

79-14 PHASE II
DISCREPANCY EVALUATION FORM
WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
Page 1 of 2

Discrepancy No.: 1T01-0600200-06-04/03C

Support No.: N/A

Description of Discrepancy: Deviation No. 20C, Contact in the +Z_C direction
from insulated pipe to steel on horizontal I beam and elevation 747'-3",
located at node pt. 30.

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: The maximum movement at node pt 30 in the +Z_C dir is
0.01" and the horiz I-beam is considered rigid, therefore, the total
movement is 0.01" > 0" (direct contact). Clearance must be provided
Continued 2 of 2

Resolution: Clearance of 1/16" must be provided to prevent contact.

Richard A. Lavin
Preparer
10/31/83
Date

Chris R. Kest
Checker
10-31-83
Date

[Signature]
Supervisor
10-31-83
Date

Robert S. Shil
Concurrer
10/19/83
Date

Philip W. [Signature]
Reviewer
10/19/83
Date

[Signature]
Supervisor
10/19/83
Date

Discrepancy No. 1T01-0600200-06-04/03C

Basis for judgement: (cont.) to prevent contact. This discrepancy is considered to
be nonsignificant on the following basis: The total MVT of 0.01" would cause an
insignificant stress increase on either the pipe or str. stl. beam, the insulation
would tend to be indented resulting in this negligible effect.

79-14 PHASE II
DISCREPANCY EVALUATION FORM
WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
Page 1 of 1

Discrepancy No.: 1T01-0600200-06-04/01P

Support No.: P007-15

Description of Discrepancy: Deviation No. 41P. Global x direction from node pt. 43 to node pt. 44 is 3'-3 3/4" instead of 2'- 0" as analyzed.

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: This discrepancy is considered to be nonsignificant on the following basis: The stresses are low in the area of this discrepancy and a 1' - 3 3/4" support relocation would have a negligible effect on the stresses for the pipe support or the pipe.

Resolution: The as-constructed pipe support location is acceptable.

Isometric drawing No. 0600200-06-04 will be revised to resolve this discrepancy.

Robt. Garcia
Preparer

10/31/83
Date

Chris R. Kest
Checker

10-31-83
Date

D. J. [Signature]
Supervisor

10-31-83
Date

Robert D. Shih
Concurrer

10/19/83
Date

Philip W. B. [Signature]
Reviewer

10/19/83
Date

J. [Signature]
Supervisor

10/19/83
Date

79-14 PHASE II
DISCREPANCY EVALUATION FORM
WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
Page 1 of 2

Discrepancy No.: 1T01-0600200-06-04/02P

Support No.: N/A

Description of Discrepancy: Deviation No. 45P: Elevation of FT-1-28A and FT-1-28B is constructed at 774'-0" instead of 775'-6" at node PT.6.

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: The maximum stress ratio in the area of the discrepancy is 50% of the allowable. A minor change in mass location would not significantly affect the system stresses. This discrepancy is considered

Continued 2 of 2

Resolution: The as-constructed flow indicator locations are acceptable.

Isometric drawing 0600200-06-04 will be revised to resolve this discrepancy.

John G. ...
Preparer

10/31/83
Date

Chris R. ...
Checker

10-31-83
Date

...
Supervisor

10-31-83
Date

Robert L. ...
Concurrer

Date

Philip W. B. ...
Reviewer

10/18/83
Date

J. ...
Supervisor

10/19/83
Date

Discrepancy No. 1T01-0600200-06-04/02P

Basis for judgement: (cont) to be nonsignificant on the following basis: These
flow indicators have a negligible mass when compared to the total system and a
movement of 1'-6" in either direction from its analyzed location would not affect the
system stresses significantly.

79-14 PHASE II
DISCREPANCY EVALUATION FORM
WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
Page 1 of 1

Discrepancy No.: 1T01-0600200-06-04/03P

Support No.: N/A

Description of Discrepancy: Deviation No 46P - No change in outside diameter of insulation along mainstream header between nodes 32 and 44. Isometric specifies changes in pipe diameter with same insulation O.D. at nodes 35 and 41.

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: Per telecon with Danny Sample, Watts Bar Field: there is a 2" gap in the transition from 35" to 33" pipe. The O.D. of the insulation on the horizontal run is constant. Based on this fact, there is a negligible change which will have an insignificant effect on the analysis.

Resolution: From an analysis point of view the as-constructed configuration is acceptable, no discrepancy exists. Insure installation of insulation is correct.

D.H. Davis
Preparer

10/31/83
Date

Chris R. Keith
Checker

10-31-83
Date

J. J. [Signature]
Supervisor

10-31-83
Date

Robert A. Shih
Concurrer

10/19/83
Date

Philip W. [Signature]
Reviewer

10/19/83
Date

J. J. [Signature]
Supervisor

10/19/83
Date

79-14 PHASE II
DISCREPANCY EVALUATION FORM
WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
Page 1 of 1

Discrepancy No.: 1T01-0600200-06-04/04P

Support No.: P007-16

Description of Discrepancy: Deviation No 48P:Global x dimensions from Node 33 (Y - Z stop) to node 32 (west end M.S. header (horiz)) is 3'-1" to insulated end of pipe instead of 2'-0" as specified on the analysis isometric.

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: This discrepancy is considered to be nonsignificant on the following basis: The stresses are low in the area of this discrepancy and a 1'-1" support relocation would have a negligible effect on the stresses for the pipe support or the pipe.

Resolution: The as-constructed pipe support location is acceptable. Isometric drawing No. 0600200-06-04 will be revised to resolve this discrepancy.

Mike Garcia
Preparer

10/31/83
Date

Chris P. Kerk
Checker

10.31.83
Date

P. M. R. E.
Supervisor

10-31-83
Date

Robert L. Ilich
Concurrer

10/19/83
Date

Philip H. B.
Reviewer

10/19/83
Date

J. J. Nash
Supervisor

10/19/83
Date

79-14 PHASE II
DISCREPANCY EVALUATION FORM
WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
Page 1 of 1

Discrepancy No.: 1T01-0600200-06-04/01H

Support No.: 1-01A-422 - REV 906

Description of Discrepancy: Deviation 9H:Spring Cold Load Setting

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: The stress induced by load is not significant, spring is still effective, existing spring setting will stay in the spring range.

Resolution: Drawing 1-01A-422 will be revised to show correct cold load per reanalysis under ECN 3481 and the as-constructed setting.

Philip W. [Signature] 10/14/83
Preparer Date

Robert L. [Signature] 10/18/83
Checker Date

[Signature] 10/19/83
Supervisor Date

Chris R. [Signature] 11.3.83
Concurree Date

[Signature] _____
Reviewer Date

[Signature] 11-5-83
Supervisor Date

79-14 PHASE II
DISCREPANCY EVALUATION FORM
WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
Page 1 of 1

Discrepancy No.: 1T01-0600200-06-04/02H

Support No.: 1-01A-422 - R906

Description of Discrepancy: Deviation 10H:Rod Length

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: The length of the rod has no effect on its tension
load condition.

Resolution: Use as is, drawing 1-01A-422 will be revised to show installed
rod length and change qty. of hex nuts supplied with item 5 to W/(2), noted
as 'one nut each side'.

Philip H. O'Brien
Preparer 10/15/83
Date

Robert L. Hill
Checker 10/18/83
Date

J. J. Nash
Supervisor 10/19/83
Date

Charles R. Vest
Concurer 11-3-83
Date

John G. ...
Reviewer 11/3/83
Date

R. D. ...
Supervisor 11-5-83
Date

79-14 PHASE II
DISCREPANCY EVALUATION FORM
WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
Page 1 of 1

Discrepancy No.: 1T01-0600200-06-04/03H

Support No.: 1-01A-422 - R906

Description of Discrepancy: Deviation 12H:Part Replacement

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: The beam attachment would require significantly more loading (for failure) than would be induced. This part is not load rated for this condition.

