

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

Revision 0  
Page 1 of 2

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

Support No.: N/A

Description of Discrepancy: Deviation No: 2V

Valve operator orientation (installed) does not agree with analysis

isometric. Valve is installed in +YG direction. Operator is not shown on  
isometric.

Significant: No Nonsignificant: Yes

Definite potential for loss of pressure boundary: No

Basis for judgment: Problem #N3-72-1A has a node 6V4 coded 8-11/16" above  
N.P. 6V2 with a lumped mass of 198 lb. The valve is constructed as per  
physical drawing 47W437-2 and has been analyzed as such. The weight has

(continued on next page)

Resolution: Isometric drawing 47W437-201 will be revised to show valve  
CG @ N.P. 6V4 which will resolve this discrepancy. Computer analysis is  
correct.

D. L. Dan -  
Preparer

11/3/83  
Date

Chris R. Kest  
Checker

11-3-83  
Date

D. J. H. L.  
Supervisor

11-3-83  
Date

R. G. Aubert  
Concurre

11-4-83  
Date

E. R. Winters  
Reviewer

11-4-83  
Date

M. J. Harris  
B. H. H. H.  
Supervisor

11/7/83  
11/7/83  
Date

LEN DES-SEP 82-25

Revision 0

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Discrepancy No. 1T72-47W437-201/02V

Basis for judgement: (cont)

been modeled conservatively. This discrepancy is nonsignificant because it is

analysis documentation only. Center of gravity node point will be added to the isometric.



79-14 PHASE II  
DISCREPANCY EVALUATION FORM  
WATTS BAR NUCLEAR PLANT UNIT 1Revision 0  
Page 1 of 2Discrepancy No.: 1T72-47W437-201/03VSupport No.: N/ADescription of Discrepancy: Deviation No: 3VValve operator orientation (installed) does not agree with analysis  
isometric. Valve is installed in +YG direction.Significant: No Nonsignificant: YesDefinite potential for loss of pressure boundary: NoBasis 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]  
Preparer11/3/83  
Date[Signature]  
Checker 11-3-83  
Date[Signature]  
Supervisor 11-3-83  
Date[Signature]  
Concurren11-4-83  
Date[Signature]  
Reviewer 11-4-83  
Date[Signature]  
Supervisor 11/7/83  
Date

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Page 2 of 2

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.

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WATTS BAR NUCLEAR PLANT UNIT 1Revision 0  
Page 1 of 2Discrepancy No.: 1T72-47W437-201/04VSupport No.: N/ADescription of Discrepancy: Deviation No. 4VValve location is not specified on analysis isometric.Significant: No Nonsignificant: YesDefinite potential for loss of pressure boundary: NoBasis 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.  
Preparer11/3/83  
DateChris R. K.  
Checker 11.3.83  
DateD. M. D.  
Supervisor 11-3-83  
DateR. C. Anderson  
Concurrent11-4-83  
DateE. R. Winters  
Reviewer 11-4-83  
DateM. D. Davis  
Supervisor 11/7/83  
Date

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Revision 0

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

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



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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.

Older  
Preparer

11/3/83  
Date

Chris R. K...  
Checker

11.3.83  
Date

P. M. J. ...  
Supervisor

11-3-83  
Date

R. C. ...  
Concurre

11-4-83  
Date

E. R. ...  
Reviewer

11-4-83  
Date

M. D. ...  
Supervisor

11/7/83  
Date

EN DES-SEP 82-25

Revision 0  
Page 2 of 2

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

Basis for judgement: (cont) is nonsignificant because stresses are low in this  
region and this change will have an insignificant effect on the analysis.

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WATTS BAR NUCLEAR PLANT UNIT 1

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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  $\frac{1}{2}$ "  
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.L. Ashcraft  
Checker

11-4-83  
Date

M.D. Davis  
Supervisor

11/7/83  
Date

Ali  
Concurren

11-8-83  
Date

[Signature]  
Reviewer

11/8/83  
Date

[Signature]  
Supervisor

11/8/83  
Date

013305.10

79-14 PHASE II  
DISCREPANCY EVALUATION FORM  
WATTS BAR NUCLEAR PLANT UNIT 1Revision 0  
Page 1 of 1Discrepancy No.: 1T72-47W437-201/03HSupport No.: 72-1CS-R40Description of Discrepancy: Bottom base plate extends 2 1/2" onto the embedded plate, not shown in the section view of support. DEVIATION No. 12H.Significant: No Nonsignificant: YesDefinite potential for loss of pressure boundary: NoBasis 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 DateR. P. Anket 11-8-83  
Checker DateM. D. Davis/s 11/8/83  
Supervisor DateAli 11/8/83  
Concurren DateDebb 11/8/83  
Reviewer DateD. M. Z. L. 11/8/83  
Supervisor Date



