



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

Docket No. 50-346

License No. NPF-3

Serial No. 715

June 10, 1981



Director of Nuclear Reactor Regulation
Attention: Mr. John F. Stolz
Operating Reactor Branch No. 4
Division of Operating Reactors
United States Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Stolz:

Your staff met with Toledo Edison on November 20, 1980 to discuss the Davis-Besse Inservice Inspection Program. The information attached to this letter provides supporting information used to clarify several issues discussed at that meeting.

Very truly yours,

[Handwritten signature]
RFC:GAB:lab

Enclosure

cc: DB-1 NRC Resident Inspector

A047
s
//
Aperture Dist.
SEND DRAWINGS to:
BC

Q 8106160460

Docket No. 50-346
License No. NPF-3
Serial No. 715

ISI DRAWINGS

ISI	-	233A
ISI	-	233B
ISI	-	233F
ISI	-	234A
ISI	-	234B
ISI	-	234C
ISI	-	234D

dh c/4

Docket No. 50-346
 License No. NPF-3
 Serial No. 715

ITEM NUMBER	SHEET NUMBER	ISOMETRIC NUMBER	TYPE OF WELDS	NUMBER OF WELDS
ST-0	III-15	233A	Pipe to Branch ($\geq 4"$)	3
			Pipe to Branch ($< 4"$)	1
			Elbow to Pipe	2
			Elbow to Valve	1
			Valve to Pipe	1
			Nozzle to Elbow	1
			Pipe to Cap	<u>1</u>
			Total Welds $\geq 4"$	9
ST-1	III-15	233A, 233B	Pipe to Pipe	10
			Pipe to Branch ($\geq 4"$)	2
			Elbow to Pipe	12
			Elbow to Elbow	1
			Valve to Reducer	1
			Valve to Pipe	11
			Branch to Valve	1
			Reducer to Tee	<u>1</u>
Total Welds $\geq 4"$	39			
ST-2	III-15	233A, 233B	Pipe to Pipe	7
			Pipe to Branch ($\geq 4"$)	3
			Elbow to Pipe	8
			Elbow to Valve	1
			Elbow to Elbow	1
			Elbow to Reducer	1
			Valve to Pipe	2
			Reducer to Pipe	1
Branch to Valve	<u>1</u>			
Total Welds $\geq 4"$	25			

Docket No. 50-346
 License No. NPF-3
 Serial No. 715

ITEM NUMBER	SHEET NUMBER	ISOMETRIC NUMBER	TYPE OF WELDS	NUMBER OF WELDS
ST-3	III-17	233B	Branch to Pipe	1
			Valve to Pipe	<u>1</u>
			Total Welds \geq 4"	2
ST-4	III-17	233B	Pipe to Pipe	1
			Pipe to Branch (< 4")	3
			Elbow to Pipe	2
			Elbow to Valve	3
			Elbow to Flange	1
			Valve to Pipe	1
			Tee to Pipe	2
			Flange to Pipe	3
			Elbow to Pump	<u>1</u>
			Total Welds \geq 4"	14
ST-5	III-17	233B	Branch to Pipe	1
			Elbow to Pipe	1
			Elbow to Valve	<u>1</u>
			Total Welds \geq 4"	3
ST-6	III-17	233B	Pipe to Branch (< 4")	4
			Elbow to Pipe	7
			Elbow to Valve	1
			Elbow to Flange	1
			Elbow to Elbow	2
			Valve to Pipe	2
			Tee to Pipe	2
			Flange to Pipe	3
			Elbow to Pump	<u>1</u>
			Total Welds \geq 4"	19

Docket No. 50-346
 License No. NPF-3
 Serial No. 715

ITEM NUMBER	SHEET NUMBER	ISOMETRIC NUMBER	TYPE OF WELDS	NUMBER OF WELDS
25-0	III-13	234D	Elbow to Flange	1
			Elbow to Reducer	<u>1</u>
			Total Welds $\geq 4"$	2
25-1	III-13	234D	Pipe to Pipe	1
			Pipe to Branch ($< 4"$)	5
			Elbow to Pipe	18
			Elbow to Valve	2
			Branch to Plug	1
			Valve to Pipe	3
			Tee to Pipe	2
			Reducer to Pipe	1
			Flange to Pipe	2
			Valve to Valve	<u>1</u>
			Total Welds $\geq 4"$	31
25-2	III-13	234D, 234B	Pipe to Pipe	13
			Pipe to Branch ($< 4"$)	3
			Elbow to Pipe	25
			Elbow to Flange	1
			Elbow to Elbow	1
			Branch to Plug	1
			Valve to Pipe	1
			Flange to Pipe	1
			Pipe to Head	<u>2</u>
Total Welds $\geq 4"$	45			