Resolution: Replace existing part with B-P part 276 as designed. No drawings to be revised.

Philip W. B. [Signature] 10/15/83
Preparer Date

Robert L. [Signature] 10/18/83
Checker Date

[Signature] 10/19/83
Supervisor Date

Chris R. [Signature] 11.3.83
Concurrer Date

[Signature] 11/3/83
Reviewer Date

[Signature] 11-5-83
Supervisor Date

79-14 PHASE II
DISCREPANCY EVALUATION FORM
WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
Page 1 of 1

Discrepancy No.: 1T01-0600200-06-04/04H

Support No.: 1-01A-423 - R902

Description of Discrepancy: Deviation 15H:Plate Increase

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: Plate size has no effect on pressure boundary

Resolution: Use as is, drawing 1-01A-423 - R902 will be revised to reflect
the installed condition. Item 5 will be revised to 8" wide in Detail C and
B/M.section C-C will be redrawn to show item 5 larger than end attachment.

Philip W. B... 10/15/83
Preparer Date

Robert L. Hill 10/18/83
Checker Date

J. M. ... 10/19/83
Supervisor Date

Chris R. Kesk 10.31.83
Concurree Date

Philip W. B... 11/3/83
Reviewer Date

J. M. ... 11/11/83
Supervisor Date

79-14 PHASE II
DISCREPANCY EVALUATION FORM
WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
Page 1 of 1

Discrepancy No.: 1T01-0600200-06-04/05H

Support No.: 1-01A-423 - R902

Description of Discrepancy: Deviation 19H: Pipe Clamp Alteration

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: Clamp is rated for design load, no effect on pressure boundary.

Resolution: Use as is, drawing 1-01A-432 - R902 will be revised to reflect installed condition.

Philip W. [Signature] 10/15/83
Preparer Date

Robert L. [Signature] 10/18/83
Checker Date

[Signature] 10/19/83
Supervisor Date

Chris R. [Signature] 11-3-83
Concurree Date

[Signature] 11/3/83
Reviewer Date

[Signature] 11/3/83
Supervisor Date

79-14 PHASE II
DISCREPANCY EVALUATION FORM
WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
Page 1 of 1

Discrepancy No.: 1T01-0600200-06-04/06H

Support No.: 1-01A-425 - R904

Description of Discrepancy: Deviation 23H: Cold Spring Setting

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: Induced loads are not significant. Spring is still effective, existing spring setting will stay in the spring range.

Resolution: Drawing 1-01A-425 - R904 will be revised to correct cold spring load to meet latest analysis requirements per ECN 3481. Spring will require re-setting to revised cold load.

Philip H. B... 10/15/83
Preparer Date

Robert L. Hill 10/10/83
Checker Date

J. M. ... 10/19/83
Supervisor Date

Chris R. ... 11-3-83
Conturrer Date

... 11/3/83
Reviewer Date

... 11/11/83
Supervisor Date

79-14 PHASE II
DISCREPANCY EVALUATION FORM
WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
Page 1 of 1

Discrepancy No.: 1T01-0600200-06-04/07H

Support No.: 1-01A-425 - R904

Description of Discrepancy: Deviation 24H:Beam Size Incorrect

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: Induced loads are not significant enough to overstress existing W14 x 87 beam.

Resolution: Use as is, drawing will be revised to show correct beam size.

This support is affected by a revised piping analysis and the support dwg. will be revised per ECN 3481 to show the correct loads and the W14 x 87 will be re-checked. Drawings 48W1700-04 & 06 to be revised per ECN 3481 to show correct elevation of W14 X 87.

R1

Phillip H. B... 10/15/83
Preparer Date

Robert L. Skil 10/18/83
Checker Date

J. J. Nash 10/19/83
Supervisor Date

Chris R. Kest 11-3-83
Concurree Date

Alto... 11/3/83
Reviewer Date

James O. Ferguson 1-23-84
Inspector Date

L. J. ... 11/15/83
Supervisor Date

R1

79-14 PHASE II
DISCREPANCY EVALUATION FORM
WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
Page 1 of 1

Discrepancy No.: 1T01-0600200-06-04/08H

Support No.: 1-01A-425 - REV 904

Description of Discrepancy: Deviation 25H: Beam Notched

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: These beams are not part of the structure that support the pipe. These beams were added to help support only the grating platform.

Resolution: Use as is, drawing 1-01A-425 will be revised to show a gap of 1 inch.

Philip W. B. [Signature] 10/15/83
Preparer Date

Robert L. [Signature] 10/18/83
Checker Date

[Signature] 10/19/83
Supervisor Date

Chris R. [Signature] 11-3-83
Concurren Date

[Signature] 11/3/83
Reviewer Date

[Signature] 11/5/83
Supervisor Date

79-14 PHASE II
DISCREPANCY EVALUATION FORM
WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
Page 1 of 1

Discrepancy No.: 1T01-0600200-06-04/09H

Support No.: 1-01A-435 - R2

Description of Discrepancy: Deviation 27H:Stiffner Location

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: Stiffners are adequate for loading, no effect on pipe.

Resolution: Use as is, drawing 1-01A-435 will be revised to show installed condition of 8" C-C dimension for stiffners.

Philip W. B. 10/15/83
Preparer Date

Robert S. Hill 10/18/83
Checker Date

J. Marshall 10/19/83
Supervisor Date

Chris R. Kirk 11.3.83
Concurree Date

D. L. ... 11/3/83
Reviewer Date

J. S. ... 11/1/83
Supervisor Date

79-14 PHASE II
DISCREPANCY EVALUATION FORM
WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
Page 1 of 1

Discrepancy No.: 1T01-0600200-06-04/10H

Support No.: 1-01A-434 - R903

Description of Discrepancy: Deviation 36H:Anchor Bolt Installation

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: Bolt is adequate for loads. No effect on pressure boundary.

Resolution: Use as is, drawing 1-01A-434 - R903 will be revised to reflect installed conditions of 3/16" min. extension of threads.

Philip W. B. 10/19/83
Preparer Date

Robert L. Hill 10/19/83
Checker Date

J. Mark 10/19/83
Supervisor Date

Chris R. K... 11.3.83
Concurree Date

Robert 11/3/83
Reviewer Date

D. J. ... 11/5/83
Supervisor Date

79-14 PHASE II
DISCREPANCY EVALUATION FORM
WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
Page 1 of 1

Discrepancy No.: 1T01-0600200-06-04/11H

Support No.: 1-01A-434 - R903

Description of Discrepancy: Deviation 38H:Strut Assembly Alteration

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: Snubber assembly adequate for load. No effect on pressure boundary.

Resolution: Use as is, drawing will be revised to show (V-groove) field weld on the strut assembly. Field verification that a PSA-100 snubber is installed is sufficient.

Philip H. OB 10/15/83
Preparer Date

Robert L. Hill 10/19/83
Checker Date

J. M. [Signature] 10/19/83
Supervisor Date

Chris R. [Signature] 11-3-83
Concurrer Date

[Signature] 11/3/83
Reviewer Date

[Signature] 11/5/83
Supervisor Date

79-14 PHASE II
DISCREPANCY EVALUATION FORM
WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
Page 1 of 1

Discrepancy No.: 1T01-0600200-06-04/12H

Support No.: 1-01A-428 - R901

Description of Discrepancy: Deviation 40H:Pipe Clamp Dimension

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: Dimensional differences does not significantly alter

the load capacity of the pipe clamp. Applied lo is considerably lower than
load capacity.