79-14 PHASE II  
DISCREPANCY EVALUATION FORM  
WATTS BAR NUCLEAR PLANT UNIT 1Revision 0  
Page 1 of 1Discrepancy No.: 1T72-47W437-201/03HSupport No.: 72-1CS-R40Description of Discrepancy: Bottom base plate extends 2 1/2" onto the embedded plate, not shown in the section view of support. DEVIATION No. 12H.Significant: No Nonsignificant: YesDefinite potential for loss of pressure boundary: NoBasis 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  
Preparer11-8-83  
DateR. P. Rickett  
Checker11-8-83  
DateM. D. Davis/s  
Supervisor11/8/83  
DateAli  
Concurren11/8/83  
DatePhilo  
Reviewer11/8/83  
DateD. M. Z. /s/  
Supervisor11/8/83  
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: <sup>(1)</sup> 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 Shaffer  
EN DES

August 31, 1983  
Date

033131.25

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

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Package No.: 1T68-47W465-206

Inspection Drawing: <sup>(1)</sup> 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

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August 31, 1983  
Date

Reviewed by SK Shy  
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  
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Package No.: 1T68-47W465-206 Inspection Drawing: <sup>(1)</sup> 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 / *Dan Chase*  
CONST/EN DES

August 31, 1983  
Date

Reviewed by *SK Shaffer*  
EN DES

August 31, 1983  
Date

Note: See first deviation evaluation form for notes.

033131.25



**033131.25**

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

Revision 0  
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Package No.: 1T68-47W465-206 R/1 Inspection Drawing: <sup>(1)</sup> 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.
- (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

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: <sup>(1)</sup> 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/1-7H	None	None	1T68-47W465-206/02H	
-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	

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September 1, 1983  
Date

Reviewed by *J. D. Waldrop*  
EN DES

September 1, 1983  
Date

Note: See first deviation evaluation form for notes.

039131.25



EN DES-SEP 82-25

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: <sup>(1)</sup> 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  
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



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Reviewed by J. D. Waldrop  
EN DES

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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  
Preparer

9.26.83  
Date

Chris R. Kus  
Checker

11.3.83  
Date

H. J. V. H.  
Supervisor

11-3-83  
Date

D. W. Pory  
Concurrence  
07 Nov 83  
Date

E. Bellingham  
Reviewer

11-7-83  
Date

M. D. Davis  
Supervisor

11-8-83  
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. K...  
Checker

11.3.83  
Date

[Signature]  
Supervisor

11-2-83  
Date

A.W. Posny  
Concurre

07 NOV 83  
Date

E.L. B...  
Reviewer

11-7-83  
Date

M. A. Davis  
Supervisor

11-8-83  
Date



EN DES-SEP 82-25

Revision 0

Page 2 of 2

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

asis 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 1/4" in the +Y direction from uninsulated pipe to flex. hose off

valve 1-PCV-68-340Q 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

Chris R. Kest  
Checker

11.2.83  
Date

J. M. White  
Supervisor

11-3-83  
Date

W. W. Poney  
Concurreter

07 Nov 83  
Date

E. C. Bellingham  
Reviewer

11-7-83  
Date

M. D. Davis  
Supervisor

11-8-83  
Date

EN DES-SEP 82-25

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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 CC7 and C08 "FL

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. Voss  
Checker

11.3.83  
Date

P. M. [Signature]  
Supervisor

11-3-83  
Date

D.W. Posny  
Concurre

09/26/83  
Date

E.C. Bellingham  
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. 1T68-47W465-206/04P

Basis for judgement: (cont)

the support loads.