Docket No. 50-346
 License No. NPF-3
 Serial No. 715

ITEM NUMBER	SHEET NUMBER	ISOMETRIC NUMBER	TYPE OF WELDS	NUMBER OF WELDS
25-3	III-13	234B	Pipe to Pipe	2
			Pipe to Branch (< 4")	46
			Elbow to Pipe	1
			Elbow to Tee	1
			Elbow to Elbow	1
			Flange to Pipe	5
			Pipe to Cap	1
			Branch to Flange	1
			Cap to Branch	<u>1</u>
			Total Welds \geq 4"	13
25-4	III-13	234B	Pipe to Pipe	3
			Pipe to Branch (< 4")	45
			Elbow to Pipe	1
			Elbow to Tee	1
			Elbow to Elbow	1
			Flange to Pipe	4
			Pipe to Cap	1
			Branch to Flange	1
			Cap to Branch	<u>1</u>
			Total Welds \geq 4"	13
25-1A	III-13	234D	Elbow to Pipe	2
			Valve to Pipe	3
			Tee to Valve	1
			Valve to Valve	<u>1</u>
			Total Welds \geq 4"	7

Docket No. 50-346
 License No. NPF-3
 Serial No. 715

ITEM NUMBER	SHEET NUMBER	ISOMETRIC NUMBER	TYPE OF WELDS	NUMBER OF WELDS
26-0	III-13	234C	Reducer to Flange	<u>1</u>
			Total Welds \geq 4"	1
26-1	III-13	234C	Pipe to Pipe	8
			Pipe to Branch (< 4")	6
			Elbow to Pipe	28
			Elbow to Valve	2
			Elbow to Tee	1
			Elbow to Elbow	2
			Elbow to Reducer	1
			Valve to Pipe	3
			Tee to Pipe	1
			Flange to Pipe	2
			Valve to Valve	<u>1</u>
			Total Welds \geq 4"	49
26-2	III-13	234C, 234D	Pipe to Pipe	10
			Pipe to Branch (< 4")	2
			Elbow to Pipe	10
			Elbow to Flange	1
			Elbow to Tee	1
			Valve to Pipe	1
			Flange to Pipe	1
			Pipe to Head	<u>2</u>
Total Welds \geq 4"	26			
26-3	III-13	234B	Pipe to Pipe	4
			Pipe to Branch (< 4")	46
			Branch to Pipe	1
			Elbow to Pipe	3
			Elbow to Tee	1
			Flange to Pipe	8
			Pipe to Cap	<u>1</u>
Total Welds \geq 4"	18			

Docket No. 50-346
 License No. NPF-3
 Serial No. 715

ITEM NUMBER	SHEET NUMBER	ISOMETRIC NUMBER	TYPE OF WELDS	NUMBER OF WELDS
26-4	III-13	234B	Pipe to Pipe	4
			Pipe to Branch (< 4")	46
			Branch to Pipe	1
			Elbow to Pipe	3
			Elbow to Tee	1
			Flange to Pipe	8
			Pipe to Cap	<u>1</u>
			Total Welds $\geq 4"$	18
26-1A	III-13	234C	Valve to Pipe	1
			Tee to Valve	1
			Valve to Valve	<u>2</u>
			Total Welds $\geq 4"$	4
27-0	III-15	233F	Pipe to Branch (< 4")	3
			Elbow to Pipe	21
			Elbow to Valve	1
			Valve to Pipe	1
			Tee to Pipe	2
			Flange to Pipe	2
			Valve to Valve	<u>1</u>
			Total Welds $\geq 4"$	28
27-1	III-15	233F	Pipe to Pipe	1
			Pipe to Branch ($\geq 4"$)	1
			Pipe to Branch (< 4")	7
			Elbow to Pipe	18
			Elbow to Valve	1
			Elbow to Tee	2
			Elbow to Reducer	1
			Valve to Pipe	1
			Tee to Pipe	3
			Flange to Pipe	<u>2</u>
			Total Welds $\geq 4"$	30

Docket No. 50-346
 License No. NPF-3
 Serial No. 715

ITEM NUMBER	SHEET NUMBER	ISOMETRIC NUMBER	TYPE OF WELDS	NUMBER OF WELDS
27-5	III-14	234A	Pipe to Branch (< 4")	1
			Elbow to Pipe	7
			Component to Elbow	<u>1</u>
			Total Welds \geq 4"	8
27-6	III-14	234A	Pipe to Branch (< 4")	1
			Elbow to Pipe	2
			Valve to Pipe	<u>3</u>
			Total Welds \geq 4"	5
28-5	III-14	234A	Component to Elbow	<u>1</u>
			Total Welds \geq 4"	1
28-6	III-14	234A	Pipe to Pipe	1
			Pipe to Branch (< 4")	2
			Elbow to Pipe	4
			Elbow to Valve	2
			Valve to Pipe	<u>1</u>
			Total Welds \geq 4"	8