Resolution: Use as is, drawing will be revised to show an 'E' dimension on
clamp of 2'-5½'.

Philip W. B. 10/15/83
Preparer Date

Robert L. Mill 10/19/83
Checker Date

J. M. Ash 10/19/83
Supervisor Date

James R. [Signature] 11-3-83
Concurrer Date

Philip [Signature] 11/2/83
Reviewer Date

[Signature] 11/2/83
Supervisor Date

79-14 PHASE II
DISCREPANCY EVALUATION FORM
WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
Page 1 of 1

Discrepancy No.: 1T01-0600200-06-04/13H

Support No.: 1-01A-432 Revision 904

Description of Discrepancy: Deviation 52H, lugs are mislocated, pipe to sleeve contact area is less than design.

Significant: Yes Nonsignificant: No

Definite potential for loss of pressure boundary: No

Basis for judgment: This discrepancy is significant because the stress induced will exceed the pipe reserve stress. However, localized yielding will occur and stresses will not go to ultimate. Pipe deformation at the lugs will not exceed 0.15" per TPIPE computer printout #ABVNDZF on microfilm roll 50001.

Resolution: Redesign of the lug bearing surface with the new lower loads from ECN 3481.

SK Sherfy
Preparer 11-3-83
Date

J. Hanon
Checker 11-3-83
Date

William J. Kagan
Supervisor 11/3/83
Date

Phillip W. B.
Concurren 11-4-83
Date

Robert L. Hieb
Reviewer 11-4-83
Date

DD Maul
Supervisor 11/4/83
Date

79-14 PHASE II
DISCREPANCY EVALUATION FORM
WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
Page 1 of 1

Discrepancy No.: 1T01-0600200-06-04/14H

Support No.: 1-01A-432 REV904

Descriptor of Discrepancy: Deviation 53H : Support Location

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: This is the same problem as identified on discrepancy
1T01-0600200-06-04/13H. But this identified dimension is a reference dimension
only.

Resolution: Redesign of the lug bearing surface with the new lower loads
from ECN 3481 will be accomplished under the resolution for discrepancy
No. 1T01-0600200-06-04/13H.

Philip W. B. 10/15/83
Preparer Date

Robert L. Hill 10-19-83
Checker Date

J. J. Noah 10/19/83
Supervisor Date

Ali 11/5/83
Concurren Date

SK Shirley 11-5-83
Reviewer Date

J. J. Noah 11-5-83
Supervisor Date

79-14 PHASE II
DEVIATION EVALUATION FORM
WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
Page 1 of 2

Package No.: 1T67-47W450-217 Inspection Drawing: ⁽¹⁾ See Package No.

(2) Deviation No.	(3) Phase I Discrepancy No.	(4) Acceptance Criteria	(5) Phase II Discrepancy No.	(6) Comments
1P	N/A	See reverse side of this attachment	N/A	N/A
2P	N/A	See reverse side of this attachment	N/A	N/A
3P	N/A	GCS G-43 R6 Sect. 2.8.1.3	N/A	N/A
4P	TVA inspection and Tel	edyne reinspection	reveals no deviation	exists.
5P	N/A	GCS G-43 R6 Sect. 2.8.1.3	N/A	N/A
6P	1R67-47W450-217/02P	N/A	N/A	N/A

NOTES:

- (1) This is an analysis isometric drawing number.
- (2) All deviations are to be listed consecutively.
- (3) If this deviation was previously assigned a Phase I discrepancy number, identify the number and do not address columns (4) and (5).
- (4) If this deviation is acceptable per existing acceptance criteria, identify the acceptance criteria and page number and do not address column (5).
- (5) If this deviation was not assigned a Phase I discrepancy number or is not acceptable per existing acceptance criteria, then this deviation must be assigned a Phase II discrepancy number per EN DES-SEP 82-25, Attachment 4, page 4.
- (6) Any related comments of interest should be recorded.

Prepared by Robert C. McKay
CONST/EN DES

August 27, 1983
Date

Reviewed by S.K. Shelby
EN DES

August 27, 1983
Date

Additional comments on reverse side.

033131.25

DEVIATION

ACCEPTANCE CRITERIA

- 1P Node points 95 and 96 identify hanger locations. The as-constructed location of the supports at NP 95 and 96 is acceptable per GCS - G-43 R6, Sect. 2.8.1.3. The overall length of the pipe segment is acceptable per drawing requirements.
- 2P Node points VV1-90 is within allowable dimensional tolerances per GCS - G-43 R6, Sect. 2.13.3.

79-14 PHASE II
 DEVIATION EVALUATION FORM
 WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
 Page 1 of 4

Package No.: 1T67-47W450-217 R/6 Inspection Drawing: ⁽¹⁾ See Package No.

(2) Deviation No.	(3) Phase I Discrepancy No.	(4) Acceptance Criteria	(5) Phase II Discrepancy No.	(6) Comments
1T67-47W450- 217 R/6 -1H	1R67-47W450-217-02Y	SEP 82-25 Att. 2 Pg 1 of 4 Sect. 2.0-B	N/A	Pending FCR H-9177
-2H	N/A	47A050-1M R/5 Note 6	N/A	
-3H	N/A	47A050-1M R/5 Note 6	N/A	
-4H	N/A	47A050-1C R/6 Note 7	N/A	
-5H	N/A	N3C-912 Sect. 4.1.1	N/A	
-6H	N/A	N3C-912 Sect. 5.1	N/A	

NOTES:

- (1) This is an analysis isometric drawing number.
- (2) All deviations are to be listed consecutively.
- (3) If this deviation was previously assigned a Phase I discrepancy number, identify the number and do not address columns (4) and (5).
- (4) If this deviation is acceptable per existing acceptance criteria, identify the acceptance criteria and page number and do not address column (5).
- (5) If this deviation was not assigned a Phase I discrepancy number or is not acceptable per existing acceptance criteria, then this deviation must be assigned a Phase II discrepancy number per EN DES-SEP 82-25, Attachment 4, page 4.
- (6) Any related comments of interest should be recorded.

Prepared by Robert C. McKay
 CONST/EN DES

AUGUST 30, 1983
 Date

Reviewed by J. D. Waldrop
 EN DES

AUGUST 30, 1983
 Date

79-14 PHASE II
 DEVIATION EVALUATION FORM
 WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
 Page 2 of 4

Package No.: 1T67-47W450-217 R/6 Inspection Drawing: ⁽¹⁾ See Package No.

(2) Deviation No.	(3) Phase I Discrepancy No.	(4) Acceptance Criteria	(5) Phase II Discrepancy No.	(6) Comments
1T47W450- 217 R/6-7H	N/A	47A050-1C R/6 Notes 7 & 101	N/A	
-8H	N/A	G-43 Sect. 2.8.1.1	N/A	
-9H	N/A	47A050-1M R/5 Note 16	N/A	
-10H	1R67-47W450-217 O1X	N/A	N/A	Not documented
-11H	1R67-47W450-217-C1X	N/A	N/A	Not documented
-12H	N/A	47A050-1C R/6 Note 7	N/A	
-13H	N/A	N3C-912 Sect. 4.1.3 G-43 Sect. 2.9.3.b	N/A	
-14H	N/A	47A050-1C R/6 Note 92	N/A	
-15H	N/A	N/A	N/A	*(Sheet 4 of 4)
-16H	N/A	47A050-1M R/5 Note 16	N/A	
-17H	N/A	N3C-912 Sect. 5.1	N/A	
-18H	N/A	47A050-1Q R/3 Note 163	N/A	
-19H	None	None	1T67-47W450-217 /O1H	
-20H	N/A	47A050-1F R/8 Note 91	N/A	
-21H	N/A	N3C-912 Sect. 5.1	N/A	
-22H	N/A	N/A	N/A	*(Sheet 4 of 4)
-23H	N/A	N/A	N/A	*(Sheet 4 of 4)
-24H	N/A	N3C-912 Sect. 5.1	N/A	

Prepared by Robert C. McKay
 CONST/EN DES

August 30, 1983
 Date

Reviewed by J. D. Waldrop
 EN DES

August 30, 1983
 Date

Note: See first deviation evaluation form for notes.

