

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

Revision 0
Page 1 of 2

Discrepancy No.: 1T72-47W437-201/03V

Support No.: N/A

Description of Discrepancy: Deviation No: 3V

Valve operator orientation (installed) does not agree with analysis
isometric. Valve is installed in +YG direction.

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: Problem N3-72-1A has a node 7V4 coded 8-11/16" above N.P.
7V2 with a lumped mass of 198 lbs. The valve is constructed as per physical
drawing 47W437-2 and has been analyzed as such. The weight has been modeled
(continued on next page)

Resolution: Isometric drawing 47W437-201 will be revised to show valve
C.G.@N.P. 7V4 which will resolve this discrepancy. Computer analysis is
correct.

[Signature]
Preparer

11/3/83
Date

[Signature]
Checker 11-3-83
Date

[Signature]
Supervisor 11-3-83
Date

[Signature]
Concurren

10-4-83
Date

[Signature]
Reviewer 11-4-83
Date

[Signature]
Supervisor 11/7/83
Date

Discrepancy No. 1T72-47W437-201/03V

Basis for judgement: (cont) conservatively. This discrepancy is nonsignificant because
it is analysis documentation only. Center of gravity node point will be added to the
isometric.

11

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

Revision 0
Page 1 of 2

Discrepancy No.: 1T72-47W437-201/04V

Support No.: N/A

Description of Discrepancy: Deviation No: 4V1

Valve location is not specified on analysis isometric.

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: Valve is installed per physical drawing 47W437-2. The as-analyzed condition differs from the as-constructed condition by 6"

This discrepancy is nonsignificant because stresses are low in this region
(continued on next page)

Resolution: The as-constructed valve location is acceptable. Isometric drawing 47W437-201 will be revised to resolve this discrepancy.

D. M. D.
Preparer

11/3/83
Date

Chris R. Kest
Checker 11.3.83
Date

[Signature]
Supervisor 11-3-83
Date

R. C. [Signature]
Concurren 11-4-83
Date

E. R. [Signature]
Reviewer 11-4-83
Date

M. D. [Signature]
Supervisor 11/4/83
Date

Discrepancy No. 1T72-47W437-201/04V

Basis for judgement: (cont) and this minor change will have an insignificant effect on
the analysis.

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

Revision 0
Page 1 of 2

Discrepancy No.: 1T72-47W437-201/05V

Support No.: N/A

Description of Discrepancy: Deviation No: 5V

Valve operator orientation installed (45° Skew from +XG) does not agree with analysis isometric (not shown on ISO)

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: Valve is installed as per physical drawing 47W437-2.

A lumped mass at the center of gravity has been modeled in the computer analysis although it is different (90°) from the as-built condition. This discrepancy

(Continued)

Resolution: The as-constructed valve operator orientation is acceptable.

Isometric drawing 47W437-201 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]
Concurrer

11-4-83
Date

[Signature]
Reviewer

11-4-83
Date

[Signature]
Supervisor

11-7-83
Date

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

Revision 0
Page 1 of 1

Discrepancy No.: 1T72-47W437-201/01H

Support No.: 72-1CS -R32

Description of Discrepancy: Bolt spacing, 5" is less than spacing shown
per drawing 72-1CS-R32 , DEVIATION No. 02H

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: Minimum spacing for full allowable load, for 1/2" ϕ
SSD bolts = 5" PSOM 7.14.3 Table B.

Resolution: Use as-constructed, drawing 72-1CS-R32 will be revised to show
bolt spacing at 5".

E.R. Winters
Preparer

11-4-83
Date

R.P. Anshut
Checker

11-4-83
Date

M.D. Davis
Supervisor

11/7/83
Date

Ali
Concurreter

11-8-83
Date

[Signature]
Reviewer

11/8/83
Date

[Signature]
Supervisor

11/1/85
Date

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

Revision 0
Page 1 of 1

Discrepancy No.: 1T72-47W437-201/02H

Support No.: 72-1CS-R40

Description of Discrepancy: Top base plate extends 3" onto the embedded plate, not 4" as shown on drawing 72-1CS-R40. DEVIATION No. 11H

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: The base plate configuration is adequate as-built.

Resolution: An NCR will be written against the original support 72-1CS-R40 (R0) because it is structurally unsound. Support 72-1CS-R40 will be redesigned and reissued.

E.R.Winters
Preparer 11-8-83
Date

R.A. Andat
Checker 11-8-83
Date

M.D. Davis
Supervisor 11/8/83
Date

Ali
Concurreter 11/8/83
Date

Ph. J.
Reviewer 11/8/83
Date

J.W.P.
Supervisor 11/8/83
Date

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

Revision 0
Page 1 of 1

Discrepancy No.: 1T72-47W437-201/03H

Support No.: 72-1CS-R40

Description of Discrepancy: Bottom base plate extends onto the embedded plate, not shown in the section view of support. DEVIATION No. 12H.

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: The base plate configuration is adequate as-built.

Resolution: An NCR will be written against the original support 72-1CS-R40 (RO) because it is structurally unsound. Support 72-1CS-R40 will be redesigned and reissued.

E.R. Winters 11-8-83
Preparer Date

R.P. Arbet 11-8-83
Checker Date

M.D. Davis/s 11/8/83
Supervisor Date

Ali 11/8/83
Concurrer Date

[Signature] 11/8/83
Reviewer Date

[Signature] 11/8/83
Supervisor Date

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

Revision 0
 Page 1 of 4

Package No.: 1T68-47W465-206 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	N/A	1T68-47W465-206/01C	N/A
2C	N/A	N/A	1T68-47W465-206/02C	N/A
3C	1R68-47W465-206/12P	N/A	N/A	N/A
4C	1R68-47W465-206/27P	N/A	N/A	N/A
5C	N/A	N3C-912 Sect. 6.3.1	N/A	Protective device
6C	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
 CONST/EN DES