Docket No. 50-346
 License No. NPF-3
 Serial No. 715

ITEM NUMBER	SHEET NUMBER	ISOMETRIC NUMBER	TYPE OF WELDS	NUMBER OF WELDS
27-0A	III-15	233F	Elbow to Pipe	1
			Elbow to Valve	1
			Valve to Pipe	1
			Tee to Pipe	1
			Reducer to Pipe	<u>1</u>
			Total Welds $\geq 4"$	5
			28-0	III-16
Elbow to Pipe	18			
Elbow to Valve	1			
Elbow to Tee	1			
Elbow to Elbow	2			
Valve to Pipe	1			
Flange to Pipe	2			
Valve to Valve	<u>1</u>			
Total Welds $\geq 4"$	26			
28-1	III-16	233F	Pipe to Pipe	3
			Pipe to Branch ($\geq 4"$)	1
			Pipe to Branch ($< 4"$)	9
			Elbow to Pipe	28
			Elbow to Valve	1
			Elbow to Flange	1
			Elbow to Tee	1
			Elbow to Elbow	5
			Branch to Plug	1
			Valve to Pipe	2
			Tee to Pipe	5
			Flange to Pipe	<u>1</u>
			Total Welds $\geq 4"$	49

Docket No. 50-346
 License No. NPF-3
 Serial No. 715

ITEM NUMBER	SHEET NUMBER	ISOMETRIC NUMBER	TYPE OF WELDS	NUMBER OF WELDS
30-3	III-15	233B	Valve to Reducer	1
			Reducer to Tee	<u>1</u>
			Total Welds $\geq 4"$	2
30-4	III-13	233B	Pipe to Branch ($< 4"$)	1
			Elbow to Pipe	8
			Elbow to Valve	1
			Branch to Elbow	1
			Valve to Reducer	<u>1</u>
			Total Welds $\geq 4"$	11
30-5	III-13	233B	Pipe to Branch ($< 4"$)	1
			Elbow to Flange	2
			Reducer to Flange	1
			Flange to Pipe	<u>2</u>
			Total Welds $\geq 4"$	5
30-6	III-15	233B	Pipe to Branch ($\geq 4"$)	1
			Elbow to Pipe	3
			Elbow to Valve	1
			Tee to Pipe	<u>1</u>
			Total Welds $\geq 4"$	6
30-7	III-15	233B	Pipe to Branch ($\geq 4"$)	1
			Valve to Pipe	1
			Reducer to Pipe	<u>1</u>
			Total Welds $\geq 4"$	3

ITEM NUMBER	SHEET NUMBER	ISOMETRIC NUMBER	TYPE OF WELDS	NUMBER OF WELDS
30-8	III-15	233B	Pipe to Branch (< 4")	4
			Elbow to Pipe	7
			Elbow to Reducer	1
			Branch to Elbow	1
			Flange to Pipe	<u>3</u>
			Total Welds $\geq 4"$	12
31-3	III-16	233B	Pipe to Branch ($\geq 4"$)	1
			Elbow to Reducer	1
			Tee to Pipe	1
			Reducer to Pipe	<u>1</u>
			Total Welds $\geq 4"$	4
31-4	III-13	233B	Branch to Pipe	1
			Elbow to Pipe	2
			Elbow to Valve	1
			Elbow to Elbow	1
			Elbow to Reducer	1
			Valve to Pipe	<u>1</u>
			Total Welds $\geq 4"$	7
31-5	III-13	233B	Pipe to Branch (< 4")	2
			Elbow to Pipe	1
			Elbow to Flange	1
			Reducer to Pipe	1
			Flange to Pipe	<u>2</u>
			Total Welds $\geq 4"$	5

Docket No. 50-346
 License No. NPF-3
 Serial No. 715

ITEM NUMBER	SHEET NUMBER	ISOMETRIC NUMBER	TYPE OF WELDS	NUMBER OF WELDS
31-6	III-16	233B	Pipe to Pipe	1
			Valve to Pipe	<u>1</u>
			Total Welds $\geq 4"$	2
31-7	III-16	233B	Pipe to Branch ($\geq 4"$)	1
			Pipe to Branch ($< 4"$)	1
			Elbow to Pipe	1
			Elbow to Reducer	1
			Valve to Pipe	<u>1</u>
			Total Welds $\geq 4"$	4
31-8	III-16	233B	Pipe to Branch ($< 4"$)	4
			Elbow to Pipe	4
			Elbow to Elbow	1
			Branch to Plug	1
			Reducer to Flange	1
			Flange to Pipe	4
			Plug to Cap	<u>1</u>
			Total Welds $\geq 4"$	12