033131.25

79-14 PHASE II
 DEVIATION EVALUATION FORM
 WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
 Page 3 of 4

Package No.: 1T67-47W450-217 R/6 Inspection Drawing: ⁽¹⁾ See Package No.

(2) Deviation No.	(3) Phase I Discrepancy No.	(4) Acceptance Criteria	(5) Phase II Discrepancy No.	(6) Comments
1T67-47W450- 217 R/6 -25H	N/A	N/A	N/A	*(Sheet 4 of 4)
-26H	N/A	N/A	N/A	*(Sheet 4 of 4)
-27H	N/A	N3C-912 Sect. 5.1	N/A	
-28H	N/A	47A050-1HR/3 Note 5	N/A	
-29H	N/A	N/A	N/A	*(Sheet 4 of 4)
-30H	N/A	N/A	N/A	Not documented
-31H	N/A	N/A	N/A	Not documented
-32H	N/A	N/A	N/A	Not documented
-33H	None	None	1T67-47W450-217/02H	
-34H	N/A	N/A	N/A	*(Sheet 4 of 4)
-35H	N/A	N/A	N/A	*(Sheet 4 of 4)
-36H	N/A	N/A	N/A	*(Sheet 4 of 4)
-37H	None	None	1T67-47W450-217/03H	
-38H	1T67-47W450-217/12H	47A050-1HR/3 Note 9	N/A	
-39H	N/A	N/A	N/A	*(Sheet 4 of 4)
-40H	N/A	N3C-912 Sect. 5.1	N/A	
-41H	N/A	47A050-9 R/2 & 9A R/2	N/A	
-42H	None	None	1T67-47W450-217/04H	
-43H	N/A	47A050-1HR/5 Note 61	N/A	

Prepared by Robert C. McKay
 CONST/EN DES

August 30, 1983
 Date

viewed by J. D. Waldrop
 EN DES

August 30, 1983
 Date

Note: See first deviation evaluation form for notes.

033131.25

79-14 PHASE II
 DEVIATION EVALUATION FORM
 WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
 Page 4 of 4

Package No.: 1T67-47W450-217 R/6 Inspection Drawing: ⁽¹⁾ See Package No.

(2) Deviation No.	(3) Phase I Discrepancy No.	(4) Acceptance Criteria	(5) Phase II Discrepancy No.	(6) Comments
1T67-47W450- 217 R/6 -44H	N/A	47A050-1M R/5 Note 16	N/A	
-45H	N/A	N/A	N/A	*(Sheet 4 of 4)
-46H	N/A	N/A	N/A	*(Sheet 4 of 4)
-47H	1R67-47W450-217-15H	N/A	N/A	
-48H	N/A	N/A	N/A	*(Sheet 4 of 4)
-49H	N/A	47A050-12	N/A	
-50H	N/A	47A050-1T Note 3	N/A	
-51H	1R67-47W450-217-14H	N/A	N/A	
-52H	N/A	N3C-912 Sect. 5.2	N/A	
*Note: Upon TVA and Teledyne reinspection, no deviation exists.				

Prepared by Robert C. McKay
 CONST/EN DES

August 30, 1983
 Date

Reviewed by J. D. Waldrop
 EN DES

August 30, 1983
 Date

Note: See first deviation evaluation form for notes.

039131.23

79-14 PHASE II
DISCREPANCY EVALUATION FORM
WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
Page 1 of 2

Discrepancy No.: 1T67-47W450-217/01V

Support No.: N/A

Description of Discrepancy: Deviation No. 8V

Valve operator orientation (installed) does not agree with analysis
isometric, installed at 45° skew in the YZ plane.

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: This discrepancy is considered to be nonsignificant on
the following basis: The orientation of valve 1-LSV-67-533B will have an
insignificant affect on the analysis, due to weight of 13 lbs. and a relatively
(continued on next page)

Resolution: The as-constructed valve operator is acceptable. Isometric
drawing 47W450-217 will be revised to resolve this discrepancy. Piping
drawing 47W450-6 will also be revised.

D. H. Dan
Preparer

11/3/83
Date

Chas R. Kesh
Checker

11-3-83
Date

P. J. Miller
Supervisor

11-3-83
Date

T. J. Brown Jr.
Concuser

11/4/83
Date

J. L. Lundberg
Reviewer

11/4/83
Date

R. S. Pratt
Supervisor

11/4/83
Date

EN DES-SEP 82-25

Revision 0
Page 2 of 2

Discrepancy No. 1T67-47W450-217/01V

Basis for judgement: (cont)

small center of gravity dimension of 2-9/16". Any rotation of the valve would cause

an insignificant increase in the stress levels of the analysis problem.

The analyzed problem utilized a weight of 12.7 lbs and a center of gravity of 2-11/16",

therefore since this is conservative the as-constructed position of the operator is

acceptable.

79-14 PHASE II
DISCREPANCY EVALUATION FORM
WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
Page 1 of 2

Discrepancy No.: 1T67-47W450-217/02V

Support No.: N/A

Description of Discrepancy: Deviation No: 9V

Valve operator orientation (installed) does not agree with analysis
isometric. Operator is installed in -Z direction

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: This discrepancy is considered to be nonsignificant
on the following basis: The horizontal accel. are greater than the vertical
accel. so that the analyzed valve operator is more conservative. Also a
(Continued)

Resolution: The as-constructed valve operator orientation is acceptable.
Isometric drawing 47W450-217 will be revised to resolve this discrepancy.
Piping drawing 47W450-6 will also be revised.

[Signature]
Preparer

11/3/83
Date

[Signature]
Checker

11-3-83
Date

[Signature]
Supervisor

11-3-83
Date

[Signature]
Concurreter

11/4/83
Date

[Signature]
Reviewer

11/4/83
Date

[Signature]
Supervisor

11/4/83
Date

VEN DES-SEP 82-25

Revision 0
Page 2 of 2

Discrepancy No. 1T67-47W450-217/02V

Basis for judgement: (cont) greater mass (126 vs. 118) was used.

79-14 PHASE II
DISCREPANCY EVALUATION FORM
WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
Page 1 of 1

Discrepancy No.: 1T67-47W450-217/01H

Support No.: 67-1ERCW-R167

Description of Discrepancy: Deviation No: 19H: Bolts in pipe clamp are loose on one side.

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: The pipe clamp is used to transfer load from the lug to the sway struts. A small gap between bolts and clamp wouldn't effect the overall design.

Resolution: Construction to tighten loose bolts on clamp.

