



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.

OCT 22 1979

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THE TOLEDO EDISON COMPANY EDISON PLAZA 300 MADISON AVENUE TOLEDO, OHIO 43652

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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

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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.

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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 (***).

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

PAGE 1 OF 62
 BY Wally Grel DATE 10/13/97
 CHECKED Cliff DATE 10/13/97

SYSTEM MAIN STEAM

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES		OK AS IS OR ENG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY		
		NO	YES				UNAFFECTED	AFFECTED	IF AFFECTED REFER TO REMARK NO.
41A	3		X					X	
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 MC, RB, RA, 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						++ Yes			
Evaluation									
40A	4,5		X					X	
EBD-2-H29 Welds not in accordance with M-190-H03J-228-3 EBD-19-H49 moved 13 1/4" South EBD-19-H136 moved 1'-6" up (was below floor) 19-H39 moved 5'-1 1/4" 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						+++ Yes		X	
Evaluation									
40B	3 4		X					X	
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						++ Yes		X	
Evaluation									
40C	4		X					X	
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 is accessible						++ Yes		X	
Evaluation									

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

BY Kay J. J. DATE 10/18/79
 CHECKED Conf DATE 10/18/79

SYSTEM MAIN STEAM

STRESS CALCULATION NO.	WALDOFF PACKAGE NO.	DISCREPANCIES			OK AS IS OR CALC CHGS R	CORRECT TO ORIGINAL D	ANALYSIS REQUIRED	UNAFFECTED	AFFECTED	IF AFFECTED REFER TO REMARK NO.
		NO	YES	IF YES, DESCRIPTION OF DISCREPANCIES						
120B	5		X	Anchor A-2 not installed <						

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

PAGE 3 OF 42
BY Wally J. J. DATE 1/19/74
CHECKED Chf DATE 10/13/79SYSTEM MAIN STEAM

SYSTEM		MAIN STEAM		DISCREPANCIES		OK AS IS (✓) / CALC CHGS (✗) (D)	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY		
STRESS CALCULATION NO.	VALVE/NOON PACKAGE NO.	NO	YES	IF YES, DESCRIPTION OF DISCREPANCIES	UNAFFECTED				AFFECTED	IF AFFECTED REFER TO REMARK NO.	
120C	5		X	EBB-2-H11 Weld not in accordance with M-190-H03J-210-3 Evaluation				* Yes	X		
10A	1		X	SR-11 moved 4'-2 1/4" 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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POOR ORIGINAL

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

PAGE 4 OF 62
 BY Kalyan DATE 9/20/79
 CHECKED Chf DATE 9/30/79
10/13/79

SYSTEM AUXILIARY FEEDWATER

STRESS CALCULATION NO.	WELDING PACKAGE NO.	DISCREPANCIES		OR AS IS OR CALC CHGS REQ	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	UNAFFECTED	AFFECTED	IF AFFECTED REFER TO REMARK NO.
		NO	YES						
1B	6		X	HED-14-H1 Welds not in accordance with M-190-H06F-1400-8 HED-14-H7 not in accordance with M-190-H06F-1406-6 Evaluation			* Yes	X	
1C	6		X	HED-14-H17A Welds not in accordance with M-190-H17A-1416B-4 HED-14-H19A Welds not in accordance with M-190-H06F-1418A-4 HED-14-H16 Spans Areas 7 and 8 Evaluation			*** Yes	X	
2B	6		X	HED-14-H35 moved 14" South Envelope of areas 7 and 9 should be used in the analysis Evaluation			*** Yes	X	
2C	6		X	Extra Hanger located on 6" - HED-137 between Anchor A8 and HED-137-B8 HED-14-H90 moved 1'-9" South HED-14-H74 moved 2'-10" East Evaluation			** Yes	X	
23A	7	X		Evaluation	X		No		
23B	7	X		Evaluation	X		No		
23C	7		X	HED-272-H5 Not in accordance with M-190-H06G-27204-7 Extra Support UN-1 located between HED-22-H5 and HED-22-H8 HED-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	
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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

PAGE 5 OF 62

BY Calypso DATE 10/17/74
CHECKED Conf DATE 10/3/79SYSTEM STEAM GENERATOR DRAINS

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES				OK AS IS OR D CALC CHGS REQ	CORRECT TO ORIGINAL DESI	ANALYSIS REQUIRED	OPERABILITY		
		NO	YES	IF YES, DESCRIPTION OF DISCREPANCIES	UNAFFECTED				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 13½" Down Evaluation			** Yes	X			
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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

 PAGE 6 OF 62
 BY K. J. J. DATE 7/27/79
 CHECKED Conf DATE 9/30/79
10/13/79
SYSTEM FEEDWATER

STRESS CALCULATION NO.	WALKDOWN PACKAGES NO.	DISCREPANCIES		OK AS IS OR CALC CHGS REQD	CORRECT TO ORIGINAL DES	ANALYSIS REQUIRED	UN AFFECTED	A FECTED	IF AFFECTED REFER TO REMARK NO.
		NO	YES						
42B	9			EBD-12-SR20 Structural Member not in accordance with C-619 EBD-12-SR21 Structural Member not in accordance with C-619 Extra Support UR-1 located between EBD-12-SR27 and EBD-12-SR13 12-SR30 moved 1'-8"S. 12-SR39 moved 12 1/4"E. 12-SR40 moved 12 1/4"E. 12-SR42 moved 1'-4 3/4"W. The weight of Valve 15-1 used in seismic analysis differs from vendor supplied weight.					
			X	Evaluation		*** Yes		X	
42D	9			Anchor A-171 moved 5'1 3/4" East Weight of valve A15-2 differs from vendor supplied weight					
			X	Evaluation		*** Yes		X	
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POOR ORIGINAL

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

PAGE 7 OF 42
 BY W. J. H. DATE 9/20/79
 CHECKED C. J. DATE 9/20/79

SYSTEM HYDROGEN DILUTION

STRESS CALCULATION NO.		WALKDOWN PACKAGE NO.		DISCREPANCIES		OK AS IS OR (MIG/ CALC CHGS REQD)	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY		IF AFFECTED REFER TO REMARK NO.
NO	YES	IF YES, DESCRIPTION OF DISCREPANCIES		UNAFFECTED	AFFECTED						
119E	25		X	HBC-44-H5 Additional Load Attached HCB-49-H1 Welds not in accordance with Grinnell SK. B-4900 HCB-49-H2 Welds not in accordance with Grinnell SK. B-4901 HCB-44-H-10 moved 13" South HCB-44-H-7 moved 14 1/2" South HCB-44-H-2 moved 15" Up Support HCB-44-H10 Spans areas 7 & 9 Envelope of these 2 areas should be considered in analysis. Evaluation				*** yes	X		
119D	25		X	HBC-74-H3 Welds not in accordance with Grinnell SK. 11-7402 HBC-74-H10 Welds not in accordance with Grinnell SK. 11-7400 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		X	HBB-16-H1 Welds not in accordance with M-190-H29-1600-3 HBB-16-H2 moved 1'-10" North Evaluation				** yes	X		
119H	25		X	Extra Support No. 1 located next to HBC-73-H9 Evaluation			X	no	X		
119I	25		X	Evaluation		X		no	X		
119J	25		X	HBC-73-H4 Welds not in accordance with Grinnell SK. 11-7303 HBC-73-H7 Welds not in accordance with Grinnell SK. 11-7306 HBC-73-H8 Welds not in accordance with Grinnell SK. 11-7307 Evaluation				* yes	X		
119K	25		X	HBC-73-H6 Welds not in accordance with Grinnell SK. 11-7305 Evaluation				* yes	X		
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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

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 BY halyne DATE 10/14/79
 CHECKED Cuf DATE 10/13/79

SYSTEM REACTOR COOLANT DRAIN AND GASEOUS WASTE

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES		OK AS IS OR CALC CHGS R	CORRECT TO ORIGINAL D	ANALYSIS REQUIRED	UNAFFECTED	AFFECTED	IF AFFECTED REFER TO REMARK NO.				
		NO	YES							IF YES, DESCRIPTION OF DISCREPANCIES			
78A	49			HSC-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 UM-1 located next to HSC-42-H37 Extra support UM-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 15 1/2" East HCB-42-H33 moved 10'-9" South HCB-42-H34 moved 16" South Weight of valve HVL119B used in analysis differs from vendor supplied weight Envelope of 7 and 9 should be used in analysis									
			X	Evaluation			*** Yes	X					
78B	45 49			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									
			X	Evaluation			*** Yes	X					
78C	49			Evaluation		X	No	X					
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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

