79

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM: DRAINAGE 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	IF AFFECTED REFER TO REMARK NO.
201B	65			Piping installation not in accordance with M-180 (P-1)						
				Hanger No. 30 welds not in accordance with M-260-5-1						
				Hanger No. 45 welds not in accordance with M-260-6-1						
				Hanger No. 155 welds not in accordance with M-260-2-1						
				Hanger No. 170 welds not in accordance with M-260-3-1						
				Extra Hanger UH-1 located next to Hanger No. 30						
				Extra Hanger UH-2 located next to Hanger No. 30						
				Extra Hanger UH-3 located next to Hanger No. 30						
				Extra Hanger UH-4 located next to Hanger No. 45						
				Extra Hanger UH-5 located next to Hanger No. 45						
				Extra Hanger UH-6 located next to Hanger No. 70						
				Extra Hanger UH-7 located next to Hanger No. 70						
				Extra Hanger UH-8 located next to Hanger No. 70						
				Extra Hanger UH-9 located next to Hanger No. 70						
				Extra Hanger UH-10 located next to Anchor A-1						
				Support at 30 moved 22" West						
				Support at 155 moved 14½" North						
			X	Evaluation			** Yes	X		
101C	65			Hanger No. 25 welds not in accordance with M-260-84-1						
				Hanger No. 40 welds not in accordance with M-260-85-1						
				Hanger No. 70 welds not in accordance with M-260-87-1						
				Extra Hanger UH-11 located next to Hanger No. 70						
				Extra Hanger UH-12 located next to Hanger No. 65						
				Extra Hanger UH-13 located next to Hanger No. 95						
				Extra Hanger UH-14 located next to Hanger No. 95						
				Extra Hanger UH-15 located next to Hanger No. 95						
				Extra Hanger UH-16 located next to Hanger No. 40						
				Extra Hanger UH-17 located next to Hanger No. 40						
				Extra Hanger UH-18 located next to Hanger No. 25						
				Extra Hanger UH-19 located next to Hanger No. 25						
				Extra Hanger UH-48 located next to Hanger No. 25						
				Extra Hanger UH073 located next to Hanger No. 95						
			X	Evaluation			** Yes	X		

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BY [illegible] DATE 10/13/79

CHECKED [illegible] DATE 10/13/79

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM DRAINAGE SYSTEM

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES NO	DISCREPANCIES YES	IF YES, DESCRIPTION / 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.
101D	65			Piping installation not in agreement with M-180 (P-6)						
				Hanger No. 25 configuration not in accordance with M-260-89-1						
				Hanger No. 45 welds not in accordance with M-260-90-1						
				Hanger No. 75 welds not in accordance with M-260-91-1						
				Hanger No. 90 welds not in accordance with M-260-[illegible]-1						
				Hanger No. 110 welds/structural members not in accordance with M-260-94-1						
				Hanger No. 120 welds/structural members not in accordance with M-260-94-1						
				Hanger No. 140 welds not in accordance with M-260-92-1						
				Hanger No. 160 welds not in accordance with M-260-12-1						
				Hanger No. 205 welds not in accordance with M-260-93-1						
				Anchor A-2 welds/configuration not in accordance with M-260-15-1						
				Anchor A-4 structural member not in accordance with M-260-15-1						
				Extra Hanger UH-20 located next to Hanger No. 25						
				Extra Hanger UH-21 located next to Hanger No. 25						
				Extra Hanger UH-22 located next to Hanger No. 45						
				Extra Hanger UH-23 located next to Hanger No. 90						
				Extra Hanger UH-24 located next to Hanger No. 90						
				Extra Hanger UH-25 located next to Hanger No. 110						
				Extra Hanger UH-26 located next to Anchor A-4						
				Extra Hanger UH-27 located next to Hanger No. 110						
				Extra Hanger UH-28 located next to Hanger No. 120						
				Support at 45 moved 7'-1" North						
				Support at 50 moved 1'-5" South						
			X	Evaluation			** Yes	X		
101F	65			Piping installation not in accordance with M-180 (P-13)						
				Hanger No. 50 welds not in accordance with M-260-59-2						
				Hanger No. 60 welds/configuration not in accordance with M-260-56-2						
				Hanger No. 100 welds not in accordance with M-260-56-2						
				Hanger No. 115 welds not in accordance with M-260-55-1						
				Hanger No. 135 welds/configuration not in accordance with M-260-57-1						
				Hanger No. 165 welds/configuration not in accordance with M-260-54-2						
				Hanger No. 170 welds/configuration not in accordance with M-260-57-2						
				Hanger No. 185 welds not in accordance with M-260-56-2						
				Hanger No. 205 welds not in accordance with M-260-56-2						
				Hanger No. 220 welds not in accordance with M-260-56-2						
				Hanger No. 225 welds/configuration not in accordance with M-260-60-1						
				Hanger No. 250 welds/configuration not in accordance with M-260-56-2						