T. I. Blum
Preparer

11/4/83
Date

J. L. Lund
Checker

11/4/83
Date

R. D. Pratt
Supervisor

11/4/83
Date

Ali
Concurrer

11/7/83
Date

D. M. [Signature]
Reviewer

11/7/83
Date

[Signature]
Supervisor

11/8/83
Date

79-14 PHASE II
DISCREPANCY EVALUATION FORM
WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
Page 1 of 2

Discrepancy No.: 1T67-47W450-217/02H

Support No.: 67-1ERCW-R174

Description of Discrepancy: Deviation No: 33H Pipe support gaps are not
in accordance with design drawing. 3/32" gap on bottom of pipe

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: Load table 47B450-391 R3 calls for US(Y) at joint 15 to
carry -5,900.00 lbs. In order for this support to restrain the pipe as
designed, the 3/32" gap should be eliminated. One of the adjacent supports is not
(continued on next page)

Resolution: Provide gaps as shown on pipe support design drawing 67-1ERCW-R174.

[Signature]
Preparer

11/3/83
Date

[Signature]
Checker

11-3-83
Date

[Signature]
Supervisor

11-3-83
Date

[Signature]
Concurrent

11/4/83
Date

[Signature]
Reviewer

11/4/83
Date

[Signature]
Supervisor

11/4/83
Date

Discrepancy No. 1T67-47W450-217/02H

Basis for judgement: (cont)

in contact as per G-43 section 2.10.2.2.D. This discrepancy is considered to be

nonsignificant on the following basis: As the pipe begins to deflect under load

all supports would become effective.

79-14 PHASE II
DISCREPANCY EVALUATION FORM
WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
Page 1 of 1

Discrepancy No.: 1T67-47W450-217/03H

Support No.: 67-1ERCW-R176

Description of Discrepancy: Deviation No: 37H

Pipe support gaps are not in accordance with design drawing. Gap between
6WF and pipe is 3/16".

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: The design of the lateral support calls for a 1/8" total
gap. In order for this rigid support to restrain the pipe as designed, 1/32"
of the existing lateral gap should be eliminated. (continued on next page)

Resolution: Provide gaps as shown on pipe support design drawing # 67-1ERCW-
R176 or G-43

[Signature] 11/2/83
Preparer Date

[Signature] 11-3-83
Checker Date

[Signature] 11-3-83
Supervisor Date

[Signature] 11/4/83
Concurred Date

[Signature] 11/4/83
Reviewer Date

[Signature] 11/4/83
Supervisor Date

Discrepancy No. IT67-47W450-217/03H

Basis for judgement: (cont.)

This discrepancy is considered to be nonsignificant on the following basis: The

difference in the gap would not have a significant affect on the stress levels of the
pipng.

79-14 PHASE II
DISCREPANCY EVALUATION FORM
WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
Page 1 of 2

Discrepancy No.: 1T67-47W450-217/04H

Support No.: 67-1ERCW-R192

Description of Discrepancy: Deviation: No 42H

Small dimension differences on pipe clamp

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: After rechecking clamp dimension, we see the original dimensions are correct. See memo - MEDS #WBN-83-1025-003. The only remaining

discrepancy is the dimension between the clamp halves. This dimension which

(continued on next page)

Resolution: Field to construct as design, to obtain 1-5/8" clearance between clamp halves as stated on drawing.

T. C. Blaine Jr.
Prepared 11/4/83
Date

J. L. Lund
Checker 11/4/83
Date

R. S. Pratt
Supervisor 11/5/83
Date

Edo 7a
Concurred 11/7/83
Date

Ali
Reviewer 11/7/83
Date

P. J. [unclear]
Supervisor 11/7/83
Date

Discrepancy No. 1T67-47W450-217/04H

Basis for judgement: (cont)

should have been 1-5/8" is 1-3/4". This will have no adverse effect upon the support
function.

79-14 PHASE II
 DEVIATION EVALUATION FORM
 WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
 Page 1 of 1

Package No.: 1T70-47W464-242 Inspection Drawing: ⁽¹⁾ See Package No.

(2) Devia- tion No.	(3) Phase I Discrepancy No.	(4) Acceptance Criteria	(5) Phase II Discrepancy No.	(6) Comments
P1	N/A	N/A	1T70-47W464-242/1P	EN DES to check for dimensions used on analysis
P2	N/A	GCS G-43 Sect. 2.13.3	N/A	Small vent line ± 3" tolerance
P3	N/A	GCS G-43 Sect. 2.8.1.3	N/A	N/A

NOTES:

- (1) This is an analysis isometric drawing number.
- (2) All deviations are to be listed consecutively.
- (3) If this deviation was previously assigned a Phase I discrepancy number, identify the number and do not address columns (4) and (5).
- (4) If this deviation is acceptable per existing acceptance criteria, identify the acceptance criteria and page number and do not address column (5).
- (5) If this deviation was not assigned a Phase I discrepancy number or is not acceptable per existing acceptance criteria, then this deviation must be assigned a Phase II discrepancy number per EN DES-SEP 82-25, Attachment 4, page 4.
- (6) Any related comments of interest should be recorded.

Prepared by Robert C. McKay / [Signature]
 CONST/EN DES

August 31, 1983
 Date

Reviewed by [Signature]
 EN DES

August 31, 1983
 Date

79-14 PHASE II
 DEVIATION EVALUATION FORM
 WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
 Page 1 of 4

Package No.: 1T70-47W464-242 R/2 Inspection Drawing: ⁽¹⁾ See Package No.

(2) Devia- tion No.	(3) Phase I Discrepancy No.	(4) Acceptance Criteria	(5) Phase II Discrepancy No.	(6) <u>Comments</u>
1T70-47W464- 242/01H	N/A	G-43, 2.10.2.2	N/A	
/02H	N/A	G-43, 2.10.2.2	N/A	
/03H	N/A	G-43, 2.10.2.2	N/A	
/04H	N/A	G-43, 2.10.2.2	N/A	
/05H	N/A	G-43, 2.10.2.2	N/A	
/06H	N/A	G-43, 2.10.2.2	N/A	

NOTES:

- (1) This is an analysis isometric drawing number.
- (2) All deviations are to be listed consecutively.
- (3) If this deviation was previously assigned a Phase I discrepancy number, identify the number and do not address columns (4) and (5).
- (4) If this deviation is acceptable per existing acceptance criteria, identify the acceptance criteria and page number and do not address column (5).
- (5) If this deviation was not assigned a Phase I discrepancy number or is not acceptable per existing acceptance criteria, then this deviation must be assigned a Phase II discrepancy number per EN DES-SEP 82-25, Attachment 4, page 4.
- (6) Any related comments of interest should be recorded.

Prepared by Robert C. McKay / *[Signature]* August 31, 1983
 CONST/EN DES Date

Reviewed by *[Signature]* August 31, 1983
 EN DES Date

79-14 PHASE II
 DEVIATION EVALUATION FORM
 WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
 Page 2 of 4

Package No.: 1T70-47W464-242 R/2 Inspection Drawing: ⁽¹⁾ See Package No.

(2) Deviation No.	(3) Phase I Discrepancy No.	(4) Acceptance Criteria	(5) Phase II Discrepancy No.	(6) Comments
/07H	N/A	G-43, 2.10.2.2	N/A	
/08H	None	None	1T70-47W464-242/01H	
/09H	N/A	G-43, 2.9.1	N/A	
/10H	N/A	G-43, 2.9.1	N/A	
/11H	N/A	G-43, 2.10.2.2	N/A	
/12H	N/A	G-43, 2.10.2.2	N/A	
/13H	N/A	47A050-1C Note 7	N/A	
/14H	N/A	G-43, 2.10.2.2	N/A	
/15H	N/A	G-43, 2.10.2.2	N/A	
/16H	N/A	47A050-1C Note 7	N/A	
/17H	N/A	47A050-1C Note 7	N/A	
/18H	N/A	G-43, 2.10.2.2	N/A	
/19H	N/A	47A050-1C Note 7	N/A	
/20H	N/A	G-43, 2.10.2.2	N/A	
/21H	N/A	47A050-1C Note 7	N/A	
/22H	N/A	47A050-1C Note 7	N/A	
/23H	1R70-47W464-242/13H	N/A	N/A	
/24H	N/A	G-43, 2.10.2.2	N/A	
/25H	N/A	G-43, 2.10.2.2	N/A	

Prepared by Robert C. McKay
 CONST/EN DES

August 31, 1983
 Date

Reviewed by J. D. Waldrop
 EN DES

August 31, 1983
 Date

Note: See first deviation evaluation form for notes.