BY haghe DATE 9/24/74
 CHECKED Carl DATE 9/30/79

SYSTEM QUENCH TANK DRAIN

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES		IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS OR DMG/ CALC. CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY		IF AFFECTED REFER TO REMARK NO.
		NO	YES					UNAFFECTED	AFFECTED	
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 12 1/2" down Envelope of 7 and 9 should be used in seismic analysis Evaluation			yes	x		
58D	48		x	HSC-19-H5 Welds not in accordance with M-190-H40B-1904-2 HSC-19-H7 Welds not in accordance with M-190-H40B-1906-2 HSC-19-H8 Welds not in accordance with M-190-H40B-1907-1 HSC-19-H9 Welds not in accordance with M-190-H40B-1908-2 40 HSC 19-H2 moved 11'-8" West 40 HSC 19-H6 moved 13" West 40 HSC 19-H9 moved 14" West Evaluation			yes	x		

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

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 BY haly DATE 9/20/79
 CHECKED Am DATE 9/20/79
10/15/79
SYSTEM MAKEUP AND PURIFICATION

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES		OK AS IS OR CALC CHGS	CORRECT TO ORIGINAL D	ANALYSIS REQUIRED	UNAFFECTED	AFFECTED	IF AFFECTED REFER TO REMARK NO.										
		NO	YES							IF YES, DESCRIPTION OF DISCREPANCIES									
81	27		X	31-BCC-2-H5 lowered 15 1/2"															
							</												

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SYSTEM MAKEUP AND PURIFICATION

SYSTEM MAKEUP AND PURIFICATION				OK AS IS OR MCG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY	
STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	NO	YES				UNAFFECTED	AFFECTED IF AFFECTED REFER TO REMARK NO.
DISCREPANCIES								
IF YES, DESCRIPTION OF DISCREPANCIES								
69D	28		X	Extra Support H "A" located between Anchor A368 and CCB-15-H5 Extra Support H "B" located 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 Evaluation		** Yes	X	
69E	28		X	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 Evaluation		** Yes	X	
80C	26		X	(SA) 31-HCC-35-H103, H104 not accessible Evaluation		** Yes	X	
70	26		X	31-CCB-9-H1 located in Area 9 Evaluation		*** Yes	X	
70A	26		X	HCC-35-H-13 not installed Anchor A-166 structural members not in accordance with C-882 HCC-1-H3 welds/structural 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 stress iso Evaluation		** Yes	X	
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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

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BY Kalyan DATE 10/13/79
CHECKED Chaf DATE 10/13/79SYSTEM MAKEUP AND PURIFICATION

STRESS CALCULATION NO.	VALVE PACKAGE NO.	DISCREPANCIES		IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS OR ENG/ CALC CHGS REQ	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY		IF AFFECTED REFER TO REMARK NO.	
		NO	YES					UNAFFECTED	AFFECTED		
69A	26 28 32			<p>HSC-66-H16 welds not in accordance with M-190-H31B-6619-7</p> <p>HSC-66-H26 structural member not in accordance with M-190-H31B-6625-2</p> <p>HCC-5-H5 welds not in accordance with M-190-H31D-504-3</p> <p>HCC-5-H7 welds not in accordance with M-190-H31D-506-2</p> <p>HSC-62-H1 welds not in accordance with M-190-H31D-6200-2</p> <p>HSC-62-H2 configuration not in accordance with M-190-H31D-6201-3</p> <p>Extra hanger UR-1 located between anchor A-4 and HCC-124-H4</p> <p>HSC-71-H3 structural member not in accordance with M-190-H40C-7102-3</p> <p>HSC-71-H4 welds not in accordance with M-190-H40C-7103-5</p> <p>HSC-71-H6 welds/configuration not in accordance with M-190-H40C-7105-3</p> <p>HSC-71-H8 snubber piston position not in accordance with M-190-H40C-7107-4</p> <p>HSC-71-H10 snubber piston position not in accordance with M-190-H40C-7109-1</p> <p>HSC-71-H13 configuration not in accordance with M-190-H40C-7112-2</p> <p>HSC-5-H6 moved 15 1/4" North on branch line</p> <p>Weight of the valve PSV-1893 used in analysis differs from vendor supplied weight</p> <p>Envelope of areas 7 and 8 should be used in analysis</p> <p style="text-align: right;">Evaluation</p>							
			X						Yes	X	

1265 176

IF YES, DESCRIPTION OF DISCREPANCIES

1265 177

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

 BY haley DATE 9/20/79
 CHECKED Conf DATE 10/1/79
9/20/79
10/1/79
SYSTEM LOW PRESSURE INJECTION

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES		OK AS IS OR ENG/ CALC CHGS REQ	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY		IF AFFECTED REFER TO REMARK NO.
		NO	YES				UNAFFECTED	AFFECTED	
18B	33		X			*** Yes	X		
18F	33		X			*** Yes	X		
45B	33		X			*** Yes	X		
45C	33		X			*** Yes	X		
80A	26 33 37		X			*** Yes			

1265 178

SYSTEM HIGH PRESSURE INJECTION

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES		OK AS IS OR CALC CHGS REQD	CORRECT TO ORIGINAL D	ANALYSIS REQUIRED	UNAFFECTED	AFFECTED	IF AFFECTED REFER TO REMARK NO.
		NO	YES						
53	32		X	Anchor A055 moved up 14 1/4" CCB-19-H12 moved up 2'-1 1/4" CCB-2-H18A moved up 10 1/4" CCB-19-H9 moved 13 1/4" east CCB-19-H7 moved 2'-6 1/4" north CCB-19-H8 moved 18 1/4" north Pipe CCB-19 (H7 & H8) was 7'-8 1/4" long CCB-19-H6 moved 12 1/4" 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'-11 1/4" east of CCB-19-H1 CCB-12-H1 moved 14 3/8" west Support H3 span 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 WCC-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 23 1/4" north Anchor A-055 moved up 14 1/4" Evaluation ** Yes X					
56B2	32		X	The weight of the valve HV-HF2B used in the analysis differs from the vendor supplied weight. Envelope of Areas 7 & 9 should be used in the analysis. Evaluation *** Yes X					
1265 179									

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

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 BY halye DATE 9/2/79
 CHECKED Chaf DATE 9/20/79
10/18/79
SYSTEM HIGH PRESSURE INJECTION

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES		OK AS IS OR BUC/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY		
		NO	YES				UNAFECTED	AFFECTED	IF AFFECTED REFER TO REMARK NO.
56C	32		X			* Yes	X		
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 Evaluation									
56D	32		X			** Yes	X		
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 Evaluation									
56E	32		X			** Yes	X		
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-H15 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" Evaluation									
56F	32		X			** Yes	X		
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 Evaluation									
56H3	28 32		X			*** Yes	X		
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 Evaluation									

1265 180

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

BY W. J. G. J. G. DATE 10/13/79
CHECKED Cal DATE 10/13/79SYSTEM EMERGENCY CORE COOLING

STRESS CALCULATION NO.	WALKDOWN PACKAGES NO.	DISCREPANCIES		OR AS IS OR CALC CHGS	CORRECT TO ORIGINAL D	ANALYSIS REQUIRED	UNAFFECTED	AFFECTED	IF AFFECTED REFER TO REMARK NO.
		NO	YES						
32A	29			MCB-2-H18 moved 2'-4½" East					
	30			MCB-2-H17A moved 12½" West					
				Weight of valve HV-DH9A used in the analysis differs from the vendor supplied weight					
			X	Evaluation		*** Yes	X		
32B	30			GCB-8-B8 welds not in accordance with M-190-H33B-807-6					
				Weight of valve B97-2 differs from the vendor supplied weight					
			X	Evaluation		*** Yes	X		
32D	29			GCB-2-H11 moved 15" West					
	30			MCB-3-H11 moved 13" South					
	33			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					
			X	Evaluation		*** Yes	X		