August 31, 1983
 Date

Reviewed by SK Shupe
 EN DES

August 31, 1983
 Date

033131.25

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

Revision 0
Page 2 of 4

Package No.: 1T68-47W465-206 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	NC3-912 Sect. 6.3.1	N/A	Protective device
8C	N/A	NC3-912 Sect. 6.3.1	N/A	Protective device
9C	N/A	NC3-912 Sect. 6.3.1	N/A	Protective device
10C	N/A	NC3-912 Sect. 6.3.1	N/A	Protective device
11C	N/A	NC3-912 Sect. 6.3.1	N/A	Protective device
12C	N/A	NC3-912 Sect. 6.3.1	N/A	Protective device
13C	N/A	NC3-912 Sect. 6.3.1	N/A	Protective device
14C	N/A	N/A	1T68-47W465-206/03C	N/A
15C	N/A	GCS G-43 Sect. 2.0	N/A	N/A
16C	N/A	N3C-912 Sect. 6.3.1	N/A	Movements shown on analysis ISO
17C	N/A	N/A	1T68-47W465-206/05C	N/A
18C	N/A	N3C-912 Sect. 6.3.1	N/A	Movements shown on analysis ISO
19C	1R68-47W465-206/13P	N/A	N/A	N/A
20C	N/A	N3C-912 Sect. 6.3.1	N/A	Movements shown on analysis ISO
21C	N/A	N3C-912 Sect. 6.3.1	N/A	Movements shown on analysis ISO
22C	N/A	N3C-912 Sect. 6.3.1	N/A	Movements shown on analysis ISO
23C	N/A	N3C-912 Sect. 6.3.1	N/A	Movements shown on analysis ISO
24C	N/A	N/A	1T68-47W465-206/06C	Movements shown on analysis ISO
25C	N/A	N3C-912 Sect. 6.3.1	N/A	Movements shown on analysis ISO

Prepared by Robert C. McKay
CONST/EN DES

August 31, 1983
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Reviewed by S.K. Shaffer
EN DES

August 31, 1983
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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.: 1T68-47W465-206 Inspection Drawing: ⁽¹⁾ See Package No.

(2) Deviation No.	(3) Phase I Discrepancy No.	(4) Acceptance Criteria	(5) Phase II Discrepancy No.	(6) Comments
26C	N/A	N/A	1T68-47W465-206/07C	N/A
27C	1R68-47W465-206/08P	N/A	N/A	N/A
28C	N/A	N3C-912 Sect. 6.3.1	N/A	Movements shown on analysis ISO
29C	1R68-47W465-206/18P	N/A	N/A	N/A
30C	1R68-47W465-206/19P	N/A	N/A	N/A
31C	1R68-47W465-206/20P	N/A	N/A	N/A
32C	N/A	N3C-912 Sect. 6.3.1	N/A	Movements shown on analysis ISO
33C	N/A	N3C-912 Sect. 6.3.1	N/A	Movements shown on analysis ISO
34C	1R68-47W465-206/21P	N/A	N/A	N/A
35C	1R68-47W465-206/22P	N/A	N/A	N/A
36C	1R68-47W465-206/23P	N/A	N/A	N/A
37C	N/A	N/A	1T68-47W465-206/08C	N/A
38C	N/A	N/A	1T68-47W465-206/09C	N/A
39C	N/A	N3C-912 Sect. 6.3.1	N/A	Movements shown on analysis ISO
40C	N/A	N/A	1T68-47W465-206/10C	Movements shown on analysis ISO
41C	N/A	N/A	1T68-47W465-206/11C	N/A
42C	N/A	N/A	1T68-47W465-206/12C	N/A
43C	N/A	N3C-912 Sect. 6.3.1	N/A	Movements shown on analysis ISO
44C	N/A	N3C-912 Sect. 6.3.1	N/A	Movements shown on analysis ISO

Prepared by Robert C. McKay / *[Signature]*
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August 31, 1983
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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.: 1R68-47W465-206 Inspection Drawing: ⁽¹⁾ See Package No.

(2) Deviation No.	(3) Phase I Discrepancy No.	(4) Acceptance Criteria	(5) Phase II Discrepancy No.	(6) Comments
45C	1R68-47W465-206/09P	N/A	N/A	N/A
46C	N/A	N3C-912 Sect. 6.3.1	N/A	Movements shown on analysis ISO
47C	N/A	N3C-912 Sect. 6.3.1	N/A	Movements shown on analysis ISO
48C	N/A	N3C-912 Sect. 6.3.1	N/A	Movements shown on analysis ISO
49C	N/A	N3C-912 Sect. 6.3.1	N/A	Movements shown on analysis ISO
50C	1R68-47W465-206/10P	N/A	N/A	N/A
51P	Tva inspection and Teledyne reinspections reveals no deviation exists.			
52P	N/A	N/A	1R68-47W465-206/04P	N/A
53P	N/A	GCS G-43 Sect. 2.8.1.3	N/A	N/A
54C	N/A	N3C-912 Sect. 6.3.1	N/A	Movements shown on analysis ISO

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

Reviewed by *[Signature]* August 31, 1983
 EN DES 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 4

Package No.: 1T68-47W465-206 R/1 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
1T68-47W465- 206 R/1-1H	N/A	G-43 Sect. 2.8.1.3	N/A	
-2H	None	None	1T68-47W465-206/01H	
-3H	N/A	N/A	N/A	*(Sheet 4 of 4)
-4H	N/A	N3C-912 Sect. 3.2.1	N/A	
-5H	N/A	N3C-912 Sect. 3.2.1	N/A	
-6H	N/A	N/A	N/A	*(Sheet 4 of 4)

NOTES:

- (1) This is an analysis isometric drawing number.
- (2) All deviations are to be listed consecutively.
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- (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

September 1, 1983
 Date

Reviewed by J. D. Waldrop
 EN DES

September 1, 1983
 Date

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

Revision 0
 Page 2 of 4

Package No.: 1T68-47W465-206 R/1 Inspection Drawing: ⁽¹⁾ See Package No.