79-14 PHASE II  
DISCREPANCY EVALUATION FORM  
WATTS BAR NUCLEAR PLANT UNIT 1Revision 0  
Page 1 of 2Discrepancy No.: 1T68-47W465-206/05CSupport No.: N/ADescription of Discrepancy: Deviation No: 17CInterference 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: YesDefinite potential for loss of pressure boundary: NoBasis for judgment: This is nonsignificant because pipe movements are shown on the isometric and would have been properly considered when the insulation wasinstalled. 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  
Preparer9.26.83  
DateChris R. K...  
Checker11.3.83  
DateP. M. V. L.  
Supervisor11-3-83  
DateD. W. P...  
Concurre09 Nov 83  
DateE. L. R...  
Reviewer11-7-83  
DateM. D. Davis  
Supervisor11-8-83  
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 1Revision 0  
Page 1 of 2Discrepancy No.: 1T68-47W465-206/06CSupport No.: N/ADescription of Discrepancy: Deviation No: 24CInterference is 0" in the +X dir. from insulated pipe to conduit (reinspectionby 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: YesDefinite potential for loss of pressure boundary: NoBasis 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  
Preparer9.26.83  
DateChris R. Kistner  
Checker11.3.83  
DateB. J. [Signature]  
Supervisor11-3-83  
DateD. W. [Signature]  
Concurre07 Nov 83  
DateE. L. [Signature]  
Reviewer11-7-83  
DateM. D. Davis  
Supervisor11-8-83  
Date



EN DES-SEP 82-25

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Page 2 of 2

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 1Revision 0  
Page 1 of 2Discrepancy No.: 1T68-47W465-206/07CSupport No.: N/ADescription 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: YesDefinite 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  
Preparer9.26.83  
DateChris R. Voss  
Checker11-3-83  
DateE. J. H. H.  
Supervisor11-3-83  
DateJ. W. Perry  
Concurren09/26/83  
DateE. L. B. B.  
Reviewer11-7-83  
DateM. L. Davis  
Supervisor11-8-83  
Date

EN DES-SEP 82-25

Revision 0

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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  
Preparer

9.26.83  
Date

Chris R. Kuhn  
Checker

11.3.83  
Date

D. M. Kuhn  
Supervisor

11-7-83  
Date

D. W. Poring - 07 Nov 83  
Concurren Date

E. L. Bickler  
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. 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

$\frac{3}{8}$ " must be provided to accommodate total pipe movement.

79-74 PHASE II  
DISCREPANCY EVALUATION FORM  
WATTS BAR NUCLEAR PLANT UNIT 1Revision 0  
Page 1 of 2Discrepancy No.: 1T68-47W465-206/09CSupport No.: N/ADescription of Discrepancy: Deviation No: 38CInterference is 1½" in the -Y direction from uninsulated pipe to conduit.Location: from node 93 to 98 (2½" of mirror insulation had not been installed)Significant: No Nonsignificant: YesDefinite 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 = ¼").

Ali  
Preparer9-26-83  
DateChris R. Kuhl  
Checker11-3-83  
DateE. J. [Signature]  
Supervisor11-3-83  
DateE. L. Belligian  
Reviewer11-7-83  
DateM. J. Harris  
Supervisor11-8-83  
DateW. W. Perry  
Concurren07 NOV 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".



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

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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

Chas. R. Kesh  
Checker

11-3-83  
Date

P. J. H. H.  
Supervisor

11-3-83  
Date

D. W. P. R. R.  
Concurren

07/01/83  
Date

E. C. Bell  
Reviewer

11-7-83  
Date

M. D. Davis  
Supervisor

11-8-83  
Date

033131.25

Discrepancy No. 1T68-47W465-206/10CBasis for judgement: (cont)

movement in -Z dir =  $1.222 = 1\frac{1}{4}$ ". The interfering object is a wall which is a rigid

structure; hence it will not move. A clearance of  $1\frac{1}{4}$ " must be provided. Seismic

interference is  $1/16$ ".

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

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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 (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 pipe movement @ node 96 in -Z = 1.2036 = 1 1/4".  
(Continued on next page)

Resolution: Clearance must be provided to accommodate the total pipe  
movement of 1 1/4" (thermal movement = 1-3/16").

Ali  
Preparer

9-26-83  
Date

Chas. R. Kest  
Checker

11-3-83  
Date

E. J. Z. L.  
Supervisor

11-3-82  
Date

W. W. Poney  
Concurreter

10-24-83  
Date

E. L. Bellamy  
Reviewer

11-7-83  
Date

M. O. Davis  
Supervisor

11-8-83  
Date

EN DES-SEP 82-25

Revision 0

Page 2 of 2

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

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 1Revision 0  
Page 1 of 2Discrepancy No.: 1T68-47W465-206/12CSupport No.: N/ADescription of Discrepancy: Deviation No: 42C

Interference is 1½" in the +Z direction from uninsulated valve to uninsulated pipe @ node 78 Location: at node 96 (2½" of insulation had not been installed)

Significant: No Nonsignificant: YesDefinite 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  
Preparer9-26-82  
DateChris R. Keck  
Checker11-3-83  
Date[Signature]  
Supervisor11-2-83  
DateD. W. Baum  
Concurren01/Nov/83  
Date[Signature]  
Reviewer11-7-83  
Date[Signature]  
Supervisor11-8-83  
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 previously 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. Kish  
Checker

11-3-83  
Date

Don. W. H.  
Supervisor

11-3-83  
Date

W. W. Perry  
Concurren

07 Nov 83  
Date

E. L. Bellingham  
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. 1T68-47W465-206/01H

Basis for judgement: (cont.)