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POOR ORIGINAL

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

BY Wally DATE 10/13/79
 CHECKED Chf DATE 10/13/79

SYSTEM EMERGENCY CORE COOLING

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.			DISCREPANCIES	OK AS IS OR DMG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY		IF AFFECTED REFER TO REMARK NO.
		NO	YES					UNAFECTED	AFFECTED	
18C	30		X	GCB-4-H6 moved 8" down Weight of valve B25-2 used in the analysis differs from vendor supplied weight Evaluation			*** Yes	X		
25	29		X	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 15 1/4" West 33A-HCB-2-H27 moved 10" East Evaluation			*** Yes	X		
125P	29		X	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" (8A) 33A-HCC-93-H2 moved down 11'-2 1/4" (8A) 33A-HCC-93-H6 not in the math model Evaluation			** Yes	X		
125Q	29		X	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		

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POOR ORIGINAL

SYSTEM CONTAINMENT SPRAY

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES		OK AS IS OR ENG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY		
		NO	YES				UNAFFECTED	AFFECTED	IF AFFECTED REFER TO REMARK NO.
19A			X				*** Yes	X	
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									
19B	36		X				*** Yes	X	
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 MCC-38-H3 Structural Member not in accordance with M-190-H34D-3802-5 Extra Hanger UH-3 located between Anchor A80 and MCC-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									
19C	36		X				*** Yes	X	
MCC-38-H7 Clearances and additional loading not in accordance with SK-14-3806 MCC-38-H8 Welds not in accordance with SK-14-3807 MCC-38-H9 Configuration of additional Hanger not in accordance with SK-14-3808 MCC-38-H11 Structural Member size, shim size, and clearance not in accordance with M-190-H34D-3810-6 MCC-38-H12 Welds not in accordance with M-190-H34D-3811-4 MCC-38-H13 Additional loads attached to Hanger Anchor A-81 moved 1'-6" West MCC-38-E8 moved 1'-7" East Support MCC-38-H12 Spans Areas 7 and 9 Envelope of Areas 7 & 9 should be used in analysis Evaluation									
19F	36		X				*** Yes	X	
MCC-37-H17 Shims, Wrapper Plate and Associated Welds not in accordance with M-190-H34D-3716-3 Extra hanger UH-1 located between MCC-37-H14 and MCC-37-H15 Extra hanger UH-2 located between MCC-37-H14 and MCC-37-H15 Extra hanger UH-4 located between MCC-37-H15 and MCC-37-H16 MCC-37-H17 moved 1'-3 1/2" West Envelope of areas 7 & 8 need be considered in seismic analysis Evaluation									

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POOR ORIGINAL

SYSTEM CONTAINMENT SPRAY

STRESS CALCULAT NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES		OK AS IS OR ENG/ CALC CRGS REQ	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY	
		NO	YES				UNAFFECTED	IF AFFECTED REFER TO REMARK NO.
21A	35		X			*** Yes	X	
Anchor A110 moved 13 1/8" South Envelope of area 7 should be included in the analysis Evaluation								
21B	35		X			** Yes	X	
34 HCC-38 H-22 moved 1" North S.A. 34 HCC-38 H21 moved 1 1/2" East S.A. 34 HCC-38 H19 moved 3 1/2" 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								
19D	36		X			*** Yes	X	
HCB-9-H10 additional loads attached to hanger HCB-9-H18 welds not in accordance with M-190-H34D-917-8 37 HCB-9-H19 Load-Carrying member not in accordance with M-190-H34D-918-7 HCB-9-H30 moved 12 1/2" 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								
19E	35		X			*** Yes	X	
HCC-37-H7 hanger and baseplate not in accordance with M-190-H34D-3706-8 36 HCC-37-H9 baseplate not in accordance with M-190-H34D-3708-8 HCC-37-H10 moved 1'-4 1/2" East Support HCC-37-H10 spans areas 7 and 8 Alternate supports attached to areas 7 and 8 Evaluation								
18D	33 36		X			*** Yes	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 GCB-6-H12 moved 3" away from shield building GCB-6-H13 moved 7" up GCB-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 2 1/2" up GCB-10-H27 moved 3 1/2" down Envelope of areas 7 and 9 should be used in the analysis Evaluation								

POOR ORIGINAL

SYSTEM SPENT FUEL POOL COOLING

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES		OK AS IS OR DMC/ CALC. CHGS REQ.	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY		IF AFFECTED REFER TO REMARK NO.
		NO	YES				UNAFFECTED	AFFECTED	
80B	37		X						
Extra Hanger H "W" located next to MCC-26-H10 Anchor A-222 moved 27" West Anchor A-231 moved 18 1/8" South 35-MCC-26-E9 moved 12 1/2" down 35-MCC-26-H11 moved 11 3/4" South									
Evaluation						** Yes	X		
93C	37 36		X						
MCC-49-E3 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 66 1/2" E, W around elbow									
Evaluation						** Yes	X		
64J	8 37		X						
Extra Hanger H "B" located next to Anchor A-368 Extra Hanger H "C" located next to HSC-32-H2 HED-61-H55 moved 2'-6 1/4" 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 B68-6 used in the analysis differs from the vendor supplied weight									
Evaluation						*** Yes	X		
93E	29		X						
HSC-122-H103 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 MCC-93-H107 and MCC-93-H109 33A-HSC-122-H111 moved 30 11/16" East 33A-HSC-122-H102 moved 12 11/16" East									
Evaluation						** Yes	X		

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

BY Wally DATE 4/13/79
 CHECKED Conf DATE 10/13/79

SYSTEM SPENT FUEL POOL COOLING

STRESS CALCULATION NO.	VALUEDOWN PACKAGE NO.	DISCREPANCIES		OK AS IS OR CALC CHGS	CORRECT TO ORIGINAL D	ANALYSIS REQUIRED	UN/AFFECTED	AFFECTED	IF AFFECTED REFER TO REMARK NO.
		NO	YES						
93	38 37		X	MCC-7-H9 Weld not in accordance with M-190-H35B-708-2 MCC-7-H5 moved 23½" West MCC-7-H8 moved 9" North MCC-7-H10 moved 1'-9½" North Differential movement between areas 7 & 8 should be considered <					

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

BY Walt DATE 10/13/79
 CHECKED Amf DATE 10/13/79

SYSTEM SPENT FUEL POOL COOLING

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES		OK AS IS CALC CHGS	CORRECT TO ORIGINAL	ANALYSIS REQUIRED	UNAFFECTED	AFFECTED	IF AFFECTED REFER TO REMARK NO.	
		NO	YES							IF YES, DESCRIPTION OF DISCREPANCIES
T-009A	38		X	MCC-21-H2 Configuration not in accordance with M-190-H35B-2101-4 MCC-21-H4 Welds not in accordance with M-190-H35B-2103-6 MCC-21-H5 Welds not in accordance with M-190-H35B-2104-6 MCC-21-H17 Welds not in accordance with M-190-H35B-2116-2 MCC-21-H18 Welds not in accordance with M-190-H35B-2117-3 MCC-21-H19 Welds not in accordance with M-190-H35B-2118-4 MCC-21-H1 moved 24 1/2" North MCC-21-H2 moved 14 1/8" East X-Restraint not on analysis Evaluation			** Yes	X		
T-009B	37 3C		X	MCC-21-H10 Structural Member not in accordance with M-190-H35B-2109-4 MCC-75-H6 Configuration not in accordance with M-190-H35B-2112-7 MCC-21-H16 moved 6'-2 3/4" West MCC-21-H11 moved 1'-8 1/2" up MCC-75-H7 moved 13 1/2" down Evaluation			** Yes	X		
T-009K	37 38		X	Extra Support EH-3 located next to MCB-10-H1 MCB-10-H1 moved 2'-1" North 35-MCC-76-H3 moved 20 1/2" South Support MCB-10-H1 spans Seismic joint Evaluation			** Yes	X		
93F	37		X	Anchor A408 moved 25 1/2" West Evaluation			** Yes	X		