(2) Deviation No.	(3) Phase I Discrepancy No.	(4) Acceptance Criteria	(5) Phase II Discrepancy No.	(6) Comments
1T68-47W465- 206 R/1-7H	None	None	1T68-47W465-206/C2H	
-8H	N/A	47A050-1M R/5 Note 50	N/A	
-9H	N/A	N3C-912 Sect. 3.2.1 47A050-1M R/5 Note 25	N/A	
-10H	N/A	N3C-912 Sect. 3.2.1	N/A	
-11H	N/A	N/A	N/A	*(Sheet 4 of 4)
-12H	N/A	N/A	N/A	*(Sheet 4 of 4)
-13H	N/A	G-43 Sect. 2.8.1.3	N/A	
-14H	N/A	G-43 Sect. 2.8.1.3	N/A	
-15H	N/A	N3C-912 Sect. 3.2.1	N/A	
-16H	N/A	47A050-1M R/5 Note 50	N/A	
-17H	N/A	N3C-912 Sect. 3.2.1	N/A	
-18H	N/A	47A050-1M R/5 Note 25	N/A	
-19H	1R68-47W465-206/ 09H	N/A	N/A	
-20H	N/A	47A050-1M R/5 Note 25	N/A	
-21H	N/A	47A050-1C R/6 Note 7	N/A	
-22H	None	None	1T68-47W465-206/03H	
-23H	N/A	47A050-1C R/6 Note 7	N/A	
-24H	N/A	47A050-1M R/5 Note 7	N/A	

Prepared by Robert C. McKay
 CONST/EN DES

September 1, 1983
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September 1, 1983
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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.: 1T68-47W465-206 R/1 Inspection Drawing: ⁽¹⁾ See Package No.

(2) Deviation No.	(3) Phase I Discrepancy No.	(4) Acceptance Criteria	(5) Phase II Discrepancy No.	(6) Comments
1T68-47W465- 206 R/1-25H	N/A	N3C-912 Sect. 3.2.1	N/A	
-26H	N/A	47A050-1M R/5 Note 25	N/A	
-27H	N/A	47A050-1M R/5 Note 25	N/A	
		47A050-1M R/5 Note 50		
-28H	N/A	47A050-9 R/2 & 9A R/2	N/A	
		47A050-1M R/5 Note 61		
-29H	N/A	N/A	N/A	** (Sheet 4 of 4)
-30H	N/A	47A050-1T R/1 Note 3	N/A	
-31H	N/A	47A050-9 R/2 & 9A R/2	N/A	
-32H	N/A	N/A	N/A	* (Sheet 4 of 4)
-33H	N/A	N/A	N/A	* (Sheet 4 of 4)
-34H	N/A	G-43 Sect. 2.8.1.2	N/A	
-35H	N/A	G-43 Sect. 2.9.1	N/A	
-36H	N/A	G-43 Sect. 2.8.1.3	N/A	
-37H	N/A	G-43 Sect. 2.8.1.3	N/A	
-38H	N/A	47A050-1C R/6 Note 98	N/A	
		G-43 Sect. 2.8.1.3		
-39H	N/A	G-43 Sect. 2.8.1.3 47A050-1C R/6 Note 98		

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

September 1, 1983
 Date

Reviewed by *[Signature]*
 EN DES

September 1, 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 2

Discrepancy No.: 1T68-47W465-206/01C

Support No.: N/A

Description of Discrepancy: Deviation No: 1C

interference is 0" in the +Y direction from insulated pipe to RR (SX) 3 1/2" x 7 1/2"

location: 5' from node 69 in -X

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: This is nonsignificant because piping qualification level would likely not have been exceeded. Just 1/16" of mirror insul. would have been indented thermally. From analysis, (continued on next page)

Resolution: Clearance must be provided to accommodate the total pipe movement of 1/4" (thermal movement = 1/16").

Ali 9-26-83 Chris R. Kus 11-3-83
Preparer Date Checker Date

[Signature] 11-7-83
Supervisor Date

D. W. Posey 07 NOV 83
Concurer Date

[Signature] 11-7-83
Reviewer Date

M. D. Davis 11-8-83
Supervisor Date

Discrepancy No. T68-47W465-206/01CBasis for judgement: (cont.)

Maximum pipe movement in +Y direction @node 67 is 0.235" = $\frac{1}{4}$ " interfering steel member
 $3\frac{1}{2}$ " - $7\frac{1}{2}$ " is considered to be rigid; hence no movements. Therefore total clearance to
be provided = $\frac{1}{4}$ " + 0 = $\frac{1}{4}$ ". seismic interference is only 3/16". but as per construction
specification N3C-912 section 6.3.5.5 b(i), this is acceptable.

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

Revision 0
Page 1 of 2

Discrepancy No.: 1T68-47W465-206/02C

Support No.: N/A

Description of Discrepancy: Deviation No: 2C

interference is 1/2" in the +Z direction from insulated pipe to R. C. pump

housing insulation, location 5' from 69 in -X.

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: This is a nonsignificant discrepancy because piping stresses would likely not have been exceeded. From analysis (continued on next page)

Resolution: Clearance must be provided to accommodate the total pipe movement of 15/16" (thermal movement = 7/8").

Ali
Preparer

9.26.83
Date

Chris R. York
Checker

11.3.83
Date

[Signature]
Supervisor

11-2-83
Date

D.W. Posny
Concurren

01 NOV 83
Date

E. G. Bellifant
Reviewer

11-7-83
Date

M. A. Davis
Supervisor

11-8-83
Date

Discrepancy No. IT68-47W465-206/02C

Basis for judgement: (cont)

maximum pipe movement @ node 67 in +Z direction = 0.911" = 15/16". Interfering target,

R. C. pump housing essentially moves with the pump and the pipe as per CEB representative
on site, therefore little interference is likely to occur. However, conservatively pump

housing is considered rigid and 5/16" of clearance should be provided to accommodate pipe
movement. Seismic interference is only 1/16".

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

Revision 0
Page 1 of 2

Discrepancy No.: 1T68-47W465-206/03C

Support No.: N/A

Description of Discrepancy: Deviation No: 14C

Interference is 2 1/2" in the +Y direction from uninsulated pipe to flex. hose off

valve 1-PCV-68-3400 location: 1'-5" from 117 in -X (2 1/2" mirror insulation had not been

installed)
Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: This is nonsignificant because pipe movements are shown on the
isometric and would have been properly considered when the insulation was installed.

