

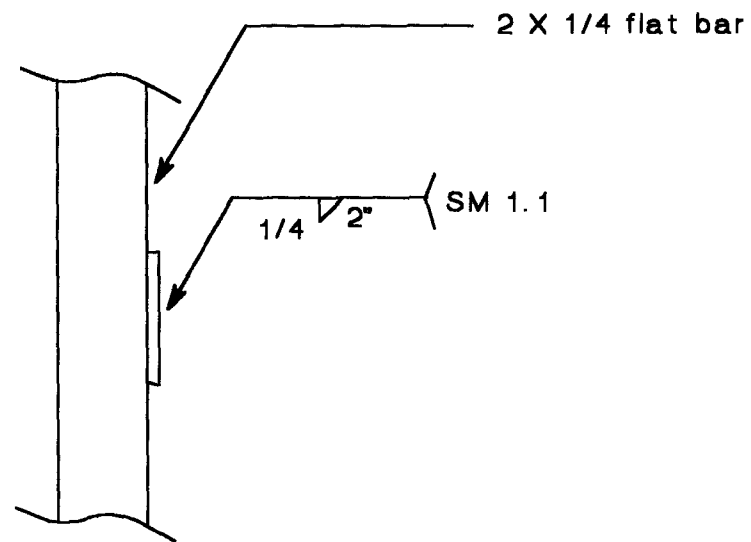
Section 9

RECOMMENDED REPAIRS

TAN	Repair #	TYPE	Actual Repair	Coated Areas Square Inches	Plate size Inches	Weld Lgth Inches	Location	Quadrant	Course	Plate	Comments
	1		10	20		2	Upper Dome	D	B	19	
	2		10	20		2	Upper Dome	D	B	22	
	3		10	20		3	Upper Dome	D	A	22	
	4		10	20		3	Upper Dome	D	A	22	
	5		10	20		2	Upper Dome	D	A	22	
	6		10	20		2	Upper Dome	D	A	22	
	7		10	20		4	Upper Dome	D	EXT	22	
	8		10	30		4	Upper Dome	D	EXT	22	
	9		5	20	5 X 5	20	Upper Dome	D	7	22	
	10		10	20		2	Cylinder	D	28	22	
	11		10	30		4	Cylinder	C	A	17	
	12		10	20		2	Upper Dome	D	A	22	
	13		10	20		2	Upper Dome	D	A	22	
	14		10	20		2	Upper Dome	D	A	21	
	15		2	40			Upper Dome	D	A	21	
	16		10	20		2	Upper Dome	D	A	21	
	17		10	30		6	Upper Dome	D	A	19	
	18		10	20		2	Upper Dome	D	A	19	
	19		10	20		2	Upper Dome	C	EXT	18	
	20		10	20		2	Upper Dome	C	A	18	
	21		9	20		2	Upper Dome	C	A	16	
	22		10	20		2	Upper Dome	C	EXT	18	
	23		10	20		2	Cylinder	D	6	21	
	24		9	20		2	Cylinder	D	10	12	
	25		9	20		2	Cylinder	D	13	21	
	26		9	20		2	Cylinder	D	13	21	
	27		9	20		2	Cylinder	D	13	21	
	28		10	20		1	Cylinder	D	16	21	
	29		10	30		3	Cylinder	C	14	22	
	30		9	20		1	Cylinder	C	25	15	
	31		10	130			Cylinder	C	24	15	
	32		10	100		3	Cylinder	C	28	18	
	33		10	40		36	Lower Dome	D	3	21	
	34		8	50			Lower Dome	C	3	17	
	35		8	100			Lower Dome	C	3	16	
	36		8	140			Lower Dome	C	2	18	
	37		8	130			Lower Dome	C	2	15	
	38		8	200			Lower Dome	D	2	21	
	39		8	20		2	Upper Dome	A	B	3	
	40		10	20		2	Upper Dome	A	B	9	

TAN	7									page 2
Repair #	TYPE	Actual Repair	Coated Areas Square Inches	Plate size Inches	Weld Lgth Inches	Location	Quadrant	Course	Plate	Comments
41		10	40		10	Upper Dome	A	A	2	
42		10	20		2	Upper Dome	A	A	3	
43		10	20		2	Upper Dome	A	A	3	
44		10	40		20	Upper Dome	A	A	3	
45		10	20		3	Upper Dome	A	A	4	
46		10	20		2	Upper Dome	B	A	10	
47		10	40		16	Upper Dome	B	A	11	
48		10	20		2	Cylinder	B	8	11	
49		9	20		2	Cylinder	B	15	9	
50		10	80		20	Cylinder	B	28	11	
51		10	30		30	Cylinder	B	28	8	
52		10	30		16	Cylinder	B	28	7	
53		10	30		25	Cylinder	B	28	6	
54		10	20		6	Cylinder	B	28	5	
55		10	30		24	Cylinder	B	28	4	
56		2	30		30	Cylinder	B	28	2	
57		10	70			Lower Dome	B	3	11	
58		8	50			Lower Dome	B	3	11	
59		8	180			Lower Dome	A	3	3	
60		8	20		4	Cylinder	A	17	1	
62		10	900			Lower Dome	A	3	1	
63		8	50			Lower Dome	B	2	7	
64		8	70			Lower Dome	A	2	1	
65		8	100			Lower Dome	A	1	1	
66		8	50			Lower Dome	B	1	9	