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POOR ORIGINAL

SYSTEM COMPONENT COOLING WATER

STRESS CALCULATION NO.	WAT KIDG/N PACKAGE NO.	DISCREPANCIES		OK AS IS OR DMC/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY		
		NO	YES				UNAFECTED	AFFECTED	IF AFFECTED REFER TO REMARK NO.
61E	42		X		Evaluation	X	No	X	
61N	42		X		<p>HBC-3-H1 Structural Member not in accordance with M-190-H36D-300-6</p> <p>HBC-3-H2 Structural Member/Welds not in accordance with M-190-301-8</p> <p>HBC-3-H3 Welds not in accordance with M-190-H36D-302-6</p> <p>A 113 moved 3'-0" up</p> <p>HBC-3-H2 moved 14 7/8" North</p> <p>HBC-3-H3 moved 15" South</p>		** Yes	X	
61H	42 43		X		<p>HBB-1-H1 Structural Member not in accordance with M-190-H36D-100-6</p> <p>HBC-39-H4 Welds not in accordance with M-190-H36D-3903-7</p> <p>HBC-39-H9 Welds not in accordance with M-190-H36D-3908-8</p> <p>HBC-39-H16 Structural Member not in accordance with M-190-H36D-3911-7</p> <p>Extra Hanger UH-3 located next to HBC-39-H6</p> <p>A106 moved 2'-8" East</p>		** Yes	X	
61I	42		X		<p>Anchor A-114 Welds not in accordance with C-856</p> <p>HBC-3-H8 Extra Hanger attached</p>		*	Yes	X
61P	39 40 42		X		<p>HBC-10-H1 Welds not in accordance with M-190-H36A-1000-3</p> <p>HBC-10-H2 Welds not in accordance with M-190-H36-1001-3</p> <p>Support 36-HBC-10-H2 moved 1'-0 1/4" North</p>		** Yes	X	
61X	37 41		X		<p>HBC-22-H1 Welds not in accordance with M-190-H36C-2200-7</p> <p>HBC-22-H2 Welds not in accordance with M-190-H36C-2201-7</p> <p>HBC-22-H1 moved 1'-7 5/8" West</p>		** Yes	X	

POOR ORIGINAL

IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

BY Wally DATE 10/13/79
 CHECKED Wally DATE 10/13/79

SYSTEM COMPONENT COOLING WATER

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES		OK AS IS OR DMG/ CALC CHGS REQ	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY		
		NO	YES				UNAFFECTED	AFFECTED	IF AFFECTED REFER TO REMARK NO.
61A	40 42		X			** Yes	X		
61B	40 42		X			* Yes	X		
61C	40 41		X			*** Yes	X		
61G	42 43		X			*** Yes	X		

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 CHECKED Cmf DATE 8/13/79

SYSTEM COMPONENT COOLING WATER

SYSTEM COMPONENT COOLING WATER				OK AS IS OR DMG/ CALC CHGS REQD		CORRECT TO ORIGINAL DESIGN		ANALYSIS REQUIRED		SYSTEM OPERABILITY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
STRESS CALCULATION NO.	WALKOUT PACKAGE NO.	DISCREPANCIES		NO	YES	IF YES, DESCRIPTION OF DISCREPANCIES				UNAFFECTED	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/structural 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 <div>Evaluation</div>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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STRESS CALCULATION NO.	MATERIAL PACKAGE NO.	DISCREPANCIES		OK AS IS OR DMG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY		IF AFFECTED REFER TO REMARK NO.
		NO	YES				UNAFFECTED	AFFECTED	
20D	43		X			Evaluation	X	No	X
55A	39		X			HBC-2-H1 Configuration not in accordance with M-190-H36A-200-9 Evaluation		** Yes	X
55B	39		X			HBC-2-H3 Weld's not in accordance with M-190-H36A-202-7 Support 36HBC-2-H4 moved 1'-0" east extra clamp added (not included in the analysis) Evaluation		** Yes	X
55C	39		X			Evaluation	X	No	X
55D	39		X			HBC-27-H4 Welds not in accordance with M-190-H36A-2703-7 Valve P6-5 Welded directly to elbow Evaluation	X	* Yes	X
61D	39 40 42		X			Anchor A-095 moved 2'-8 1/2" east HBC-52-H3 moved 3'-1" south Valve B41-4 is relocated beyond the problem Evaluation		*** Yes	X
61J	41		X			Anchor A-398, Welds/Structural Members not in accordance with C-674 1-H14 moved 8" down 1-H17 moved 11 1/2" South 1-H18 moved 9 1/2" South Evaluation		** Yes	X
61F	42		X			HBC-2-H9 Structural Members not in accordance with M-190-H36D-208-6 HBC-2-H110 Structural Member not in accordance with M-190-H36D-209-8 Anchor A-106 configuration not in accordance with C-854 Extra Hanger UH-1 located next to Anchor A-116 Weight of Valves H39-1,2,3,4 and F3-1, 2 of 3 used in the analysis differs from vendor supplied weight Evaluation		*** Yes	X

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STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES		OK AS IS OR DNG/ CALC CHGS REQ	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY		IF AFFECTED REFER TO REMARK NO.
		NO	YES				UNAFFECTED	AFFECTED	
61K	41		X				** Yes	X	
Anchor A-399 Welds/Structural Members not in accordance with C-672									
HBC-1-H7 Configuration/Structural Member not in accordance with M-190-H36C-106-5									
HBC-1-H20 Configuration/Structural Member not in accordance with M-190-H36C-119-4									
HBC-1-H21 Configuration/Structural Member/Weld not in accordance with M-190-H36C-120-3									
1-H23 moved 1'-2 1/4" South									
1-H21 moved 8 1/2" North-West									
Evaluation									
61L	41		X				** Yes	X	
Anchor A-400 Welds/Structural Member not in accordance with C-675									
HBC-1-H25 Structural Members not in accordance with M-190-H36C-124-3									
HBC-1-H26 Structural Members/Welds not in accordance with M-190-H36C-125A-7									
1-H25 moved 9" down									
1-H26 moved 11 5/16" North-East									
Evaluation									
61T	41		X				*** Yes	X	
HBC-28-H11 Welds not in accordance with M-190-H36C-2810-4									
Weight of the valve B81-2 used in the analysis differs from vendor supplied weight									
Evaluation									
61V	41		X				*** Yes	X	
Valve B81-1 Orientation not in accordance with M-236C									
Weight of the valve B81-1 used in the analysis differs from vendor supplied weight									
Evaluation									
61W	41		X				* Yes	X	
HBC-80-H1 Configuration not in accordance with M-190-H36C-8000-6									
Evaluation									
83L	44		X				** Yes	X	
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									

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STRESS CALCULATION NO.	NO. MILKININ PACKAGE NO.	DISCREPANCIES		OK AS IS OR CALC CHGS	CORRECT TO ORIGINAL D	ANALYSIS REQUIRED	UNAFECTED	AFFECTED	IF AFFECTED REFER TO REMARK NO.	
		NO	YES							IF YES, DESCRIPTION OF DISCREPANCIES
83A	44		X	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-26-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 "A" located next to anchors A87, A88, A89, A90 26-H14 moved 3'-11 1/4" northwest The correct location of the Seismic joint between areas 6 & 7 need to be considered in analysis Evaluation				*** Yes	X	
83B	44		X	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 Evaluation				*** Yes	X	
83C	44		X	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 Evaluation				*** Yes	X	
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SYSTEM COMPONENT COOLING WATER

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES		OK AS IS OR CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	UNDEFFECTED	AFFECTED	IF AFFECTED REFER TO REMARK NO.
		NO	YES						
IF YES, DESCRIPTION OF DISCREPANCIES									
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 correct location of the Seismic Joint between areas 6 & 7 need be considered in the analysis					
			X	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					
			X	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-2754-3 Anchor A377 Structural Member not in accordance with C-866					
			X	Evaluation			* Yes	X	
83G	44			A-374 moved 13" East					
			X	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					
			X	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					
			X	Evaluation			** Yes	X	