The flexible hose does not have any significant restraining effect on pipe movement,

(continued on next page)

Resolution: Clearance must be provided to accommodate the total pipe movement of

11/16" (thermal movement = 9/16")

Ali
Preparer

9.26.83
Date

Chas R. Kest
Checker

11.2.83
Date

J. A. [Signature]
Supervisor

11-3-83
Date

W. W. [Signature]
Concurren

07/10/83
Date

E. C. [Signature]
Reviewer

11-7-83
Date

M. D. [Signature]
Supervisor

11-8-83
Date

Discrepancy No. T68-47W465-206/03C

Basis for judgement: (cont)

which is 11/16" in +Y direction at node 115. Nevertheless, provide 11/16" clearance
to accommodate the total pipe movement. Seismic interference is 1/8".

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

Revision 0
Page 1 of 2

Discrepancy No.: 1T68-47W465-206/04P

Support No.: N/A

Description of Discrepancy: Deviation No: 52P

ISO El. should be 721'-5" (ISO shows pipe run between nodes C07 and C08 @ El. 720'-5 1/2")

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: This is nonsignificant because piping qualification level will not be exceeded. Stresses are presently low in that region. Inspection of supporting scheme indicated that this will not cause any significant increase on
(cont on next page)

Resolution: _____

The as-constructed piping configuration is acceptable. ISO drwg No. 47W465-206 will be revised to resolve this discrepancy.

Ali
Preparer
9.26.83
Date

Chris R. V...
Checker
11.3.83
Date

P. ...
Supervisor
11.3.83
Date

D. W. ...
Concurreter
07/20/83
Date

E. C. ...
Reviewer
11-7-83
Date

M. D. Davis
Supervisor
11-8-83
Date

Discrepancy No. 1T68-47W465-206/04P

Basis for judgement: (cont)
the support loads.

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

Revision 0
Page 1 of 2

Discrepancy No.: 1T68-47W465-206/05C

Support No.: N/A

Description of Discrepancy: Deviation No: 17C

Interference is 1 1/2" in the +Z direction from uninsulated pipe to hydraulic line.

Location: 2'-6" from 113 in -X (2 1/2" of mirror insulation had not been installed).

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: This is nonsignificant because pipe movements are shown on the isometric and would have been properly considered when the insulation was

installed. As per field, the interfering hydraulic line is actually an instrument
(continued on next page)

Resolution: Clearance must be provided to accommodate the total pipe movement of 15/16" (thermal movement = 7/8").

Ali
Preparer

9.26.83
Date

Chris R. Kay
Checker

11.3.83
Date

P. M. V. L.
Supervisor

11-3-83
Date

D. W. Perry
Concurren

09 Nov 83
Date

E. L. Bellinger
Reviewer

11-7-83
Date

M. D. Davis
Supervisor

11-8-83
Date

Discrepancy No. 1T68-47W465-206/05C

Basis for judgement: (cont)

line (air-line). This is rigidly supported by a unistrut hanger; hence it does not have
any movements. The walkdown pipe movement @ node 116 in +Z = 0.931 = 15/16". Clearance
must be provided. Seismic interference is 1/16".

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

Revision 0
Page 1 of 2

Discrepancy No.: 1T68-47W465-206/06C

Support No.: N/A

Description of Discrepancy: Deviation No: 24C

Interference is 0" in the +X dir. from insulated pipe to conduit (reinspection

by CEB on site rep. indicates clearance is 3/4") loc. 11" from node 22 in +Y
(+X from node 3 to 7)

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: This is a nonsignificant discrepancy because piping qualification
level would likely not have been exceeded. From analysis, the maximum pipe movement @ node
(continued on next page)

Resolution: After thorough evaluation of all pipe movements in the area of the
discrepancy the as-constructed clearance is adequate.

Ali
Preparer

9.26.83
Date

[Signature]
Checker

11-3-83
Date

[Signature]
Supervisor

11-3-83
Date

[Signature]
Concurre

07 Nov 83
Date

[Signature]
Reviewer

11-7-83
Date

[Signature]
Supervisor

11-8-83
Date

Discrepancy No. 1T68-47W465-206/06C

Basis for judgement: (cont)

20 in +X direction = 0.0121 = 1/16". The interfering item conduit is considered to be
rigid; hence it does not move. Therefore, a clearance of = 1/16" + 0 = 1/16" must be
provided to accommodate the total pipe movement. Seismic interference is 1/16".

Reinspection by CEB on site representative indicated clearance is 3/4".

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

Revision 0
Page 1 of 2

Discrepancy No.: 1T68-47W465-206/07C

Support No.: N/A

Description of Discrepancy: Deviation No: 26C

Interference is $\frac{1}{2}$ " in the -X direction from uninsulated pipe to conduit. Location
2' - 10" from node 22 in +Y (+X from node 3 to 7) ($2\frac{1}{2}$ " of mirror insulation had
not been installed)

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: This is nonsignificant because pipe movements are shown
on the isometric and would have been properly considered when the insulation was
installed. From analysis maximum pipe movement @ node 19 in -X=0.929. The
(continued on next page)

Resolution: Clearance must be provided to accommodate the total pipe
movement of 15/16" (thermal movement = 13/16")

Ali 9.26.83 Chris R. Veir 11.3.83
Preparer Date Checker Date

[Signature] 11-3-83
Supervisor Date

J. W. Perry 09/26/83 E. L. [Signature] 11-7-83
Concurren Date Reviewer Date

[Signature] 11-8-83
Supervisor Date

Discrepancy No. 1T68-47W465-206/07C

Basis for judgement: (cont)

interfering conduit is essentially rigid; hence it does not move. A clearance of 15/16"

must be provided.

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

Revision 0
Page 1 of 2

Discrepancy No.: 1T68-47W465-206/08C

Support No.: N/A

Description of Discrepancy: Deviation No: 37C

Interference is "0" in +Y direction from uninsulated pipe to snubber on support
1-68-22, location: at node 29 (2 1/2" of mirror insulation had not been installed)

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: This is nonsignificant because pipe movements are shown on
the isometric and would have been properly considered when the insulation was
installed. From analysis maximum pipe movement in +Y dir. @ node 29 = 0.36 = 3/8".