INSPECTED 3/27/98 BY JF & TK



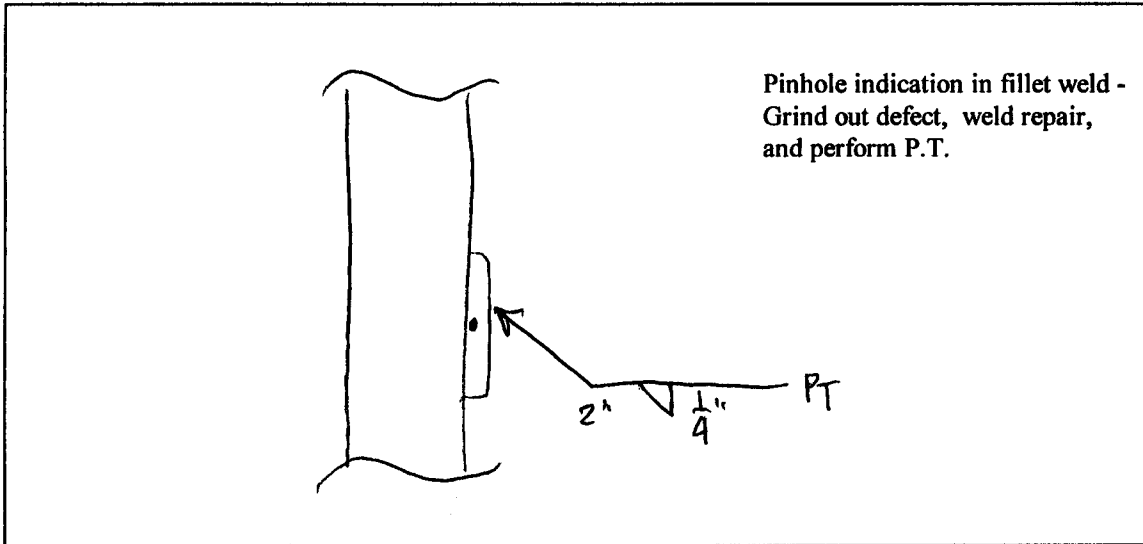
TYPE 10 REPAIR

MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #7 RECOMMENDED REPAIR DRAWINGS	
Repair No.: 001	File: 7r001
Upper Dome	Quadrant: D
Course: B	Plate: 19
Drawn by: Tom Kitchen	Date: 5/4/98

Dames & Moore
Emergency Repairs For Red Hill Tanks at the Fleet Industrial & Supply Center
Contract No. N62742-96-C-1356

Repair Record

Tank No.: 7 Repair No.: 002 Type: 10 Location: D 22 - B



Sketch of Repair Area

Weld Repair

WPS No.: SM1.1-1

Welder ID: John Walsh

NDT Performed: Visual Vacuum Box Dye Penetrant

Rework Required: N/A

Repair Acceptable: John Zschell Date Accepted: 4-2-98

Coating Repair

Coating Type: Epoxy

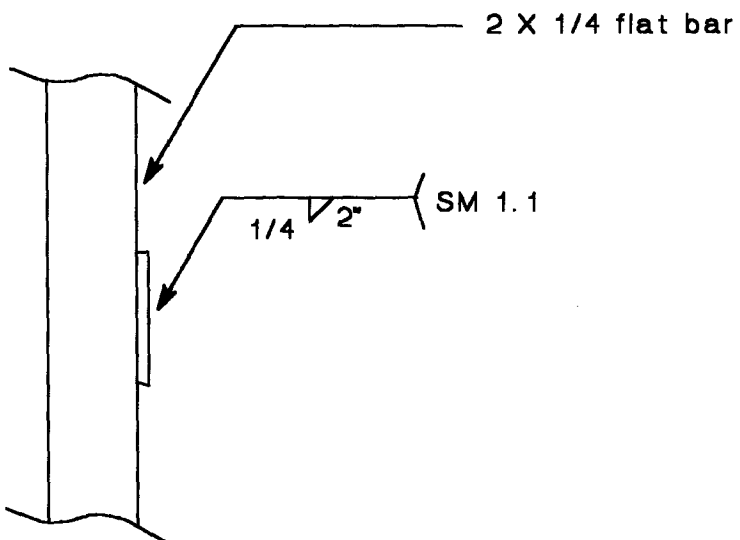
Surface Preparation: Primer Coat: Intermediate Coat: Final Coat:

NDT Performed: Visual: DFT: Average DFT: 8-15 mils

Rework Required: N/A

Repair Acceptable: John Zschell Date Accepted: 4-3-98

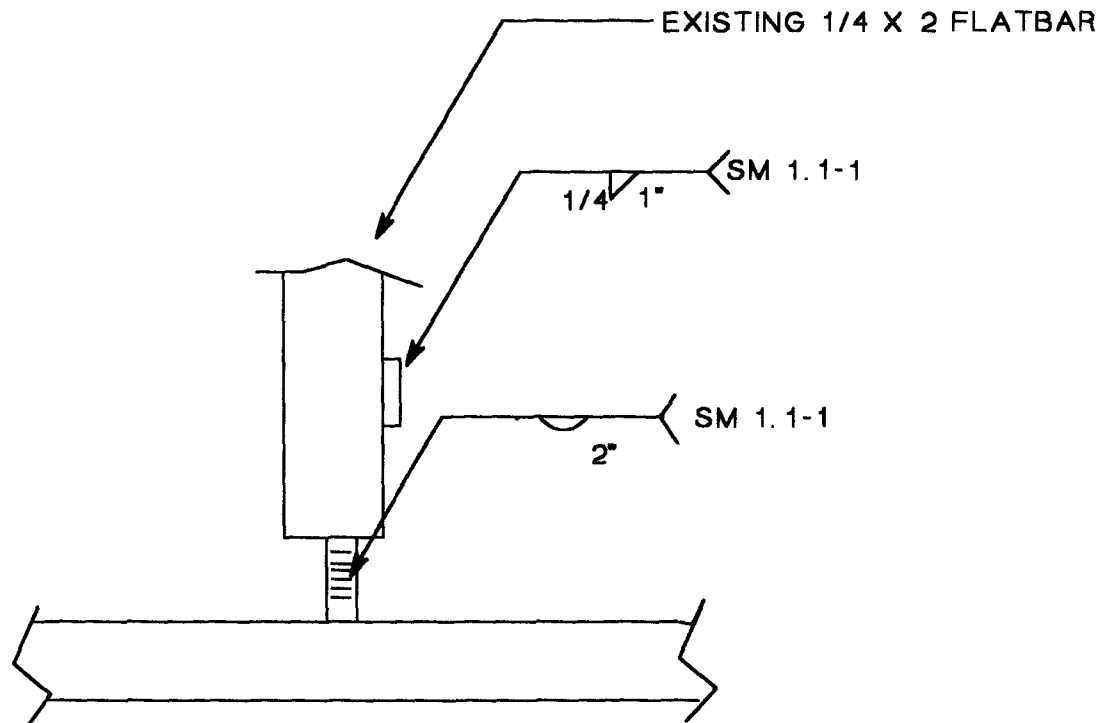
INSPECTED 3/27/98 BY JF & TK



TYPE 10 REPAIR

MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #7 AS BUILT DRAWINGS	
Repair No.: 002	File: 7r002
Upper Dome	Quadrant: D
Course: B	Plate: 22
Drawn by: Tom Kitchen	Date: 5/4/98

DEFECT INSPECTED 3/27/98 BY JF & TK

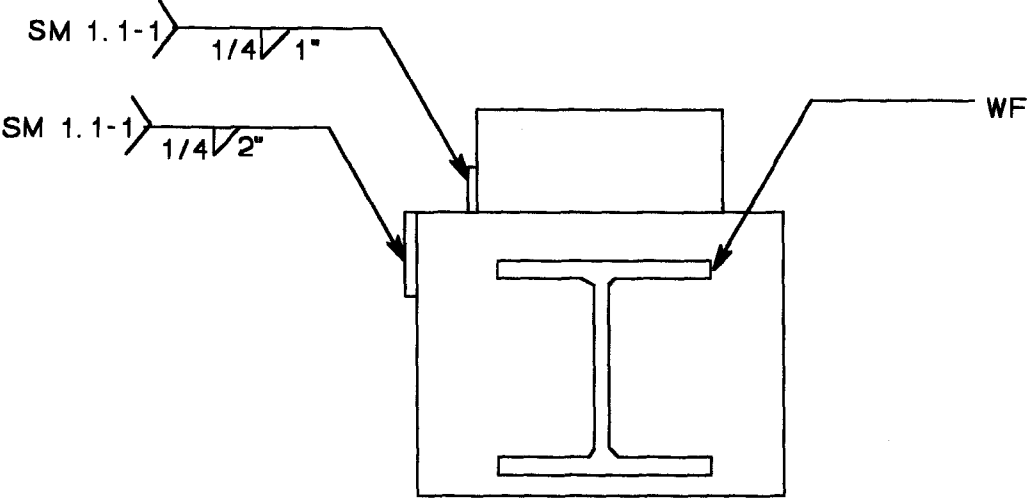


EXISTING 1/4 X 2 FLATBAR

TYPE 10 REPAIR

MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #7 AS BUILT DRAWINGS	
Repair No.: 003	File: 7R003
Upper Dome	Quadrant: D
Course: A	Plate: 22
Drawn by: Tom Kitchen	Date: 5/4/98