033131.25

79-14 PHASE II
 DEVIATION EVALUATION FORM
 WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
 Page 3 of 4

Package No.: 1T70-47W464-242 R/2 Inspection Drawing: ⁽¹⁾ See Package No.

(2) Deviation No.	(3) Phase I Discrepancy No.	(4) Acceptance Criteria	(5) Phase II Discrepancy No.	(6) Comments
/26H	N/A	G-43, 2.10.2.2	N/A	
/27H	N/A	G-43, 2.10.2.2.d	N/A	Adjacent supports verified to be 0 clearance
/28H	N/A	G-43, 2.10.2.2	N/A	
/29H	N/A	G-43, 2.8.1.3	N/A	
/30H	N/A	G-43, 2.8.1.3	N/A	
31H	N/A	G-43, 2.10.2.2	N/A	
/32H	N/A	SRN G-43-6 Sect. 2.8.1.2	N/A	
/33H	N/A	G-43, 2.10.2.2	N/A	
/34H	N/A	47A050-1B Note 67	N/A	
/35H	N/A	47A050-1E Note 47	N/A	
/36H	N/A	47A050-1M Note 16.25	N/A	
/37H	N/A	47A050-1C Note 7	N/A	
/38H	N/A	G-43, 2.8.1.1	N/A	Hanger open at time of inspection.
/39H	N/A	N/A	N/A	*
/40H	N/A	G-43, 2.10.2.2	N/A	
/41H	N/A	G-43, 2.9.1	N/A	
/42H	1R70-47W464-242/18H	N/A	N/A	
/43H	N/A	G-43, 2.10.2.2	N/A	

*Per TVA and Teledyne reinspection, no deviation exists.

Prepared by Robert C. McKay
 CONST/EN DES

August 31, 1983
 Date

Reviewed by J. D. Waldrop
 EN DES

August 31, 1983
 Date

Note: See first deviation evaluation form for notes.

033131.25

79-14 PHASE II
 DEVIATION EVALUATION FORM
 WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
 Page 4 of 4

Package No.: 1T70-47W464-242 Inspection Drawing: ⁽¹⁾ See Package No.

(2) Deviation No.	(3) Phase I Discrepancy No.	(4) Acceptance Criteria	(5) Phase II Discrepancy No.	(6) Comments
/44H	N/A	G-43, 2.10.2.2.d	N/A	Adjacent supports determined to have 0" clearance at bottom of pipe.
/45H	N/A	G-43, 2.10.2.2	N/A	
/46H	1R70-47W464-242/20H	N/A	N/A	
/47H	N/A	47A050-1E Note 47	N/A	
/48H	N/A	47A050-12	N/A	
/49H	None	None	1T70-47W464-242/02H	
/50H	N/A	47A050-1M Notes 50 and 51	N/A	
/51H	N/A	G-32, 5.3.1	N/A	
/52H	N/A	47A050-1C Note 7	N/A	
/53H	N/A	G-43, 2.10.2.2	N/A	
/54H	N/A	G-43, 2.10.2.2	N/A	
/55H	N/A	47A050-1C Note 7	N/A	

Prepared by Robert C. McKay
 CONST/EN DES

August 31, 1983
 Date

Reviewed by J. D. Waldorf
 EN DES

August 31, 1983
 Date

Note: See first deviation evaluation form for notes.

033131.25

79-14 PHASE II
DISCREPANCY EVALUATION FORM
WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
Page 1 of 1

Discrepancy No.: 1T70-47W464-242/O1P

Support No.: N/A

Description of Discrepancy: Deviation No: P1

True length dimension from control point C17 to C16 is 7' - 6".

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: Field measured pipe segment is 7' 6 1/2". Computer analysis pipe segment is 7' - 6 1/2", therefore no significant affect.

Radius to node point 119 is incorrectly shown on isometric.

Resolution: Isometric drawing 47W464-242 will be revised to resolve this discrepancy.

D. H. [Signature]
Preparer

11/3/83
Date

Cos. R. [Signature]
Checker 11-3-83
Date

[Signature]
Supervisor 11-3-83
Date

E. H. [Signature]
Concurter

10/19/83
Date

[Signature]
Reviewer 11/4/83
Date

R. E. [Signature]
Supervisor 11/4/83
Date

79-14 PHASE II
DISCREPANCY EVALUATION FORM
WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
Page 1 of 1

Discrepancy No.: 1T70-47W464-242/01H

Support No.: 1-70-310

Description of Discrepancy: Deviation No: 08H

Item #5 not called out on body of drawing.

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: Item #5 is installed. Minor drawing error.

Resolution: Drawing 1-70-310 to be revised to call out item #5 in body of drawing.

T. Blum
Preparer

10/19/83
Date

J. L. Lind
Checker

11/4/83
Date

B. D. Pratt
Supervisor

11/4/83
Date

D. M. [Signature]
Concurren

11/7/83
Date

Ali
Reviewer

11/7/83
Date

S. [Signature]
Supervisor

11/21/83
Date

79-14 PHASE IJ
DISCREPANCY EVALUATION FORM
WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
Page 1 of 1

Discrepancy No.: 1T70-47W464-242/02H

Support No.: 1-70-340

Description of Discrepancy: Deviation No: 49H

6" dimension to vent hole is 10" on item #4.

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: The vent hole location has no effect upon the support design.

Resolution: Revise drawing 1-70-340 to show 10" to the vent hole on item #4.

T. S. Blauer Jr.
Preparer

10/19/83
Date

J. L. Lund
Checker

11/4/83
Date

R. S. Pratt
Supervisor

11/4/83
Date

D. H. [Signature]
Concurree

11/7/83
Date

Ali
Reviewer

11/7/83
Date

[Signature]
Supervisor

11/7/83
Date

79-14 PHASE II
 DEVIATION EVALUATION FORM
 WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
 Page 1 of 2

Package No.: 1T03-47W401-208 Inspection Drawing: ⁽¹⁾ See Package No.

(2) Devia- tion No.	(3) Phase I Discrepancy No.	(4) Acceptance Criteria	(5) Phase II Discrepancy No.	(6) Comments
1C	N/A	N3C-912 Sect. 6.3.1	N/A	PDO-7-20
2C	N/A	N3C-912 Sect. 6.3.1	N/A	PDO-7-20
3C	N/A	N3C-912 Sect. 6.3.1	N/A	PDO-7-20
4C	N/A	N3C-912 Sect. 6.3.1	N/A	PDO-7-20
5C	1R03-47W401-208/06P	N/A	N/A	PDO-7-20
6C	N/A	N3C-912 Sect. 6.3.1	N/A	PDO-7-19

NOTES:

- (1) This is an analysis isometric drawing number.
- (2) All deviations are to be listed consecutively.
- (3) If this deviation was previously assigned a Phase I discrepancy number, identify the number and do not address columns (4) and (5).
- (4) If this deviation is acceptable per existing acceptance criteria, identify the acceptance criteria and page number and do not address column (5).
- (5) If this deviation was not assigned a Phase I discrepancy number or is not acceptable per existing acceptance criteria, then this deviation must be assigned a Phase II discrepancy number per EN DES-SEP 82-25, Attachment 4, page 4.
- (6) Any related comments of interest should be recorded.