(continued on next page)

Resolution: Clearance must be provided to accommodate the total pipe movement
of 3/8" (thermal movement = 3/8").

Ali 9.26.83 Chris R. V... 11-3-83
Preparer Date Checker Date

[Signature] 11-7-83
Supervisor Date

D.W. Poney 07 Nov 83
Concurren Date

E. G. [Signature] 11-7-83
Reviewer Date

M. [Signature] 11-8-83
Supervisor Date

EN DES-SEP 82-25

Revision 0
Page 2 of 2

Discrepancy No. 1T68-47W465-206/08C

Basis for judgement: (cont)

By looking @ the pipe support design drawing 1-68-22 and as per conversation with the

field, snubber does not move towards pipe in -Y direction. Therefore a clearance of

3/8" must be provided to accommodate total pipe movement.

79-74 PHASE II
DISCREPANCY EVALUATION FORM
WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0
Page 1 of 2

Discrepancy No.: 1T68-47W465-206/09C

Support No.: N/A

Description of Discrepancy: Deviation No: 38C

Interference is 1 1/2" in the -Y direction from uninsulated pipe to conduit.

Location: from node 93 to 98 (2 1/2" of mirror insulation had not been installed)

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: This is nonsignificant because pipe movements are shown on the isometric and would have been properly considered when the insulation was installed. From analysis maximum movement @node 98 in -Y dir. = 0.3138 = 5/16"
(continued on next page)

Resolution: Clearance must be provided to accommodate the total pipe movement of 5/16" (thermal movement = 1/2").

Ali
Preparer

9-26-83
Date

Chris R. Kuch
Checker

11-3-83
Date

E. J. [Signature]
Supervisor

11-3-83
Date

J. W. Porey
Concurreter

07 Nov 83
Date

E. C. Belligan
Reviewer

11-7-83
Date

M. D. Harris
Supervisor

11-8-83
Date

Discrepancy No. 1T68-47W465-206/09C

Basis for judgement: (cont)

interfering conduit is considered rigid; hence it will not move. Therefore only 5/16"

clearance must be provided to accommodate the pipe movement. Seismic interference is

1/16"

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

Revision 0
Page 1 of 2

Discrepancy No.: 1T68-47W465-206/10C

Support No.: N/A

Description of Discrepancy: Deviation No. 40C

Interference is 3" in the -Z dir. from uninsulated pipe to wall. Location: 1' - 10"

from node 92 to 100 (2 1/2" of mirror insulation had not been installed)

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: This is nonsignificant because pipe movements are shown on the isometric and would have been properly considered when the insulation was installed. From analysis, screening nodes from 92 to 100, maximum pipe
(continued on next page)

Resolution: Clearance must be provided to accommodate the total pipe movement of 1 1/2" (thermal movement = 1-3/15").

Ali
Preparer

9-26-83
Date

Chris R. Kesh
Checker

11-3-83
Date

P. J. [Signature]
Supervisor

11-3-83
Date

D. W. [Signature]
Concurreter

07/26/83
Date

E. C. [Signature]
Reviewer

11-7-83
Date

M. D. [Signature]
Supervisor

11-8-83
Date

Discrepancy No. 1T68-47W465-206/10C

Basis for judgement: (cont)

movement in -Z dir = 1.222 = 1 1/4". The interfering object is a wall which is a rigid
structure; hence it will not move. A clearance of 1 1/4" must be provided. Seismic
interference is 1/16".

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

Revision 0
Page 1 of 2

Discrepancy No.: 1T68-47W465-206/11C

Support No.: N/A

Description of Discrepancy: Deviation No: 41C

Interference is 0" in -Z direction from valve to conduit elbow. Location: at
node 96 (2½" of insulation had not been installed)

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: This is nonsignificant because pipe movements are shown on the
isometric and would have been properly considered when the insulation was
installed. From analysis maximum pipe movement @ node 96 in -Z = 1.2036 = 1½".

(Continued on next page)

Resolution: Clearance must be provided to accommodate the total pipe
movement of 1½" (thermal movement = 1-3/16").

Ali
Preparer

9-26-83
Date

Chris R. Kesler
Checker

11-3-83
Date

R. R. Zill
Supervisor

11-3-82
Date

D. W. Poney
Concurter

07/24/83
Date

E. G. Bellham
Reviewer

11-7-83
Date

M. Albani
Supervisor

11-8-83
Date

EN DES-SEP 82-25

Revision 0

Page 2 of 2

Discrepancy No. IT68-47W465-206/11C

Basis for judgement: (cont)

The interfering conduit is considered rigid; hence it will not move. A clearance of

1 1/2" must be provided to accommodate the pipe movement.

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

Revision 0
Page 1 of 2

Discrepancy No.: 1T68-47W465-206/12C

Support No.: N/A

Description of Discrepancy: Deviation No: 42C

Interference is 1 1/2" in the +Z direction from uninsulated valve to uninsulated pipe @ node 78 Location: at node 96 (2 1/2" of insulation had not been installed)

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: This is nonsignificant because pipe movements are shown on the isometric and would have been properly considered when the insulation was

installed. From analysis maximum movements @ node 96 in +Z direction = 1/16"

(continued on next page)

Resolution: Clearance must be provided to accommodate the total pipe movement of 15/16" (thermal movement = 3/4").

Ali
Preparer

9-26-82
Date

Chris R. Lee
Checker

11-3-83
Date

[Signature]
Supervisor

11-2-83
Date

D.W. Bozuy
Concurrer

01/16/83
Date

[Signature]
Reviewer

11-7-83
Date

M.D. Davis
Supervisor

11-8-83
Date

Discrepancy No. 1T68-47W465-206/12C

Basis for judgement: (cont.) (thermal = 0) maximum pipe movement @ node 78 in -Z
direction = 0.8486 = 7/8" (thermal = 3/4"). Total movement = 1/16" + 7/8" = 15/16" and
total thermal = 0 + 3/4" = 3/4". Therefore a clearance of 15/16" must be provided to
accommodate the total pipe movement. Seismic interference is 3/16".