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STRESS CALCULATION NO.	MARKING PACKAGE NO.	DISCREPANCIES		OK AS IS OR DMG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY		
		NO	YES				UNDETECTED	AFFECTED	IF AFFECTED REFER TO REMARK NO.
51	51		X						
<p>Extra Hanger "HA" located between HBD-96-H4 & HBD-96-H5</p> <p>Hanger HBD-96-H4 sketch calls for weld all-around, but welded at 2 of 4 sides.</p> <p>HBC-34-H41 moved 14 11/16" southwest along pipe</p> <p>Anchor A137 inaccessible</p> <p>Weight of the valves E-14 and E3-15 used in the seismic analysis differs from vendor supplied weight.</p>						*** Yes	X		
51B	51		X						
<p>Weight of the valves PSV-3962 and</p> <p>PSV-3963 in the seismic analysis differs from vendor supplied weight.</p>						*** Yes	X		
110A	55		X						
<p>HBC-37-H27 Welds not in accordance with M-190-H41L-3726-2</p> <p>HBC-37-H34 Structural Member not in accordance with M-190-H41L-3733-4</p> <p>HBC-37-H35 Welds not in accordance with M-190-H41L-3734-2</p> <p>HBC-37-H36 Structural Member not in accordance with M-190-H41L-3735-4</p> <p>HBC-37-H37 Welds not in accordance with M-190-H41L-3736-6</p> <p>HBC-37-H40 Structural Members not in accordance with M-190-H41L-3739-4</p> <p>HBC-37-H42 Welds not in accordance with M-190-H41L-3741-3</p> <p>HBC-37-H43 Welds not in accordance with M-190-H41L-3742-4</p> <p>37-H46 moved 1'-4" N.</p> <p>37-H36 moved 1'-7" S.</p> <p>37-H45 moved 1'-4 3/4" SE.</p> <p>41 HBC-37 H39 Inaccessible</p>						** Yes	X		
63B	53		X						
<p>41-HBC-42-H2 moved 18" East</p> <p>Weights of following valves used in analysis differs from vendor supplied weight:</p> <p>P4-9, P4-10, P4-11, P6-7, P6-8, P6-9, P6-10, TV1429, TV1434</p>						*** Yes	X		
63C	53		X						
<p>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</p>						*** Yes	X		

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STRESS CALCULATION		DISCREPANCIES		OR AS IS OR ENG/ CALF CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY		IF AFFECTED REFER TO REMARK NO.
NO.	PACKAGE NO.	NO	YES				UNAFFECTED	AFFECTED	
84A	54		X	Support HBC-45-27 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	
84B	54		X	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	
84C	54		X	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 12 1/2" South HBC-45-B41 moved 16" South Evaluation			** Yes	X	
63A	53 54		X	HBC-37-H16 Welds not in accordance with M-190-B41D-3715-4 HBC-45-H2 moved 14" North Evaluation			** Yes	X	

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SYSTEM <u>SERVICE WATER</u>				OK AS IS OR DMC/ CALC CHGS REQ	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY		IF AFFECTED REFER TO REMARK NO.
STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES					UNAFFECTED	AFFECTED	
		NO	YES						
60	50 53 58			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			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 DH Support added not analyzed on old problem Evaluation				** Yes	X
84E	54			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 (8 1/2" east) HBC-44-H21 moved around corner 2'-6" north (8 1/2" 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			HBC-44-H36 Welds not in accordance with M-190-H41H-4435-3 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
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STRESS CALCULATION NO.		VALUATION PACKAGE NO.		DISCREPANCIES		OK AS IS OR (BUC/ CALC CHGS REQ)	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY		IF AFFECTED REFER TO REMARK NO.
NO	YES	IF YES, DESCRIPTION OF DISCREPANCIES		UNAFECTED	AFFECTED						
52A	58	X		Evaluation	X	No	X				
52C	58		X	HBC-34-H23 Configuration not in accordance with M-190-B50T-3422-5 Evaluation		*	Yes	X			
37A	52		X	42-HBC-43-H2 moved 22" down 41-HBC-43-H3 moved 9'-6" South Anchor A-138 moved 31" East Evaluation		**	Yes	X			
37B	52		X	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 Evaluation		**	Yes	X			
37C	52		X	Penetration P-4 not shown on M-241C 41-HBC-43-H12 moved 21" North 41-HBC-43-H8 moved 14" down Evaluation		**	Yes	X			
37E	52 54		X	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-B41C-3516-8 Anchor A-142 moved 22" East 41-HBC-35-H24 moved 20" South Evaluation		**	Yes	X			

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STRESS CALCULATION NO.	MANUFACTURER PACKAGE NO.	DISCREPANCIES		OR AS IS OR ENG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY	
		NO	YES				UNDEFFECTED	IF AFFECTED REFER TO REMARK NO.
37F	7 52		X			*** Yes	X	
								Weights of the following valves used in analysis differ from vendor supplied weights: F11-1, 2, 3, 4, 5 and 6 Evaluation
37D	7 52 54		X			** Yes	X	
								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 Evaluation
51A	51	X				No	X	
								No discrepancies Evaluation
52B	51 52		X			*** Yes	X	
								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 Evaluation
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STRESS CALCULATION NO.	MALIKIN PACKAGE NO.	DISCREPANCIES		OK AS IS OR DMG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY		
		NO	YES				UNAFFECTED	AFFECTED	IF AFFECTED REFER TO REMARK NO.
96A	57		X						
<p>NSC-145-H36 Welds not in accord with M-190-B46B-14535-4</p> <p>NSC-145-H37 Clearances not in accordance with M-190-B46B-14536-4 Additional loads attached</p> <p>NSC-145-H39 Structural Members not in accordance with M-190-B46B-14538-3</p> <p>NSC-145-H46 Welds not in accordance with M-190-B46B-14545-4</p>									
Evaluation							* Yes	X	
96C	57		X						
<p>NSC-155-H10 Welds not in accordance with M-190-B46B-15509-1</p> <p>NSC-155-H11 Welds not in accordance with M-190-B46B-15510-2</p> <p>NSC-145-H4 moved 1'-6 7/8" north</p> <p>NSC-155-H12 moved up 1'-2 1/4"</p>									
Evaluation							** Yes	X	
96D	57		X						
<p>NSC-145-H16 Welds not in accordance with M-190-B46B-14515-6</p> <p>NSC-145-H19 Welds not in accordance with M-190-B46B-14518-3</p> <p>NSC-145-H21 Welds not in accordance with M-190-B46B-14520-1</p>									
Evaluation							* Yes	X	
96E	57		X						
<p>NSC-155-H4 Additional loads attached</p> <p>Extra Hanger located between NSC-155-H3 and NSC-155-H4</p> <p>Anchor A355 has moved to horizontal pipe from vertical position (2 1/4" NSC-155). 8" from elbow toward north</p> <p>NSC-155-H3 moved 3'-5" east</p> <p>Anchor A-356 moved 2'-3" west</p>									
Evaluation							** Yes	X	
96F	57		X						
<p>NSC-155-H9 Configuration not in accordance with M-190-B46B-14508-5</p> <p>NSC-155-H16 Welds not in accordance with M-190-B46B-15515-2</p> <p>Anchor A356 moved 2'-3" west</p> <p>Pipe routing changed-elbows added-used to be 28'-5" @ El. 561'-3" now 23'-6" @ El. 561'-3" & 5'-0" @ 559'-3"</p> <p>NSC-155-H18 moved 1'-6" west</p> <p>NSC-155-H9 previously only hanger support-now rigid x support added</p> <p>Anchor A357 moved up 3'-7 1/4"</p>									
Evaluation							** Yes	X	

POOR ORIGINAL

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

BY Kayhl DATE 10/13/79
 CHECKED Chf DATE 10/18/79

SYSTEM SHIP PUMP DISCHARGE

STRESS CALCULATION NO.	QUAL. PKG. IN PACKAGE NO.	DISCREPANCIES		IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS OR DMG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY		
		NO	YES					UNAFFECTED	AFFECTED	IF AFFECTED, REFER TO REMARK NO.
968	37 57		X	Hanger HSC-145-B49 Welds not in accordance with M-190-B46B-14548-3 Extra Hanger H "Z" located between HSC-32-H16 and HSC-32-H17 Extra Hanger H "Y" located next to HSC-32-H14 Hanger HSC-145-B49 moved 1'-2 5/8" South 35-HSC-32-H15 moved 14" East Evaluation				Yes	X	

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

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 BY W. J. H. H. DATE 10/14/79
 CHECKED Cal DATE 10/13/79

SYSTEM EMERGENCY DIESEL GENERATOR

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES		IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS OR ENG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY		IF AFFECTED REFER TO REMARK NO.
		NO	YES					UNAFFECTED	AFFECTED	
122A	39		X	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 Evaluation			ee Yes	X		
123A	60	X		No Hanger Problem Evaluation	X		No	X		
123B	60		X	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 7 3/4" Northeast HBD-359-H14 moved 1'-1 3/4" West HBD-359-H8 moved up 7 7/8" Evaluation			ee Yes	X		

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

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 BY Waght DATE 9/20/79
 CHECKED Chf DATE 9/20/79