CONTINUED

BY [illegible] DATE 10/4/79

CHECKED Chf DATE 10/12/79

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM: DRAINAGE 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	IF AFFECTED REFER TO REMARK NO.
1017 Cont'd.	65			Hanger No. 375 welds not in accordance with M-260-110-1						
				Hanger No. 380 configuration not in accordance with M-260-69-1						
				Hanger No. 385 welds/configuration not in accordance with M-260-111-1						
				Hanger No. 405 welds not in accordance with M-260-69-1						
				Hanger No. 415 welds not in accordance with M-260-69-1						
				Hanger No. 425 welds not in accordance with M-260-69-1						
				Hanger No. 435 welds not in accordance with M-260-69-1						
				Hanger No. 450 welds not in accordance with M-260-70-1						
				Hanger No. 485 welds not in accordance with M-260-70-1						
				Extra Hanger UH-57 located next to Anchor A-2						
				Extra Hanger UH-58 located next to Anchor A-2						
				Extra Hanger UH-59 located next to Hanger No. 100						
				Extra Hanger UH-60 located next to Hanger No. 100						
				Extra Hanger UH-61 located next to Hanger No. 115						
				Extra Hanger UH-62 located next to Hanger No. 115						
				Extra Hanger UH-63 located next to Hanger No. 115						
				Extra Hanger UH-64 located next to Hanger No. 250						
				Extra Hanger UH-65 located next to Hanger No. 385						
				Extra Hanger UH-66 located next to Hanger No. 155						
				Extra Hanger UH-67 located next to Hanger No. 170						
				Extra Hanger UH-68 located next to Hanger No. 185						
				Extra Hanger UH-69 located next to Hanger No. 205						
				Extra Hanger UH-70 located next to Hanger No. 220						
				Extra Hanger UH-71 located next to Hanger No. 225						
				Support at 225 moved 3'-9" North						
				Support at 220 moved 2'-9" North						
				Support at 205 moved 2'-7" North						
				Support at 185 moved 2'-0" West						
				Support at 155 moved 1'-7" West						
			X	Evaluation			** Yes	X		

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

BY [illegible] DATE 10/31/79

CHECKED [illegible] DATE 10/31/79

SYSTEM DRAINAGE 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	IF AFFECTED REFER TO REMARK NO.
1011	65			Piping Installation not in accordance with M-180 (P-8)						
				Hanger No. 25 welds/configuration not in accordance with M-260-25-1						
				Hanger No. 40 welds/configuration not in accordance with M-260-25-1						
				Hanger No. 55 welds not in accordance with M-260-25-1						
				Hanger No. 75 welds/configuration not in accordance with M-260-26-1						
				Hanger No. 90 configuration not in accordance with M-260-26-1						
				Hanger No. 110 configuration not in accordance with M-260-26-1						
				Hanger No. 130 strucutral member not in accordance with M-260-28-2						
				Hanger No. 135 configuration not in accordance with M-260-61-1						
				Hanger No. 145 structural member not in accordance with M-260-28-2						
				Hanger No. 175 structural member not in accordance with M-260-28-2						
				Hanger No. 190 structural member not in accordance with M-260-28-2						
				Hanger No. 235 welds/configuration not in accordance with M-260-61-1						
				Hanger No. 250 welds not in accordance with M-260-27-1						
				Hanger No. 270 welds not in accordance with M-260-27-1						
				Hanger No. 285 weld/configuration not in accordance with M-260-27-1						
				Hanger No. 315 welds not in accordance with M-260-29-1						
				Hanger No. 325 welds not in accordance with M-260-30-1						
				Hanger No. 355 welds/configuration not in accordance with M-260-112-1						
				Extra Hanger UH-29 located next to Hanger No. 450						
				Extra Hanger UH-30 located next to Hanger No. 450						
				Extra Hanger UH-31 located next to Hanger No. 450						
				Extra Hanger UH-32 located next to Hanger No. 485						
				Extra Hanger UH-33 located next to Hanger No. 425						
				Extra Hanger UH-34 located next to Hanger No. 425						
				Extra Hanger UH-35 located next to Hanger No. 415						
				Extra Hanger UH-36 located next to Hanger No. 405						
				Extra Hanger UH-37 located next to Hanger No. 285						
				Extra Hanger UH-38 located next to Hanger No. 270						
				Extra Hanger UH-39 located next to Hanger No. 325						
				Extra Hanger UH-40 located next to Hanger No. 325						
				Extra Hanger UH-41 located next to Hanger No. 270						
				Extra Hanger UH42 located next to Hanger No. 250						

CONTINUED

BY [illegible] DATE 10/11/79

CHECKED [illegible] DATE 10/13/79

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

SYSTEM DRAINAGE 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	IF AFFECTED REFER TO REMARK NO.
1011 Cont'd.	65			Extra Hanger DH-43 located next to Hanger No. 90						
				Extra Hanger DH-44 located next to Hanger No. 55						
				Extra Hanger DH-45 located next to Hanger No. 55						
				Extra Hanger DH-46 located next to Hanger No. 40						
				Extra Hanger DH-47 located next to Hanger No. 25						
				Extra Hanger DH-49 located next to Hanger No. 375						
				Extra Hanger DH-50 located next to Hanger No. 385						
				Extra Hanger DH-51 located next to Hanger No. 385						
				Extra Hanger DH-52 located next to Hanger No. 175						
				Extra Hanger DH-53 located next to Hanger No. 175						
				Extra Hanger DH-54 located next to Hanger No. 175						
				Extra Hanger DH-55 located next to Hanger No. 190						
				Extra Hanger DH-56 located next to Anchor No. A-1						
				Extra Hanger DH-72 located next to Hanger No. 130						
				Extra Hanger DH-74 located next to Hanger No. 110						
				Extra Hanger DH-75 located next to Hanger No. 90						
				Extra Hanger DH-76 located next to Hanger No. 145						
				Support at 25 moved 1'-5" East						
				Support at 40 moved 3'-10" North						
				Support at 175 moved 3'-0" down						
				Support at 190 moved 1'-4" down						
			X	Evaluation			** Yes	X		