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

Revision 0
Page 1 of 2

Discrepancy No.: 1T68-47W465-206/01H

Support No.: 1-68-034 R2

Description of Discrepancy: Deviation No: 2H

Support is at N.P. S51 (actually support is @ 'X' location but the arrow points

to node 51 on Iso. S51 is not a support node number

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: This is nonsignificant because this discrepancy had
previsouly been identified and the as-built location is correctly dimensioned

on the phase II walkdown isometric 47W465-206 R1. However, the arrow is
(continued on next page)

Resolution: Iso drawing No. 47W465-206 will be revised to show the arrow
@ 'X' location for support 1-68-034. This is a minor documentation change only
and does not affect analysis.

Ali
Preparer

9-26-83
Date

Chris R. Kirk
Checker

11-3-83
Date

[Signature]
Supervisor

11-3-83
Date

W. W. Pory
Concurrer

07 Nov 83
Date

E. L. Billings
Reviewer

11-7-83
Date

M. D. Davis
Supervisor

11-8-83
Date

EN DES-SEP 82-25

Revision 0
Page 2 of 2

Discrepancy No. T68-47W465-206/01H

Basis for judgement: (cont)

incorrectly pointing to node 51 instead of as-built hanger location @ X. This

must be corrected on isometric.

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

Revision 0
Page 1 of 1

Discrepancy No.: 1T68-47W465-206/02H

Support No.: 1-68-040

Description of Discrepancy: Deviation No. 7H

Bill of Material item 4 does not fit configuration shown on face of drawing.

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: Field installed correct configuration.

Resolution: Revise 1-68-040 Bill of Material

D.W. Posny
Prepared

4 NOV 83
Date

E.C. Bellingham
Checked

11/4/83
Date

M. D. Davis
id Steiner
Supervisor

11/7/83
11/7/83
Date

Ali
Concurred

11-8 83
Date

Pho B
Reviewer

11/8/83
Date

J. M. Hill
Supervisor

11/14/83
Date

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

Revision 0
Page 1 of 1

Discrepancy No.: 1T68-47W465-206/3H

Support No.: 1-68-050

Description of Discrepancy: Deviation No. 22H

Pin to pin of snubber at cold position 14" not 12" as per drawing

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: Catalog shows snubber range

Pin to pin is 14-3/8". Maximum ΔT = 1/4", maximum dimension = 14 1/2". Hot functional

test W1.7 shows snubber is adequate

Resolution: Use as is. Drawing 1-68-050 will be revised to show new pin-to-pin
dim.

A. W. Posing
Preparer

4 NOV 83
Date

E. C. Bellingham
Checker

11/4/83
Date

M. P. Davis
Arthur L. Strick
Supervisor

11/7/83
11/7/83
Date

Ali
Concurree

1-8-83
Date

[Signature]
Reviewer

11/8/83
Date

[Signature]
Supervisor

11/10/83
Date

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

Revision 0
Page 1 of 2

Discrepancy No.: 1T68-47W465-206/04H

Support No.: 1-68-035

Description of Discrepancy: Deviation No: 40H

In section "D-D" of sht 3/3 top left plate edge dist from plate to centerline of bolt is 1-3/4" not 1" as per drawing.

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: This is a nonsignificant because the major effect is to reduce the distance centerline to centerline of bolts from 5 1/4" to 4-3/4". For a 1/2"

diameter anchor minimum centerline to centerline is 5". So bolt allowable loads are
(continued on next page)

Resolution: Use as is. G43 allows movement to avoid rebar. The hanger drawing will be revised to show the as-built bolt spacing.

W. W. Long
Preparer

9 NOV 83
Date

E. C. Bellington
Checker

11/4/83
Date

M. O. Davis
B. Braker
Supervisor

11/7/83
11/14/83
Date

Ali
Concurreter

11-8-83
Date

D. L. ...
Reviewer

11/8/83
Date

...
Supervisor

11/16/83
Date

Discrepancy No. 1T68-47W465-206/04H

Basis for judgement: (cont)

reduced by 0.7%. Load calculations show this is acceptable.

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

Revision 0
Page 1 of 1

Discrepancy No.: 1T68-47W465-206/05H

Support No.: 1-68-036

Description of Discrepancy: Deviation No: 41H

Support is at N.P. 51 (analyzed support is @ N.P. 51A and as-built location moved by 2-7/8"; node 51A is not dimensioned on isometric).

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: This is nonsignificant because the support moved by only 2-7/8" which is within the tolerances of TVA spec G43 Subsec. 2.8.1.1. However isometric drawing 47W465-206 must be revised to show the location of node 51A which is not dimensioned.

Resolution: ISO drawing 47W465-206 will be revised to show the location of support JT. 51A. The as-built location is within the tolerances of G-43.

Ali 9-26-83 [Signature] 11/8/83
Preparer Date Checker Date

[Signature] 11/8/83
Supervisor Date

DW Posing 08 Nov 83
Concurreter Date

E. C. Sullivan 11/8/83
Reviewer Date

M. D. Davis 11/8/83
Supervisor Date

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

Revision 0
Page 1 of 4

Package No.: 1T01-0600200-06-04 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	Movement shown on analysis ISO
2C	N/A	N3C-912 Sect. 5.3.1	N/A	Movement shown on analysis ISO
3C	N/A	N3C-912 Sect. 6.3.1	N/A	Movement shown on analysis ISO
4C	N/A	N3C-912 Sect. 6.3.1	N/A	Movement shown on analysis ISO
5C	N/A	N3C-912 Sect. 6.3.1	N/A	PD00-9
6C	N/A	N3C-912 Sect. 6.3.1	N/A	PD00-9

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 column (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 3 of 4

Package No.: 1T01-0600200-06-04 Inspection Drawing: ⁽¹⁾ See Package No.