SYSTEM AUXILIARY STEAM

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES		OK AS IS OR DO CALC CRGS REQ	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	OPERABILITY		IF APPLICABLE REFER TO REMARK NO.
		NO	YES				UNEXPECTED	AFFECTED	
68C	21		X	GSD-12-B4 Welds not in accordance with M-190-W20B-1203-3 Restraint 20 GSD-12 B6 moved 2'-11" down Restraint 20 GSD-12 B3 moved 1'-11" north Evaluation			** Yes	X	
77A	22		X	Extra Hanger located next to HED-37-H77 HED-44-H2 Configuration not in accordance with Grinnell SK 12-4401 HED-44-B4 Welds not in accordance with M-190-W20D-4403-2 HED-44-H11 Structural Member not in accordance with M-190-W20D-4410-3 Anchor A-238 moved 2'-0" east Evaluation			** Yes	X	
77B	22		X	HED-44-H8 Configuration not in accordance with M-190-W20D-4407-3 HED-44-H9 additional load attached Evaluation			* Yes	X	
77C	22	X		Evaluation	X		No	X	
77E	22		X	HED-86-H3 Additional Load attached Support 20 HED86-B4 moved 1'-4" east Evaluation			** Yes	X	
77F	22		X	The weight of the valve HV-2073 used in the analysis differs from the vendor supplied weight Evaluation			*** Yes	X	
77G	22	X		Evaluation	X		No	X	

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 BY haghl DATE 9/30/74
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SYSTEM AUXILIARY STEAM

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES		OK AS IS OR DMG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY		
		YES	IF YES, DESCRIPTION OF DISCREPANCIES				UNAFFECTED	AFFECTED	IF AFFECTED REFER TO REMARK NO.
77H	22	X	Restraint 20- HBD-86-H17 moved 1'-7 5/8" down Evaluation			** Yes	X		
85	24	X	HBD-87-H20 Structural Member not in accordance with M-190-H20L-8719-3 HBD-87-H21 welds not in accordance 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 Evaluation			** Yes	X		
94B	23 24	X	Anchor A278 Configuration/dimensions not in accordance with C-889 Anchor A279 Dimensions not in accordance with C-889 HBD-46-74 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'-11 1/4" North 87-H29 moved 1'-3" down 87-H11 moved 2'-4" East Evaluation			** Yes	X		

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SYSTEM CIRCULATING WATER

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES		OK AS IS OR CALC CHGS NEEDED	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	UNAFFECTED	AFFECTED	IF AFFECTED REFER TO REMARK NO.
		NO	YES						
59	15		X	Valve WV-2929 orientation not in accordance with M-241A Valve WV-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-H4 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 Evaluation			Yes	X	
59B	15		X	Valve PV-2944 orientation not shown on M-212B Valve PV-2945 orientation not shown on M-212B HBD-100-H6 welds not in accordance with M-190-H12B-10005-5 Evaluation			Yes	X	

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SYSTEM FIRE PROTECTION SYSTEM

STRESS CALCULATION NO.		WALKDOWN PACKAGE NO.		SYSTEM FIRE PROTECTION SYSTEM		G. AS IS OR DMG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY		
DISCREPANCIES				NO	YES				IF YES, DESCRIPTION OF DISCREPANCIES	UNAFFECTED	AFFECTED
79	19										

1265 206

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES		OK AS IS OR CALC CHGS RE CORRECT TO ORIGINAL DES	ANALYSIS REQUIRED	UNAFFECTED	AFFECTED	IF AFFECTED REFER TO REMARK NO.
		NO	YES					
79B	19		<p>Envelope of areas 7 and 8 should be used in seismic analysis</p> <p>Evaluation</p>		*** Yes	X		
79C	19		<p>KBE-2-H109 welds not in accordance with M-190-H16E-A206-8</p> <p>KBE-2-H285 welds and configuration not in accordance with M-190-H16E-B284-3</p> <p>KBE-2-H286 welds not in accordance with M-190-H16E-B285-4</p> <p>KBE-2-H289 welds not in accordance with Grinnell 18-B288</p> <p>KBE-2-H290 welds/dimensions not in accordance with M-190-H16E-B289-4</p> <p>Extra hanger UN-1 located next to KBE-2-H109</p> <p>Extra hanger UN-2 located next to MCS-29</p> <p>16-KBE-2-H289 moved 12 1/4" North</p> <p>Extra Hanger UN-3 (SA) @ Elbow</p> <p>Anchor between 79 & 79C is built @ blackwall not accessible</p> <p>Weight of the Valve FF-4 used in analysis differs from vendor supplied weight</p> <p>Evaluation</p>		*** Yes	X		
87A	18		<p>Anchor A-414 Structural Member not in accordance with C-670</p> <p>Anchor A-415 Structural Member not in accordance with C-670</p> <p>KBE-2-H218 Configuration not in accordance with M-190-H16D-B217-3</p> <p>KBE-2-H223 Welds not in accordance with M-190-H16D-B222-3</p> <p>Extra Support H "A" located next to KBE-2-H217</p> <p>Anchor A-413 moved 31 3/4" East</p> <p>Weight of the valve FF-245 used in the analysis differs from vendor supplied weight</p> <p>Support KBE-2-H214 spans areas 7 & 6</p> <p>Evaluation</p>		*** Yes	X		

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SYSTEM FIRE PROTECTION SYSTEM

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SYSTEM		FIRE PROTECTION SYSTEM		OK AS IS OR DMC/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY		
STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES					P	NOTED	IF AFFECTED REFER TO REMARK NO.
		NO	YES						
IF YES, DESCRIPTION OF DISCREPANCIES									
87B	18		X	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 VP-3 used in the Seismic analysis differs from vendor supplied weight. <div>Evaluation</div>			Yes	X	
87C	18		X	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 "Y" located next to KBE-2-H180 Extra Support H "C" located next to Anchor A-318 Extra Support H "H" located next to Anchor A-315 Valve VP-6 "A" Orientation not in accordance with M-216D 16"KBE-2-H176 moved North 15 1/2" 16"KBE-2-H321 Hanger dwg. is missing Weight of the valve VP-4 used in analysis differs from vendor supplied weight. <div>Evaluation</div>			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					

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SYSTEM FIRE PROTECTION SYSTEM

SYSTEM FIRE PROTECTION SYSTEM				OK AS IS OR DNG/ CALC CRGS REQD		CORRECT TO ORIGINAL DESIGN		ANALYSIS REQUIRED		SYSTEM OPERABILITY	
STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.			DISCREPANCIES	OK AS IS OR DNG/ CALC CRGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	UNAFECTED		IF AFFECTED REFER TO REMARK NO.	
		NO	YES					AFFECTED			
Cont. 87D	18		X	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-H166 moved 13' East 16-KBE-2-H213 moved 15" East 16-KBE-2-H207 moved 25 3/4" North 16-KBE-2-H196 moved 16 3/4" South Evaluation			Yes	X			
82C	17		X	No Discrepancies 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 VP-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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9/15/79

SYSTEM FIRE PROTECTION SYSTEM

SYSTEM <u>FIRE PROTECTION SYSTEM</u>				OK AS IS OR DMG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY		IF AFFECTED REFER TO REMARK NO.
STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES					UNAFFECTED	AFFECTED	
		NO	YES						
118A	20		X	Valve FP-1 Orientation not in accordance with M-210P, 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 <					

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SYSTEM MAKEUP WATER TREATMENT