Prepared by Robert C. McKay
 CONST/EN DES

August 28, 1983
 Date

Reviewed by SK Shaffer
 EN DES

August 28, 1983
 Date

033131.25

79-14 PHASE II
 DEVIATION EVALUATION FORM
 WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
 Page 2 of 2

Package No.: 1T03-47W401-208 Inspection Drawing: ⁽¹⁾ See Package No.

(2) Deviation No.	(3) Phase I Discrepancy No.	(4) Acceptance Criteria	(5) Phase II Discrepancy No.	(6) Comments
7C	N/A	N3C-912 Sect. 6.3.1	N/A	PDO-7-19
8C	N/A	N3C-912 Sect. 6.3.1	N/A	PDO-7-19
9C	N/A	N3C-912 Sect. 6.3.1	N/A	PDO-7-19
10C	N/A	N3C-912 Sect. 6.3.1	N/A	PDO
11C	N/A	N3C-912 Sect. 6.3.1	N/A	PDO
12C	N/A	N3C-912 Sect. 6.3.1	N/A	PDO
13C	N/A	N3C-912 Sect. 6.3.1	N/A	PDO
14C	N/A	N3C-912 Sect. 6.3.1	N/A	PDO
15C	N/A	N3C-912 Sect. 6.3.1	N/A	PDO
16C	N/A	N3C-912 Sect. 6.3.1	N/A	PDO
17C	N/A	N3C-912 Sect. 6.3.1	N/A	PDO
18C	N/A	N3C-912 Sect. 6.3.1	N/A	PDO
19C	N/A	N3C-912 Sect. 6.3.1	N/A	PDO
20P	N/A	N/A	N/A	See reverse side of this attach- ment.

Prepared by Robert C. McKay
 CONST/EN DES

August 28, 1983
 Date

Reviewed by SK Shelby
 EN DES

August 28, 1983
 Date

Note: See first deviation evaluation form for notes.
 Additional comments on reverse side.

033131.25

79-14 PHASE II
 DEVIATION EVALUATION FORM
 WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
 Page 1 of 2

Package No.: 1T03-47W401-208 E/2 Inspection Drawing: ⁽¹⁾ See Package No.

(2) Deviation No.	(3) Phase I Discrepancy No.	(4) Acceptance Criteria	(5) Phase II Discrepancy No.	(6) Comments
1T03-47W401- 208-1H	N/A	N3C-912 Sect. 3.2.1 & 47A050-1M R/5 Note 25	N/A	
-2H	N/A	G-43 Sect. 2.8.1.1	N/A	
-3H	N/A	N/A	N/A	*Sheet 2 of 2
-4H	N/A	N3C-912 Sect. 5.1	N/A	
1H	N/A	G-43 Sect. 2.8.1.2	N/A	

NOTES:

- (1) This is an analysis isometric drawing number.
- (2) All deviations are to be listed consecutively.
- (3) If this deviation was previously assigned a Phase I discrepancy number, identify the number and do not address columns (4) and (5).
- (4) If this deviation is acceptable per existing acceptance criteria, identify the acceptance criteria and page number and do not address column (5).
- (5) If this deviation was not assigned a Phase I discrepancy number or is not acceptable per existing acceptance criteria, then this deviation must be assigned a Phase II discrepancy number per EN DES-SEP 82-25, Attachment 4, page 4.
- (6) Any related comments of interest should be recorded.

Prepared by Robert C. McKay
 CONST/EN DES

August 30, 1983
 Date

Reviewed by J. D. Waldrop
 EN DES

August 30, 1983
 Date

79-14 PHASE II
 DEVIATION EVALUATION FORM
 WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
 Page 2 of 2

Package No.: 1T03-47W401-208 R/2 Inspection Drawing: ⁽¹⁾ See Package No.

(2) Deviation No.	(3) Phase I Discrepancy No.	(4) Acceptance Criteria	(5) Phase II Discrepancy No.	(6) Comments
1T03-47W401- 208-6H	N/A	N/A	N/A	*
-7H	N/A	N/A	N/A	**
-8H	N/A	G-43 Sect. 2.8.1.2	N/A	
-9H	N/A	N/A	N/A	*
-10H	N/A	47A050-1M R/5 Note 25	N/A	
.1H	N/A	47A050-1H R/3 Note 5	N/A	
-12H	N/A	G-43 Sect. 2.8.1.1	N/A	
-13H	N/A	N/A	N/A	*
-14H	N/A	N/A	N/A	*
-15H	N/A	G-43 Sect. 2.9.3.b	N/A	
*Upon TVA and Teledyne reinspection no deviation exists.				
**Teledyne dimensions are from mirror insulation to edge of hanger. Drawing is dimensioning edge of sleeve to edge of hanger.				

Prepared by Robert C. McKay / *Tommy Lingle*
 CONST/EN DES

August 30, 1983
 Date

Reviewed by *J. D. Waldrop*
 EN DES

August 30, 1983
 Date

Note: See first deviation evaluation form for notes.

033131.25

79-14 PHASE II
 DEVIATION EVALUATION FORM
 WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
 Page 1 of 2

Package No.: 1T03-47W427-200 Inspection Drawing: ⁽¹⁾ See Package No.

(2) Deviation No.	(3) Phase I Discrepancy No.	(4) Acceptance Criteria	(5) Phase II Discrepancy No.	(6) Comments
1C	N/A	N3C-912 Sect. 6.3.1	N/A	N/A
2C	N/A	N3C-912 Sect. 6.3.1	N/A	N/A
3C	N/A	N3C-912 Sect. 6.3.1 L.T. DWG 47B427-467 RO	N/A	N/A
4C	N/A	N3C-912 Sect. 6.3.1 L.T. DWG 47B427-467 RO	N/A	N/A
5C	N/A	N3C-912 Sect. 6.3.1	N/A	N/A
	N/A	N3C-912 Sect. 6.3.1	N/A	N/A

NOTES:

- (1) This is an analysis isometric drawing number.
- (2) All deviations are to be listed consecutively.
- (3) If this deviation was previously assigned a Phase I discrepancy number, identify the number and do not address columns (4) and (5).
- (4) If this deviation is acceptable per existing acceptance criteria, identify the acceptance criteria and page number and do not address column (5).
- (5) If this deviation was not assigned a Phase I discrepancy number or is not acceptable per existing acceptance criteria, then this deviation must be assigned a Phase II discrepancy number per EN DES-SEP 82-25, Attachment 4, page 4.
- (6) Any related comments of interest should be recorded.

Prepared by Robert C. McKay / [Signature]
 CONST/EN DES

August 27, 1983
 Date

Reviewed by [Signature]
 EN DES

August 27, 1983
 Date

79-14 PHASE II
 DEVIATION EVALUATION FORM
 WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
 Page 1 of 3

Package No.: 1T03-47W427-200 Inspection Drawing: ⁽¹⁾ See Package No.