(2) Deviation No.	(3) Phase I Discrepancy No.	(4) Acceptance Criteria	(5) Phase II Discrepancy No.	(6) Comments
27C	N/A	N3C-912 Sect. 6.3.1	N/A	PD07-14
28C	N/A	N3C-912 Sect. 6.3.1	N/A	PD07-13
29C	N/A	N3C-912 Sect. 6.3.1	N/A	Movement shown on analysis ISO
30C	N/A	N3C-912 Sect. 6.3.1	N/A	Movement shown on analysis ISO
31C	N/A	N3C-912 Sect. 6.3.1	N/A	Movement shown on analysis ISO
32V	N/A	N3C-912 Sect. 6.3.1	N/A	Movement shown on analysis ISO
33C	N/A	N3C-912 Sect. 6.3.1	N/A	PD07-11
34C	N/A	N3C-912 Sect. 6.3.1	N/A	PD07-10
38P	1R01-0600200-06-04/ 20P	N/A	N/A	N/A
39P	1R01-0600200-06-04/ 20P	N/A	N/A	N/A
40P	1R01-0600200-06-04/ 20P	N/A	N/A	N/A
41P	N/A	N/A	1T01-0600200-06-04/ 01P	Remove reference dimension from DWG
42P	Insulation is in construction progress and will be installed with site procedure.			In accordance
43P	N/A	SEP 82-25, Attachment 2	N/A	Inaccessible
44P	N/A	SEP 82-25, Attachment 2	N/A	Inaccessible
45P	N/A	N/A	1T01-0600200-06-04/ 02P	Physical DWG is correct. Analysis ISO to be revised to agree.
46P	N/A	N/A	1T01-0600200-06-04/ 03P	N/A
48P	N/A	N/A	1T01-0600200-06-04/ 04P	Remove reference dimension from DWG

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

Reviewed by JK *[Signature]* August 31, 1983
 EN-DES 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 5

Package No.: 1T01-0600200-06-04 Inspection Drawing: ⁽¹⁾ 47W400-216 R/O
~~See Package No.~~

(2) Deviation No.	(3) Phase I Discrepancy No.	(4) Acceptance Criteria	(5) Phase II Discrepancy No.	(6) Comments
01H	N/A	47A050-1M R/5 Note 16 & 25, G-43 Sect. 2.10.1.2	N/A	11' 8" MAX P-P at 110K
02H	N/A	G-43 Sect. 2.8.1.3	N/A	
03H	N/A	47A050-1M R/5 Note 50	N/A	
04H	N/A	47A050-1M R/5 Note 50	N/A	
05H	N/A	N/A	N/A	*(Sheet 4 of 5)

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 / *Danny Sample*
 CONST/EN DES

September 1, 1983
 Date

Reviewed by *J. O. Waldrop*
 EN DES

September 1, 1983
 Date

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

Revision 0
 Page 2 of 5

Package No.: 1T01-0600200-06-04 Inspection Drawing: ⁽¹⁾ 47W400-216 R/0
~~See Package No.~~

(2) Deviation No.	(3) Phase I Discrepancy No.	(4) Acceptance Criteria	(5) Phase II Discrepancy No.	(6) Comments
06H	N/A	47A050-1C R/6 Note 7	N/A	
07H	N/A	47A050-1C R/6 Note 94 G-43 Sect. 2.9.2.3a	N/A	
08H	N/A	47A050-1F R/8 Notes 25A & 95	N/A	
09H	N/A	None	1T01-0600200-06-04/ 01H	Not considered in Phase I Inspection
10H	N/A	47A050-1C R/6 Note 94 (Rod Length)	1T01-0600200-06-04/ 02H	HEX NUT QTY. was one each per latest revision (905) of DWG at time of Phase I Inspection. R/906 changed QTY. to 4
11H	N/A	G-43 Sect. 2.10.1.1	N/A	
12H	None	None	1T01-0600200-06-04/ 03H	
13H	N/A	G-43 2.10.1.2 47A050-1M R/5 Notes 16 and 25	N/A	*
14H	N/A	G-43 Sect. 2.8.1.3	N/A	*
15H	N/A	None	1T01-0600200-06-04/ 04H	
16H	N/A	G-43 Sect. 2.9.3.6	N/A	*
17H	N/A	47A050-1B R/6 Note 67	N/A	*
18H	N/A	47A050-1E R/11 Note 28 and 29	N/A	*

*(01X) hanger not documented at time of Phase I inspection.

Prepared by Robert C. McKay
 CONST/EN DES

September 1, 1983
 Date

Reviewed by J. D. Waldrop
 EN DES

September 1, 1983
 Date

Note: See first deviation evaluation form for notes.

03313).25

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

Revision 0
 Page 3 of 5

Package No.: 1T01-0600200-06-04 Inspection Drawing: 47W400-216 R/O
 (1) ~~See Package No.~~

(2) Deviation No.	(3) Phase I Discrepancy No.	(4) Acceptance Criteria	(5) Phase II Discrepancy No.	(6) Comments
19H	N/A	None	1T01-0600200-06-04/ 05H	(01X) hanger not documented at time of Phase I inspection.
20H	N/A	G-43 Sect. 2.8.1.3	N/A	
21H	N/A	47A050-1C R/6 Note 7	N/A	
22H	N/A	47A050-1M R/5 Note 50	N/A	
23H	N/A	None	1T01-0600200-06-04/ 06H	Not considered in Phase I inspection.
24H	None	None	1T01-0600200-06-04/ 07H	No W36 exists
25H	None	None	1T01-0600200-06-04/ 08H	EMBED is below 10 & 11. 10 & 11 are there to support grating above hanger.
26H	N/A	G-43 Sect. 2.8.1.3		
27H	N/A	None	1T01-0600-06-04/ 09H	Not part of Phase I inspection.
28H	N/A	N/A	N/A	*
29H	N/A	47A050-1M R/5 Note 25	N/A	
30H	N/A	47A050-1M R/5 Note 50	N/A	
31H	N/A	G-43 Sect. 2.8.1.1	N/A	
32H	N/A	47A050-1M R/5 Note 61	N/A	

*Per TVA and Teledyne reinspection, no deviation exists.