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.			DISCREPANCIES	OK AS IS OR DMG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY		IF AFFECTED REFER TO REMARK NO.
		NO	YES					UNAFFECTED	AFFECTED	
102A	12		X	<p>HCB-23-H1 Welds/Configuration not in accordance with M-190-H10E-2300-3</p> <p>HCB-23-H2 Configuration not in accordance with M-190-H10E-2301-5</p> <p>HCB-23-H4 Structural Members not in accordance with M-190-H10E-2303-3</p> <p>HCB-23-H6 Configuration not in accordance with M-190-H10E-2305-4</p> <p>Envelope of Areas 8 and 9 should be used in analysis</p> <p>Evaluation</p>			Yes		X	
102B	13		X	<p>Anchor A185 Configuration not in agreement with C-883</p> <p>HCD-4-H73 Welds not in accordance with M-190-H10F-472-3</p> <p>HCD-4-H53 Structural Member not in accordance with M-190-H10F-452-4</p> <p>Extra Support No. 2 located next to HCD-4-H53</p> <p>Extra Support No. 3 located between HCD-4-H50 and HCD-4-H51</p> <p>Extra Support No. 4 located next to HCD-4-H47</p> <p>Extra Support No. 5 located next to HCD-4-H55</p> <p>Extra Support No. 6 located next to HCD-4-H57</p> <p>Extra Support No. 7 located next to HCD-4-H60</p> <p>Extra Support No. 8 located next to HCD-4-H61</p> <p>Extra Support No. 9 located next to HCD-4-H63</p> <p>Extra Support No. 10 located between HCD-4-H69 and HCD-4-H70</p> <p>Extra Support No. 11 located next to HCD-4-H78</p> <p>Extra Support No. 12 located between HCD-4-H80 and HCD-4-H81</p> <p>Extra Support No. 13 located next to HCD-4-H62</p> <p>Extra Support No. 14 located between HCD-4-H73 and HCD-4-H75</p> <p>Anchor A-168 moved 3'-1" to East</p> <p>10F HCD-4-H-76 moved 1'-1" to West</p> <p>10B HCD-4-H-62 moved 13" to North</p> <p>72E (E-3) moved 1'-3" to South</p> <p>10B HCD-4-H-59 moved 1'-6" to East</p> <p>HCD-4-H61 Spans Seismic Joint</p> <p>Evaluation</p>			Yes		X	
102C	12		X	<p>Anchor A389 Configuration not in agreement with C-897</p> <p>Anchor A183 Configuration not in agreement with C877</p> <p>HCD-4-H39 Structural Members not in agreement with M-190-H10E-438-3</p> <p>HCD-4-H41 Welds/Configuration not in agreement with M-190-H10E-440-4</p> <p>Valve A143-1 Orientation not in agreement with M-210E</p> <p>Envelope of Areas 8 and 9 should be used in the analysis</p> <p>Evaluation</p>			Yes		X	

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BY W. J. H. J. DATE 9/30/79
 CHECKED Conf DATE 9/30/79

SYSTEM MAKEUP WATER TREATMENT

STRESS CALCULATION NO.	MAKEUP PACKAGE NO.			DISCREPANCIES	OK AS IS OR ENG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY	
		NO	YES					UNAFFECTED	IF AFFECTED REFER TO REMARK NO.
102D	12		X	MCC-50-H1 Welds not in acco. 'ance 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 analysed for displacement			*** 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 Number 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 Numbers 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					

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SYSTEM MAKEUP WATER TREATMENT

STRESS CALCULATION NO.	MAXIMUM PACKAGE NO.	DISCREPANCIES		OK AS IS OR IMC CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	OPERABILITY		IF AFFECTED REFER TO REMARK NO.
		NO	YES				UNEXPECTED	AFFECTED	
IF YES, DESCRIPTION OF DISCREPANCIES									
102E Cont.	10			Extra Hanger UH-7 located between MCC-50-B43 and MCC-50-B44 Extra Hanger UH-8 located between MCC-50-B47 and Anchor A384 MCC-50-B9 moved 1'-6 5/8" West MCC-50-B10 moved 1'-8 3/8" West MCC-50-B13 moved 2'-9" South MCC-50-B18 moved 1'-7 3/4" up MCC-50-B21 moved 1'-7 7/8" East MCC-50-B30 moved 13" East MCC-50-B33 is missing MCC-50-B42 moved 12 7/8" North MCC-50-B43 moved 14 1/8" South MCC-50-B44 moved 12 1/4" North MCC-50-B45 moved 2'-2 1/4" North MCC-50-B46 moved 2'-2 1/8" West Support MCC-50-B21 Spans Seismic Joint					
			X	Evaluation		*** Yes	X		
102F	10								
		X		Evaluation	X	No	X		
102G	11			Anchor A423 Configuration/Structural Members not in accordance with C-831 Anchor A424 Structural Members not in accordance with C-837 MCC-51-B102 Welds not in accordance with M-190-B10D-A5101-2 MCC-51-B103 Welds not in accordance with M-190-B10D-A5102-2 MCC-51-B104 Welds not in accordance with M-190-B10D-A5103-3 10B MCC-51-B103 moved 1'-2 1/8" to West Anchor A424 moved 2'-3 1/4" to North-West					
			X	Evaluation		** Yes	X		
102H	11			MCC-69-B104 Welds not in accordance with M-190-B10D-A6903-2 MCC-69-B105 Welds not in accordance with M-190-B10D-A6904-3 Extra Hanger UH-1 located next to MCC-69-B101 10B-MCC-69-B102 moved 1'-1" to West 10B-MCC-69-B104 moved 1'-0 3/4" to South Anchor A-426 moved 1'-4 5/8" to North-West					
			X	Evaluation		** Yes	X		
102I	12			Anchor A427 Structural Members not in accordance with C-657 MCC-40-B103 Configuration not in accordance with M-190-B10E-A4002-1 Anchor A-428 moved 1'-6 1/4" North-West					
			X	Evaluation		** Yes	X		
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SYSTEM MAKUP WATER TREATMENT

SYSTEM MAKEUP WATER TREATMENT				OK AS IS OR DMG/ CALC CHRS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY		
STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES					UNAFFECTED	AFFECTED	IF AFFECTED REFER TO REMARK NO.
		NO	YES						
102J	13		X	Anchor A430 Structural Member not in accordance with C-837 Extra Support No. 1 located between RCC-53-H101 and Anchor A429 10B-RCC-53-H104 moved 1'-4" down Anchor A430 moved 1'-11" North-West Evaluation		Yes	X		
102K	13		X	10B RCC-53-H-111 moved 1'-11" to West 10B RCC-53-H-112 moved 1'-1" to East 10B RCC-53-H-116 moved 1'-0 1/8" to East 10B RCC-53-H-126 moved 2'-2 9/16" North-East RCC-53-H115 Spans Seismic Joint Envelope of Areas 7, 8, & 9 need be considered Evaluation		Yes	X		
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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

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SYSTEM SCREEN WALL AND CHLORINATION

STRESS CALCULATION NO.	UNKNOWN PACKAGE NO.	DISCREPANCIES		IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS OR DMC/ CALC CHGS REQD	CONFORM TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY		IF AFFECTED REFER TO REMARK NO.
		NO	YES					UNAFFECTED	AFFECTED	
103A	14			Anchor A148 moved 1'-1 1/4" East						
				Evaluation	X		No	X		

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SYSTEM DRAINAGE SYSTEM

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

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IF BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

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SYSTEM STATION AND INSTRUMENT AIR

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES		IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS OR DMG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY		IF AFFECTED REFER TO REMARK NO.
		NO	YES					UNAFECTED	AFFECTED	
128A	16			Seismic Boundary location not in accordance with M-215 Support 15 BCD-30 H1 not included in the analysis Support 15 BCD-30 H2 not included in the analysis Evaluation			++			4
			X				Yes	X		

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

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SYSTEM VENT HEADER

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES		IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS OR DNG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY		IF AFFECTED REFER TO REMARK NO.	
		NO	YES					UNAFFECTED	AFFECTED		
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 12 1/2" South HSC-29-H22 moved 19" South Length of pipe HSC-27 (G-8) shortened to 2'-3"							
			X								
<div style="font-size: 2em; font-weight: bold; transform: rotate(-5deg);">POOR ORIGINAL</div>											

Evaluation

**

Yes

X

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IE BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

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SYSTEM DRAINAGE SYSTEM

STRESS CALCULATION NO.	VALUATION PACKAGE NO.	DISCREPANCIES		OK AS IS OR CALC CHGS REQ	CORRECT TO ORIGINAL DES	ANALYSIS REQUIRED	UNAPFFECTED	AFFECTED	IF AFFECTED REFER TO REMARK NO.
		NO	YES						
101Q	63		X	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 Evaluation		** Yes	X		2
101K	62		X	Anchor A-1 Structural Number not in accordance with M-260-34-1 Anchor A-2 Structural Number not in accordance with M-260-34-1 H35 Configuration not in accordance with M-260-35-1 Extra Hanger (E-102) located on 4"-LGE next to Anchor A-2 Extra Hanger (E-103) located on 4"-LGE below slab at El. 610'-0" Extra Hanger (E-104) located on 4"-LGE between Hanger 35 and slab at El. 595'-0" Extra Hanger (E-105) located on 4"-LGE below floor slab at El. 595'-0" Evaluation		** Yes	X		
101L	62		X	Extra Hanger (E-106) located on 4"-LGE below floor slab at El. 623'-0" Hanger 45 Extra Hanger (E-107) located on 4"-LGE between floor slab at El. 614'-0" and Hanger 35 Extra Hanger (E-108) located on 4"-LGE between floor slab at El. 603'-0" and Hanger 35 Extra Hanger (E-100) located on 4"-LGE 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 Evaluation		** Yes	X		
101P	62		X	Two Supports are missing at D.P. 20 & 40 Evaluation		** Yes	X		