(2) Deviation No.	(3) Phase I Discrepancy No.	(4) Acceptance Criteria	(5) Phase II Discrepancy No.	(6) <u>Comments</u>
1T03-47W427- 200 - 1H	N/A	47A050-1M R/5 Note 6	N/A	
- 2H	N/A	N3C-912 Sect. 4.1.1	N/A	
- 3H	N/A	47A050-1B R/6 Note 2	N/A	
- 4H	N/A	N3C-912 Sect. 5.2	N/A	
- 5H	N/A	47A050-1C Note 7	N/A	
- 6H	N/A	G-32 Sect. 4.6.1	N/A	

NOTES:

- (1) This is an analysis isometric drawing number.
- (2) All deviations are to be listed consecutively.
- (3) If this deviation was previously assigned a Phase I discrepancy number, identify the number and do not address columns (4) and (5).
- (4) If this deviation is acceptable per existing acceptance criteria, identify the acceptance criteria and page number and do not address column (5).
- (5) If this deviation was not assigned a Phase I discrepancy number or is not acceptable per existing acceptance criteria, then this deviation must be assigned a Phase II discrepancy number per EN DES-SEP 82-25, Attachment 4, page 4.
- (6) Any related comments of interest should be recorded.

Prepared by Robert C. McKay
 CONST/EN DES

August 29, 1983
 Date

Reviewed by J. D. Waldrop
 EN DES

August 29, 1983
 Date

79-14 PHASE II
 DEVIATION EVALUATION FORM
 WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
 Page 2 of 3

Package No.: 1T03-47W427-200 Inspection Drawing: ⁽¹⁾ See Package No.

(2) Deviation No.	(3) Phase I Discrepancy No.	(4) Acceptance Criteria	(5) Phase II Discrepancy No.	(6) Comments
1T03-47W427- 20 - 7H	N/A	47A050-1B R/6 Note 2	N/A	
- 8H	N/A	47A050-1M R/5 Note 61 & G-43 Sect. 2.8.1.3	N/A	
- 9H	N/A	47A050-1M R/5 Note 6	N/A	
-10H	N/A	47A050-1C R/6 Note 7	N/A	
-11H	N/A	N3C-912 Sect. 5.1	N/A	
-12H	N/A	47A050-1C R/6 Note 7	N/A	
-13H	N/A	47A050-1M R/5 Note 6	N/A	
-14H	N/A	47A050-1C R/6 Note 7	N/A	
-15H	N/A	47A050-1M R/5 Note 6	N/A	
-16H	N/A	G-43 Sect. 2.9.3.b G-43 Sect. 2.8.1.1	N/A	
-17H	Per TVA reinspection and Teledyne reinspection, no deviation exists.			
-18H	N/A	N3C-912 Sect. 5.1	N/A	
-19H	N/A	47A050-1C R/6 Note 7	N/A	
-20H	N/A	47A050-1I R/1 Note 3	N/A	
-21H	N/A	G-43 Sect. 2.8.1.1	N/A	
-22H	N/A	G-43 Sect. 2.8.1.3	N/A	
-23H	N/A	G-43 Sect. 2.8.1.3	N/A	

Prepared by Robert C. McKay
 CONST/EN DES

August 29, 1983
 Date

Reviewed by J. D. Waldrop
 EN DES

August 29, 1983
 Date

Note: See first deviation evaluation form for notes.

033131.25

79-14 PHASE II
DISCREPANCY EVALUATION FORM
WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
Page 1 of 1

Discrepancy No.: 1T03-47W427-200/01P

Support No.: N/A

Description of Discrepancy: Deviation No: 9P The installed pipe length of 7' -9" exceeds the analyzed dimension of 7' - 5". (Reinspection of this line determined dimension to be 7' - 7 1/2"). Reference MEDS memo WBN 83-1025-003.

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: The stresses are low in the region and this nonsignificant change in the pipe segment length will have an insignificant affect on the analysis.

Resolution: The as-constructed pipe configuration is acceptable. Isometric drawing No. 47W427-200 will be revised to resolve this discrepancy.

[Signature]
Preparer

11/3/83
Date

[Signature]
Checker

11-3-83
Date

[Signature]
Supervisor

11-3-83
Date

[Signature]
Concurter

11-4-83
Date

[Signature]
Reviewer

11-4-83
Date

[Signature]
Supervisor

11/4/83
Date

WBN NRC-OIE BULLETIN 79-14 INSPECTIONS

TVA INFORMAL
REPORT TO PIECE
9-16-83

As a result of the NRC-OIE Bulletin 79-14, TVA developed the 79-14 phase I and phase II programs. The phase I program was a detailed inspection performed by CONST of all category 1 safety-related piping, 2-1/2 inches in diameter and greater, and all category 1 piping, regardless of size, which was dynamically analyzed by the computer. The inspection drawings were the piping analysis isometrics, the piping mechanical drawings, the support design drawings, and the valve drawings. The phase I program did not measure pipe member lengths, support locations, or support member sizes; however, most other items were inspected as shown on the inspection drawings. The phase II program was a detailed inspection performed by Teledyne Engineering Services (TES) of nine piping analysis isometrics of different systems agreed on with NRC. The phase II program inspected those items inspected under phase I and those items not inspected under phase I (e.g., the measurements of pipe member lengths, support locations, and support member sizes). The phase II program was a sampling program to audit the quality of TVA's phase I program and TVA's QA program in order to satisfy the requirements of the NRC-OIE Bulletin 79-14.

The phase I inspections began in January 1983. By August 1983, the inspections were approximately 70-percent complete. The phase II inspections began August 22, 1983, and were completed on September 1, 1983. A NRC phase II inspection exit meeting was held on August 31 at the plant site. A preliminary assessment of the discrepancies, used at the exit meeting, is attached.

During the phase I program, all construction deviations which were outside of TVA tolerances were identified as discrepancies to be tracked, evaluated, and resolved by TVA. During the phase II program, all construction deviations which were outside of TVA tolerances were identified as discrepancies, unless already identified under phase I, to be tracked, evaluated, and resolved by TVA. All discrepancies under phase II are being classified as nonsignificant, significant, or definite potential for loss of pressure boundary. So far, all phase II discrepancies have been classified as nonsignificant. No phase II discrepancies have been identified as having significant impact on the piping analysis. The majority of the phase II discrepancies has been clearance discrepancies, due to conduit, steel, instrument lines, etc., being recently installed too close to the pipe. The phase II clearance discrepancies could result in potential damage to the insulation on the piping, so some field changes will be performed to prevent the interferences from occurring. All other phase II nonclearance discrepancies require no field changes whatsoever, as of now.

Future schedule dates related to the 79-14 inspections are as follows:

<u>Item</u>	<u>Completion Date</u>
TES report of trip	9-23-83
Phase II discrepancy evaluation	10-15-83
Final report to close 79-14 NCR	12-1-83

033258.03

79-14 PHASE STATUS

- I. Phase II Contractor: Teledyne Engineering Services
- II. Phase II Start Date: August 22, 1983
- III. Total Phase II Packages: 9 Packages (listed below)
- IV. Teledyne Inspection Completed: 9 Packages
- V. TVA Review Complete: 9 Packages (status shown below)

System	Phase II Package No.	Deviations		Discrepancies		Non-Significant		Significant		DPLPB*	
		Pipe	Hangers	Pipe	Hangers	Pipe	Hangers	Pipe	Hangers	Pipe	Hangers
MS	1T01-600200-06-04	49	53	7	14	7	14	0	0	0	0
FW	1T03-47W401-208	20	15	0	0	0	0	0	0	0	0
AFW	1T03-47W427-200	10	26	1	0	1	0	0	0	0	0
CVCS	1T62-47W406-203	18	22	4	7	4	7	0	0	0	0
SI	1T63-47W435-217	17	21	0	0	0	0	0	0	0	0
ERCW	1T67-47W450-217	8	52	1	4	1	4	0	0	0	0
RC	1T68-47W465-206	54	44	12	5	12	5	0	0	0	0
CC	1T70-47W464-242	3	55	1	2	1	2	0	0	0	0
CS	1T72-47W437-201	42	58	0	3	0	0	0	0	0	0

*Definite Potential For Loss of Pressure Boundary