Prepared by Robert C. McKay
 CONST/EN DES

September 1, 1983
 Date

Reviewed by J. D. Waldrop
 EN DES

September 1, 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 5

Package No.: 1T01-0600200-06-04 Inspection Drawing: (1) 47W400-216 R/O
~~See Package No.~~

(2) Deviation No.	(3) Phase I Discrepancy No.	(4) Acceptance Criteria	(5) Phase II Discrepancy No.	(6) Comments
33H	N/A	47A050-1R R/3 Note 120	N/A	
34H	N/A	47A050-1Q R/3 Note 97 G-43 Sect. 2.8.1.3	N/A	Installed location matches analysis point
35H	N/A	G-43 Sect. 2.10.1.1 47A050-1M R/5 Notes 16 and 25	N/A	
36H	None	None	1T01-0600200-06-04/ 10H	upper left anchor only
37H	1R01-0600200-06-04/ 08H	N/A	N/A	
38H	None	None	1T01-0600200-06-04/ 11H	Number is correct size
39H	N/A	N/A	N/A	*
40H	None	None	1T01-0600200-06-04/ 12H	
41H	N/A	G-43 Sect. 2.8.1.2	N/A	
42H	N/A	N/A	N/A	*
43H	N/A	G-43 Sect. 2.8.1.1	N/A	
44H	1R01-0600200-06-04/ 05H	N/A	N/A	
45H	N/A	47A050-1E R/11 Note 47	N/A	
46H	1R01-0600200-06-04/ 05H	N/A	N/A	
47H	N/A	G-43 Sect. 2.8.1.1	N/A	
48H	N/A	47A050-1C R/6 Note 7	N/A	

*Per TVA and Teledyne reinspection no deviation exists.

Prepared by Robert C. McKay
 CONST/EN DES

September 1, 1983
 Date

Reviewed by J. D. Waldrop
 EN DES

September 1, 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 2

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

Support No.: N/A

Description of Discrepancy: Deviation No. 10C.: The interference is 1.0" in the +X_L, +Z_L, (45°) direction from pipe U-Bolts on SPRT. No 1-01A-424 to catwalk grating guard railing riser. Location: 2'-0" +Y_L and -Y_L from

Node pt 12
Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: The maximum movement at mode pt. 12 is 0.12" (+X_L) and 1.27" (+Z_L) at 45° skew $\Delta = (1.27^2 + 0.12^2)^{1/2} = 1.28"$. The catwalk grating is considered rigid hence 0" movement. Therefore, total = 1.28" $\approx 1-5/16"$

Continued 2 of 2.

Resolution: Clearance must be provided to accommodate the total pipe movement of 15/16" (thermal movement is 1 1/4").

 10/31/83
Preparer Date

 10-31-83
Checker Date

 10-31-83
Supervisor Date

 10/19/83
Concurren Date

 10/19/83
Reviewer Date

 10/19/83
Supervisor Date

Discrepancy No. 1T01-0600200-06-04/01C

Basis for judgement: (cont.) provided clearance. Clearance must be provided to resolve this discrepancy. This discrepancy is considered nonsignificant on the following basis:

The 5/16" additional movement would tend to crush the insulation on the pipe and not cause a significant affect on the stresses for the aforementioned problem.

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

Revision 0
Page 1 of 2

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

Support No.: N/A

Description of Discrepancy: Deviation No. 12C Contact in the +X₁ Dir. from
the +Z₁ side of spring Hgr. rod to 2" pipe* above spring can of SPRT. 1-01A-425,
the location is at mode pt. 15A, (*per fld engr: 1½" conduit, fixed at conc.wall).

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: The maximum movement at mode pt. 15A in the +X₁ Dir
= 0.16" = -Z₁. The 1½" conduit is considered rigid. The total Δ = 0.16 >
0" (direct contact), therefore clearance must be provided. This discrepancy

Resolution: Clearance must be provided to accommodate the total pipe
movement of 1/16" (thermal movement is 0").

John Davis
Preparer

10/31/83
Date

Chris P. Ketch
Checker

10-31-83
Date

P. J. [Signature]
Supervisor

10-31-83
Date

Robert L. Allich
Concurrer

10/19/83
Date

Philip H. [Signature]
Reviewer

10-19-83
Date

[Signature]
Supervisor

10/19/83
Date

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

Revision 0
 Page 2 of 4

Package No.: 1T01-006200-06-04 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	PD00-9
8C	N/A	N3C-912 Sect. 6.3.1	N/A	Movement shown on analysis ISO
9C	N/A	N3C-912 Sect. 6.3.1	N/A	Movement shown on analysis ISO
10C	N/A	N/A	1T01-0600200-06-04/01C	N/A
11C	N/A	N3C-912 Sect. 6.3.1	N/A	Movement shown on analysis ISO
12C	N/A	N/A	1T01-0600200-06-04/02C	N/A
13C	1R01-0600200-06-09/03P	N/A	N/A	N/A
14C	N/A	N3C-912 Sect. 6.3.1	N/A	Movement shown on analysis ISO
15C	N/A	N3C-912 Sect. 6.3.1	N/A	Movement shown on analysis ISO
16C	N/A	TVA DWG 47W400-1 TVA DWG 47W400-2	N/A	Pipe installed per TVA DWG
17C	N/A	N3C-912 Sect. 6.3.1	N/A	Movement shown on analysis ISO
18C	N/A	N3C-912 Sect. 6.3.1	N/A	Movement shown on analysis ISO
20C	N/A	N/A	1T01-0600200-06-04/03C	N/A
21C	N/A	N3C-912 Sect. 6.3.1	N/A	Movement shown on analysis ISO
22C	N/A	N3C-912 Sect. 6.3.1	N/A	Movement shown on analysis ISO
23C	N/A	N3C-912 Sect. 6.3.1	N/A	Movement shown on analysis ISO
24C	N/A	N3C-912 Sect. 6.3.1	N/A	Movement shown on analysis ISO
25C	N/A	N3C-912 Sect. 6.3.1	N/A	Movement shown on analysis ISO
26C	N/A	N3C-912 Sect. 6.3.1	N/A	Movement shown on analysis ISO

Prepared by Robert C. McKay
 CONST/EN DES

August 31, 1983
 Date

Reviewed by [Signature]
 EN DES

August 31, 1983
 Date

Note: See first deviation evaluation form for notes.

033131.25

Discrepancy No. IT01-0600200-06-04/02C

Basis for judgement: (cont) is considered nonsignificant on the following basis:

The contact between the spring hanger rod and the conduit would have a negligible
affect on the springs. The rods are utilized as a support mechanism only and does
not interact with the spring operation.