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IX BULLETIN 79-14 DESCRIPTION OF INSPECTION RESULTS

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SYSTEM DRAINAGE SYSTEM

SYSTEM: DRAINAGE SYSTEM				OK AS IS OR ENG/ CALC CHGS REQD	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY			
STRESS CALCULATION NO.	LOADING PACKAGE NO.	DISCREPANCIES					UNAFFECTED	AFFECTED	IF AFFECTED REFER TO REMARK NO.	
		NO	YES							
IF YES, DESCRIPTION OF DISCREPANCIES										
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 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 Evaluation				Yes	X	
1010	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 Evaluation				Yes	X	

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SYSTEM DRAINAGE SYSTEM

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES			OK AS IS OR CALC CHGS REQD	CORRECT TO ORIGINAL DES	ANALYSIS REQUIRED	UNAFFECTED	AFFECTED	IF AFFECTED REFER TO REMARK NO.
		NO	YES	IF YES, DESCRIPTION OF DISCREPANCIES						
101B	65		X	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 UN-1 located next to Hanger No. 30 Extra Hanger UN-2 located next to Hanger No. 30 Extra Hanger UN-3 located next to Hanger No. 30 Extra Hanger UN-4 located next to Hanger No. 45 Extra Hanger UN-5 located next to Hanger No. 45 Extra Hanger UN-6 located next to Hanger No. 70 Extra Hanger UN-7 located next to Hanger No. 70 Extra Hanger UN-8 located next to Hanger No. 70 Extra Hanger UN-9 located next to Hanger No. 70 Extra Hanger UN-10 located next to Anchor A-1 Support at 30 moved 22" West Support at 155 moved 14 1/2" North Evaluation			Yes	X		
101C	65		X	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 UN-11 located next to Hanger No. 70 Extra Hanger UN-12 located next to Hanger No. 65 Extra Hanger UN-13 located next to Hanger No. 95 Extra Hanger UN-14 located next to Hanger No. 95 Extra Hanger UN-15 located next to Hanger No. 95 Extra Hanger UN-16 located next to Hanger No. 40 Extra Hanger UN-17 located next to Hanger No. 40 Extra Hanger UN-18 located next to Hanger No. 25 Extra Hanger UN-19 located next to Hanger No. 25 Extra Hanger UN-48 located next to Hanger No. 25 Extra Hanger UN073 located next to Hanger No. 95 Evaluation				Yes	X	
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SYSTEM DRAINAGE SYSTEM

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES		OK AS IS OR CALC CHGS REQ	CORRECT TO ORIGINAL DES	ANALYSIS REQUIRED	UNAFFECTED	AFFECTED	IF AFFECTED REFER TO REMARK NO.	
		NO	YES							
IF YES, DESCRIPTION / DISCREPANCIES										
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-260-92-1 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 UN-20 located next to Hanger No. 25 Extra Hanger UN-21 located next to Hanger No. 25 Extra Hanger UN-22 located next to Hanger No. 45 Extra Hanger UN-23 located next to Hanger No. 90 Extra Hanger UN-24 located next to Hanger No. 90 Extra Hanger UN-25 located next to Hanger No. 110 Extra Hanger UN-26 located next to Anchor A-4 Extra Hanger UN-27 located next to Hanger No. 110 Extra Hanger UN-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						

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SYSTEM DRAINAGE SYSTEM

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES		OK AS IS OR CALC CHGS	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	UNAFFECTED	AFFECTED	IF AFFECTED REFER TO REMARK NO.
		NO	YES						
1017 Cont'd.	65			<p>Hanger No. 375 weld not in accordance with M-260-110-1</p> <p>Hanger No. 380 configuration not in accordance with M-260-69-1</p> <p>Hanger No. 385 welds/configuration not in accordance with M-260-111-1</p> <p>Hanger No. 405 welds not in accordance with M-260-69-1</p> <p>Hanger No. 415 welds not in accordance with M-260-69-1</p> <p>Hanger No. 425 welds not in accordance with M-260-69-1</p> <p>Hanger No. 435 welds not in accordance with M-260-69-1</p> <p>Hanger No. 450 welds not in accordance with M-260-70-1</p> <p>Hanger No. 485 welds not in accordance with M-260-70-1</p> <p>Extra Hanger UN-57 located next to Anchor A-2</p> <p>Extra Hanger UN-58 located next to Anchor A-2</p> <p>Extra Hanger UN-59 located next to Hanger No. 100</p> <p>Extra Hanger UN-60 located next to Hanger No. 100</p> <p>Extra Hanger UN-61 located next to Hanger No. 115</p> <p>Extra Hanger UN-62 located next to Hanger No. 115</p> <p>Extra Hanger UN-63 located next to Hanger No. 115</p> <p>Extra Hanger UN-64 located next to Hanger No. 250</p> <p>Extra Hanger UN-65 located next to Hanger No. 385</p> <p>Extra Hanger UN-66 located next to Hanger No. 155</p> <p>Extra Hanger UN-67 located next to Hanger No. 170</p> <p>Extra Hanger UN-68 located next to Hanger No. 185</p> <p>Extra Hanger UN-69 located next to Hanger No. 205</p> <p>Extra Hanger UN-70 located next to Hanger No. 220</p> <p>Extra Hanger UN-71 located next to Hanger No. 225</p> <p>Support at 225 moved 3'-9" North</p> <p>Support at 220 moved 2'-9" North</p> <p>Support at 205 moved 2'-7" North</p> <p>Support at 185 moved 2'-0" West</p> <p>Support at 155 moved 1'-7" West</p>					
			X	Evaluation					

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SYSTEM DRAINAGE SYSTEM

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES		OK AS IS OR CALC CHGS	CORRECT TO ORIGINAL D	ANALYSIS REQUIRED	UNAFECTED	AFFECTED	IF AFFECTED REFER TO REMARK NO.
		NO	YES						
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 structural 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 UH-42 located next to Hanger No. 250					

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SYSTEM DRAINAGE SYSTEM

STRESS CALCULATION NO.	WALKDOWN PACKAGE NO.	DISCREPANCIES		IF YES, DESCRIPTION OF DISCREPANCIES	OK AS IS OR DMC/ CALC CHGS REQ	CORRECT TO ORIGINAL DESIGN	ANALYSIS REQUIRED	SYSTEM OPERABILITY		IF AFFECTED REFER TO REMARK NO.	
		NO	YES					UNAFFECTED	AFFECTED		
1011 Cont'd	65			<p>Extra Hanger UH-43 located next to Hanger No. 90</p> <p>Extra Hanger UH-44 located next to Hanger No. 55</p> <p>Extra Hanger UH-45 located next to Hanger No. 55</p> <p>Extra Hanger UH-46 located next to Hanger No. 40</p> <p>Extra Hanger UH-47 located next to Hanger No. 25</p> <p>Extra Hanger UH-49 located next to Hanger No. 375</p> <p>Extra Hanger UH-50 located next to Hanger No. 385</p> <p>Extra Hanger UH-51 located next to Hanger No. 385</p> <p>Extra Hanger UH-52 located next to Hanger No. 175</p> <p>Extra Hanger UH-53 located next to Hanger No. 175</p> <p>Extra Hanger UH-54 located next to Hanger No. 175</p> <p>Extra Hanger UH-55 located next to Hanger No. 190</p> <p>Extra Hanger UH-56 located next to Anchor No. A-1</p> <p>Extra Hanger UH-72 located next to Hanger No. 130</p> <p>Extra Hanger UH-74 located next to Hanger No. 110</p> <p>Extra Hanger UH-75 located next to Hanger No. 90</p> <p>Extra Hanger UH-76 located next to Hanger No. 145</p> <p>Support at 25 moved 1'-5" East</p> <p>Support at 40 moved 3'-10" North</p> <p>Support at 175 moved 3'-0" down</p> <p>Support at 190 moved 1'-4" down</p>							
			X	Evaluation			Yes		X		

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