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

must be corrected on isometric.



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DISCREPANCY EVALUATION FORM  
WATTS BAR NUCLEAR PLANT UNIT 1Revision 0  
Page 1 of 1Discrepancy No.: 1T68-47W465-206/02HSupport No.: 1-68-040Description of Discrepancy: Deviation No. 7HBill of Material item 4 does not fit configuration shown on face of drawing.Significant: No Nonsignificant: YesDefinite potential for loss of pressure boundary: NoBasis for judgment: Field installed correct configuration.Resolution: Revise 1-68-040 Bill of MaterialD.W. Posny  
Prepared4 Nov 83  
DateE.C. Bellingham  
Checked  
M. J. Davis  
W. J. Hester  
Supervisor11/4/83  
Date  
11/7/83  
Date  
11/7/83  
DateAli  
Concurred11-8-83  
DatePhil R.  
Reviewer11/8/83  
DateJ. M. Hill  
Supervisor11/14/83  
Date

79-14 PHASE II  
DISCREPANCY EVALUATION FORM  
WATTS BAR NUCLEAR PLANT UNIT 1Revision 0  
Page 1 of 1Discrepancy No.: 1T68-47W465-206/3HSupport No.: 1-68-050Description of Discrepancy: Deviation No. 22HPin to pin of snubber at cold position 14" not 12" as per drawingSignificant: No Nonsignificant: YesDefinite potential for loss of pressure boundary: NoBasis for judgment: Catalog shows snubber rangePin to pin is 14-3/8". Maximum  $\Delta T$  = 1/4", maximum dimension = 14 1/2". Hot functionaltest W1.7 shows snubber is adequateResolution: Use as is. Drawing 1-68-050 will be revised to show new pin-to-pin  
dim.A. W. Porany  
Preparer4 Nov 83  
DateE. C. Bellingham  
Checker11/4/83  
DateM. P. Davis  
Arthur L. Shuck  
Supervisor11/7/83  
11/7/83  
DateAli  
Concurreter1-8-83  
DateD. M. [Signature]  
Reviewer11/8/83  
Date[Signature]  
Supervisor11/8/83  
Date

EN DES-SEP 82-25

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

Revision 0  
Page 1 of 2

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

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 1/2" 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. Pomy  
Preparer

9 Nov 83  
Date

E. C. Bellington  
Checker

11/4/83  
Date

M. O. Davis  
B. Straker  
Supervisor

11/7/83  
11/14/83  
Date

Ali  
Concurreter

11-8-83  
Date

D. L. Brown  
Reviewer

11/8/83  
Date

D. L. Brown  
Supervisor

11/16/83  
Date

033131.25

EN DES-SEP 82-25

Revision 2

Page 2 of 2

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

Basis for judgement: (cont)

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



EN DES-SEP 82-25

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  
Preparer

9-26-83  
Date

[Signature]  
Checker

11/8/83  
Date

[Signature]  
Supervisor

11/8/83  
Date

DW Posing  
Concurre

08 NOV 83  
Date

[Signature]  
Reviewer

11/8/83  
Date

[Signature]  
Supervisor

11/8/83  
Date

033131.25

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: <sup>(1)</sup> 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 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 3 of 4

Package No.: 1T01-0600200-06-04 Inspection Drawing: <sup>(1)</sup> 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
3C	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  
CONST/EN DES

August 31, 1983  
Date

Reviewed by SK Shady  
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 1 of 5

Package No.: 1T01-0600207-06-04 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 / *[Signature]*  
CONST/EN DES

September 1, 1983  
Date

Reviewed by *[Signature]*  
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	N/A	
		G-43 Sect. 2.9.2.3a		
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. 2.8.3.5	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	*

\*(03X) hanger not documented at time of Phase I inspection.

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  
DEVIATION EVALUATION FORM  
WATTS BAR NUCLEAR PLANT UNIT 1

Revision 0  
Page 3 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
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/0  
~~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	
		47A050-1Q R/3 Note 97		
34H	N/A	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	Snubber 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

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EN DES

September 1, 1983  
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Note: See first deviation evaluation form for notes.

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