Defect Inspected 3/27/98 by JF 7 TK



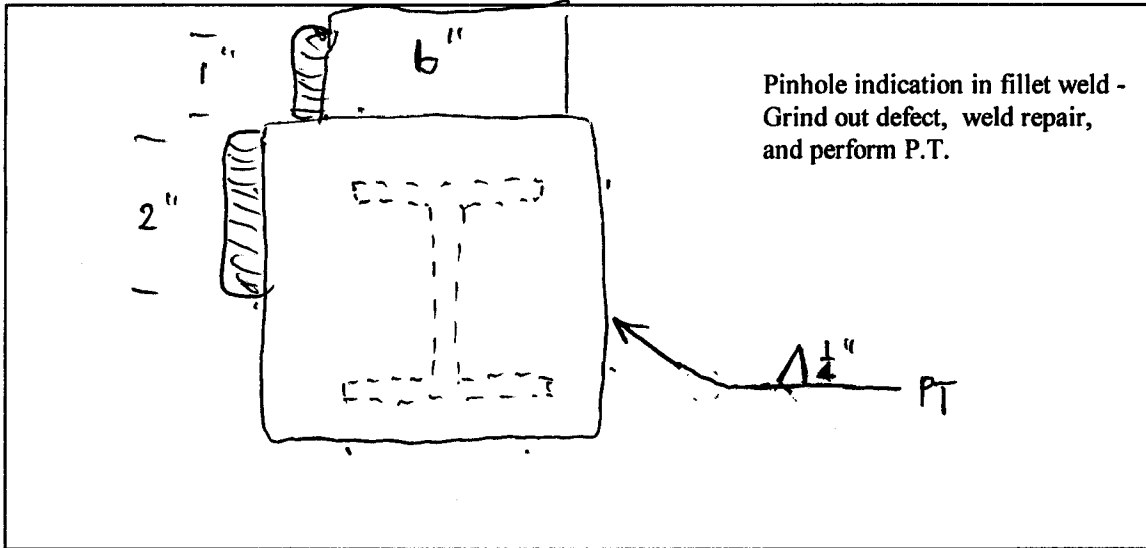
TYPE 10 REPAIR

MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #7 AS BUILT DRAWINGS	
Repair No.: 004	File: 7R004
Upper Dome	Quadrant: A
Course: A	Plate 22
Drawn by: Tom Kitchen	Date: 5/4/98

Dames & Moore
Emergency Repairs For Red Hill Tanks at the Fleet Industrial & Supply Center
Contract No. N62742-96-C-1356

Repair Record

Tank No.: 7 Repair No.: 004 Type: 10 Location: D22-A



Sketch of Repair Area

Weld Repair

WPS No.: SM1.1-1

Welder ID: John Walsh

NDT Performed: Visual Vacuum Box Dye Penetrant

Rework Required: N/A

Repair Acceptable: John Zehrell Date Accepted: 4-2-98

Coating Repair

Coating Type: Epoxy

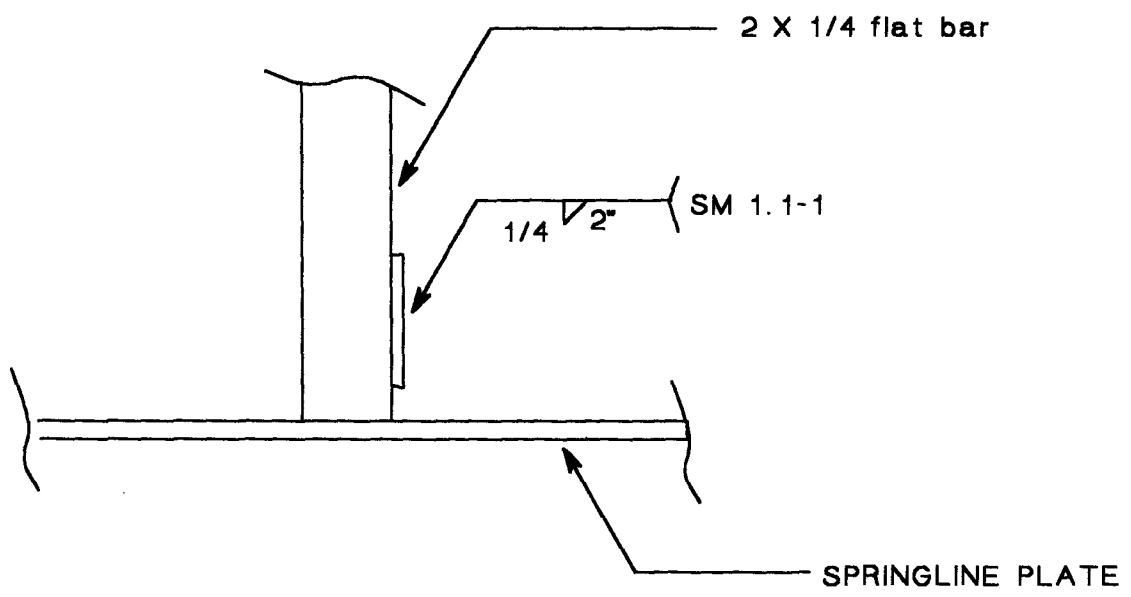
Surface Preparation: Primer Coat: Intermediate Coat: Final Coat:

NDT Performed: Visual: DFT: Average DFT: 8-15 mils

Rework Required: N/A

Repair Acceptable: John Zehrell Date Accepted: 4-3-98

Inspected 3/27/98 by JF & TK



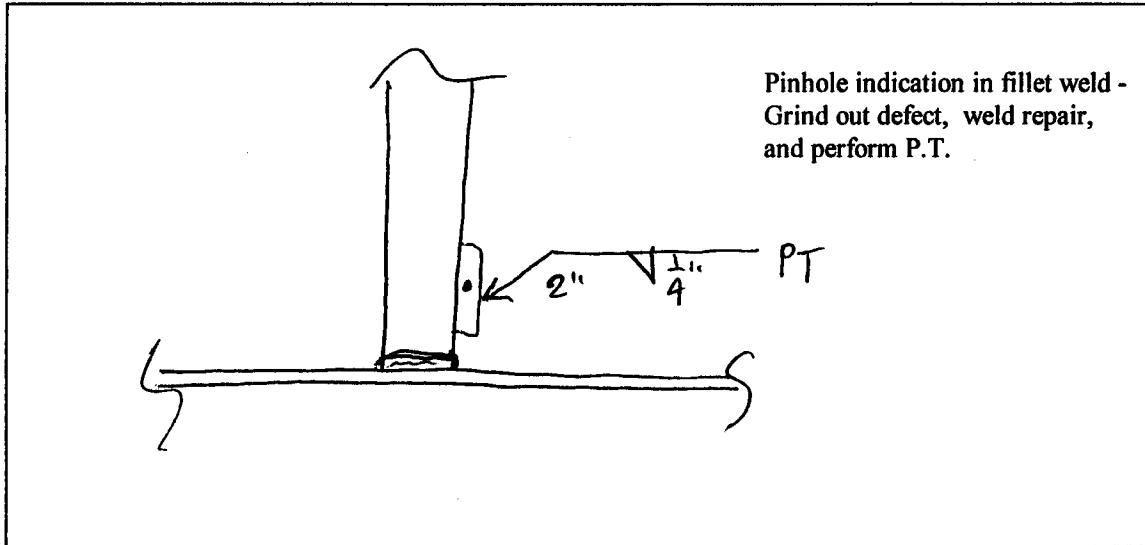
TYPE 10 REPAIR

MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #7 REPAIR DRAWING	
Repair No.: 005	File: 7R005
Upper Dome	Quadrant: A
Course: A	Plate: 22
Drawn by: Tom Kitchen	Date: 5/4/98

Dames & Moore
Emergency Repairs For Red Hill Tanks at the Fleet Industrial & Supply Center
Contract No. N62742-96-C-1356

Repair Record

Tank No.: 7 Repair No.: 005 Type: 10 Location: D 22 - A



Sketch of Repair Area

Weld Repair

WPS No.: SM1.1-1

Welder ID: John Walsh

NDT Performed: Visual Vacuum Box Dye Penetrant

Rework Required: N/A

Repair Acceptable: John Zedell Date Accepted: 4-2-98

Coating Repair

Coating Type: Epoxy

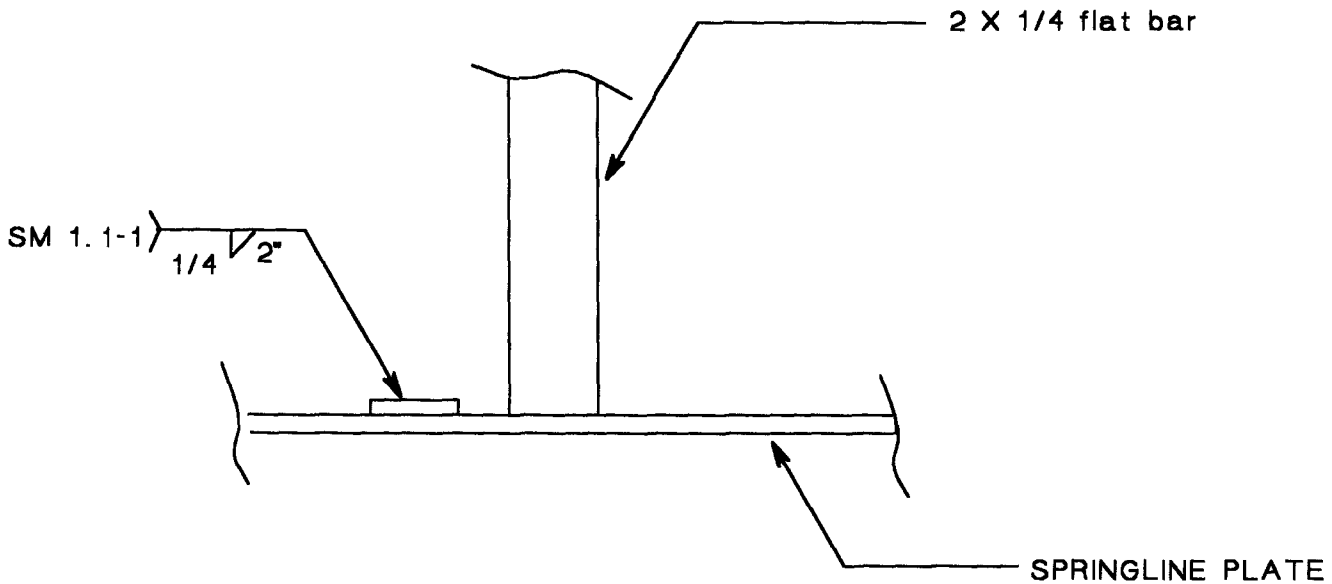
Surface Preparation: Primer Coat: Intermediate Coat: Final Coat:

NDT Performed: Visual: DFT: Average DFT: 8-15 mls

Rework Required: N/A

Repair Acceptable: John Zedell Date Accepted: 4-3-98

Inspected 3/27/98 by JF & TK



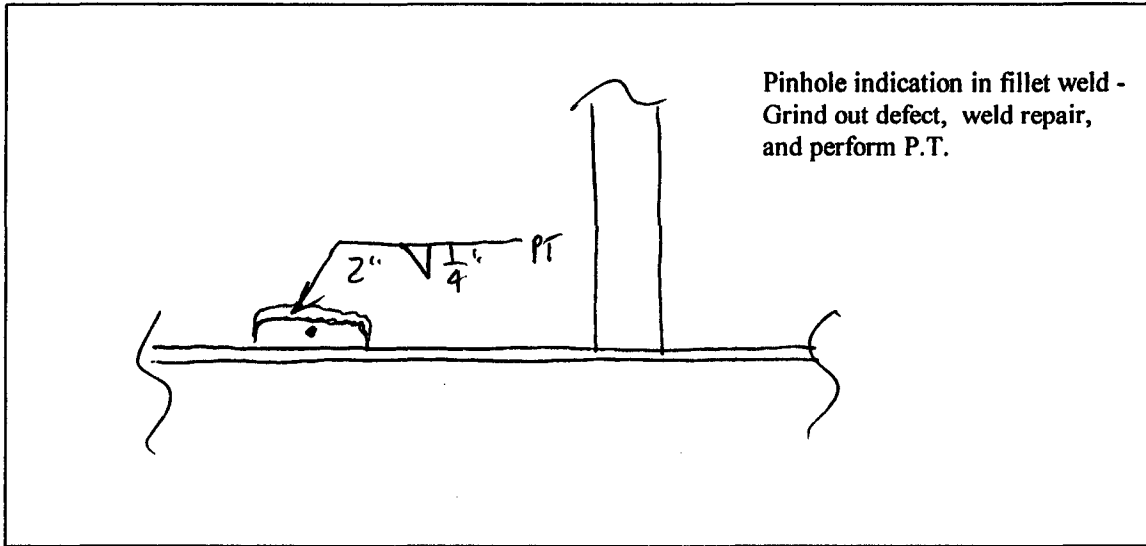
TYPE 10 REPAIR

MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #7 RECOMMENDED REPAIR DRAWING	
Repair No.: 006	File: 7R006
Upper Dome	Quadrant: A
Course: A	Plate: 22
Drawn by: Tom Kitchen	Date: 5/4/98

Dames & Moore
Emergency Repairs For Red Hill Tanks at the Fleet Industrial & Supply Center
Contract No. N62742-96-C-1356

Repair Record

Tank No.: 7 Repair No.: 006 Type: 10 Location: D22-A



Sketch of Repair Area

Weld Repair

WPS No.: SM1.1-1

Welder ID: John Walsh

NDT Performed: Visual Vacuum Box Dye Penetrant

Rework Required: N/A

Repair Acceptable: John Zahrell Date Accepted: 4-2-98

Coating Repair

Coating Type: Epoxy

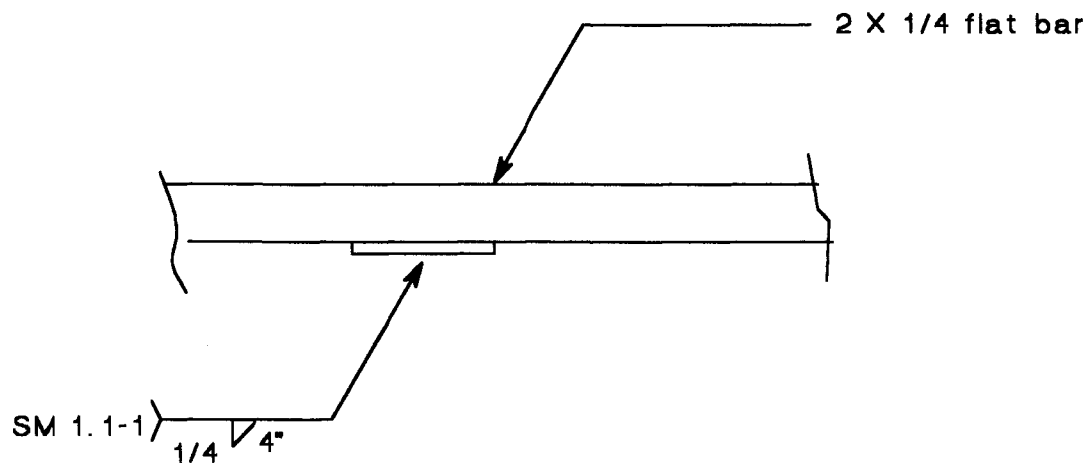
Surface Preparation: Primer Coat: Intermediate Coat: Final Coat:

NDT Performed: Visual: DFT: Average DFT: 8-15 mils

Rework Required: N/A

Repair Acceptable: John Zahrell Date Accepted: 4-3-98

Inspected 3/27/98 by JF & TK



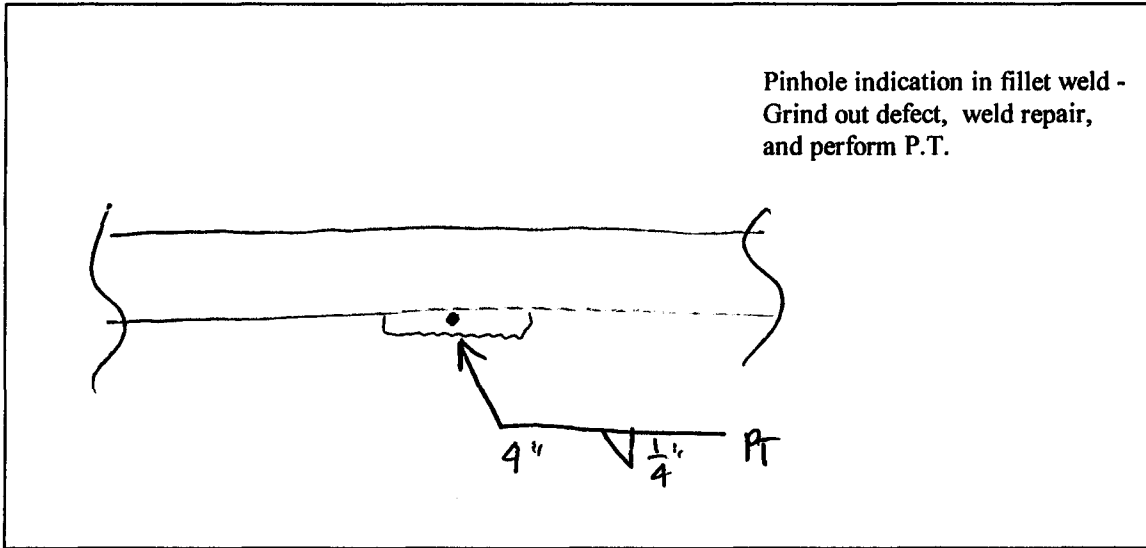
TYPE 10 REPAIR

MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #7 REPAIR DRAWING	
Repair No. : 007	File: 7R007
Upper Dome	Quadrant: D
Course: EXTENSION	Plate: 22
Drawn by: Tom Kitcher	Date: 5/4/98

Dames & Moore
Emergency Repairs For Red Hill Tanks at the Fleet Industrial & Supply Center
Contract No. N62742-96-C-1356

Repair Record

Tank No.: 7 Repair No.: 007 Type: 10 Location: D22-EXT



Sketch of Repair Area

Weld Repair

WPS No.: SM1.1-1

Welder ID: John Walsh

NDT Performed: Visual Vacuum Box Dye Penetrant

Rework Required: N/A

Repair Acceptable: John Zedell Date Accepted: 4-2-98

Coating Repair

Coating Type: Epoxy

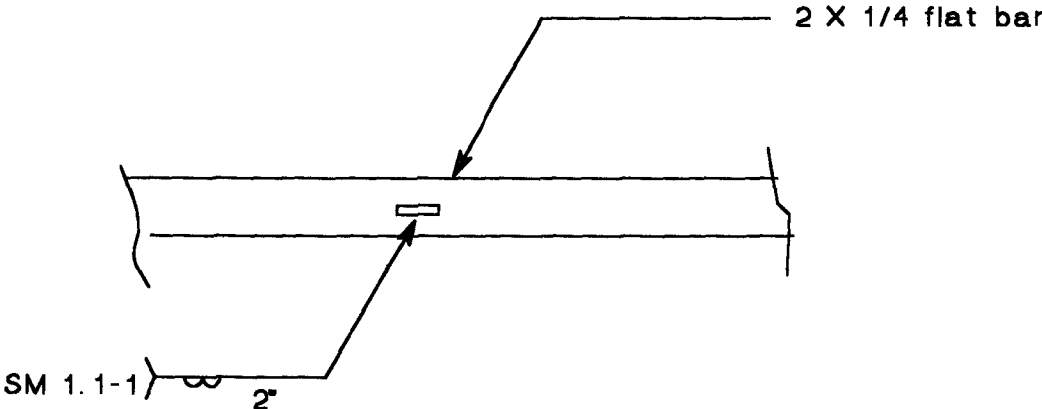
Surface Preparation: Primer Coat: Intermediate Coat: Final Coat:

NDT Performed: Visual: DFT: Average DFT: 8-15 mils

Rework Required: N/A

Repair Acceptable: John Zedell Date Accepted: 4-3-98

Inspected 3/27/98 by JF & TK



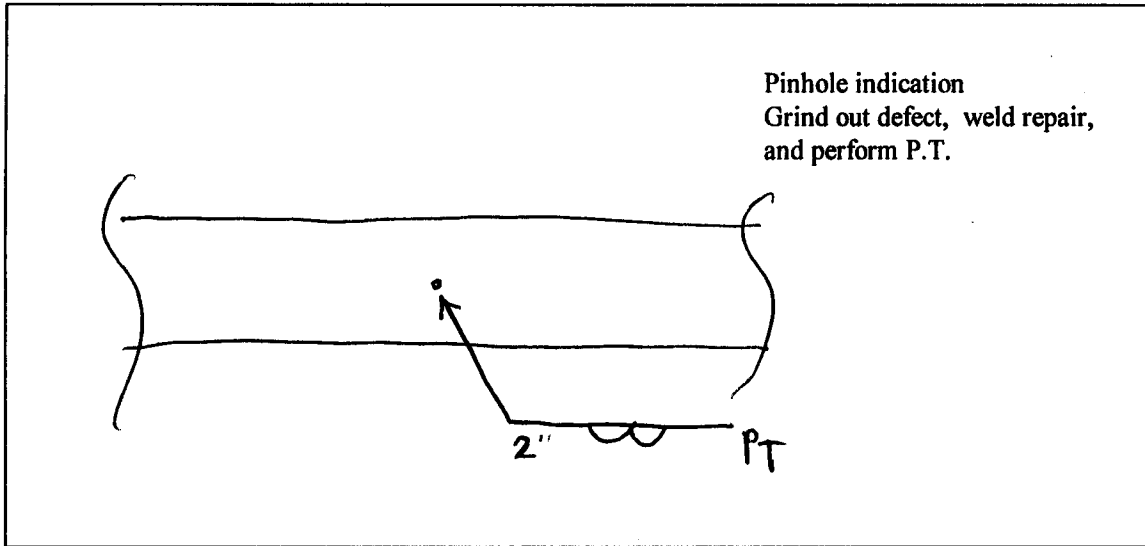
TYPE 10 REPAIR

MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #7 REPAIR DRAWING	
Repair No. : 008	File: 7R008
Upper Dome	Quadrant: D
Course: EXTENSION	Plate: 22
Drawn by: Tom Kitchen	Date: 5/4/98

Dames & Moore
Emergency Repairs For Red Hill Tanks at the Fleet Industrial & Supply Center
Contract No. N62742-96-C-1356

Repair Record

Tank No.: 7 Repair No.: 008 Type: 10 Location: D22-EXT



Sketch of Repair Area

Weld Repair

WPS No.: SM1.1-1

Welder ID: John Walsh

NDT Performed: Visual Vacuum Box Dye Penetrant

Rework Required: N/A

Repair Acceptable: John Zschell Date Accepted: 4-2-98

Coating Repair

Coating Type: Epoxy

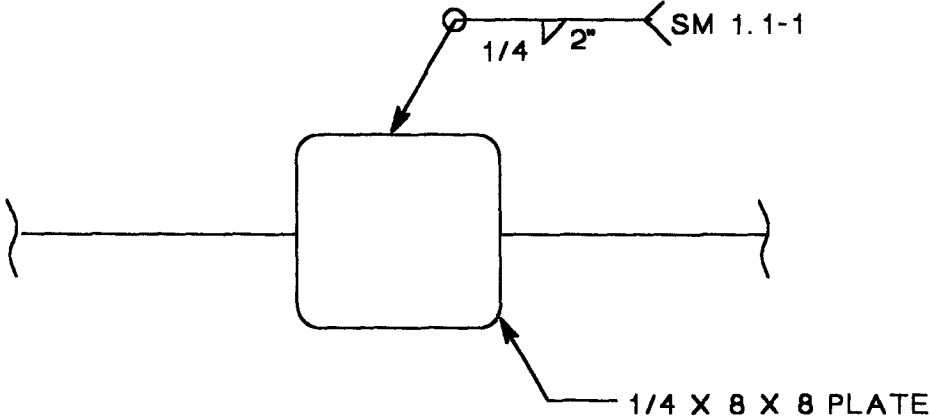
Surface Preparation: Primer Coat: Intermediate Coat: Final Coat:

NDT Performed: Visual: DFT: Average DFT: 8-15 mils

Rework Required: N/A

Repair Acceptable: John Zschell Date Accepted: 4-3-98

Inspected 3/27/98 by JF & TK



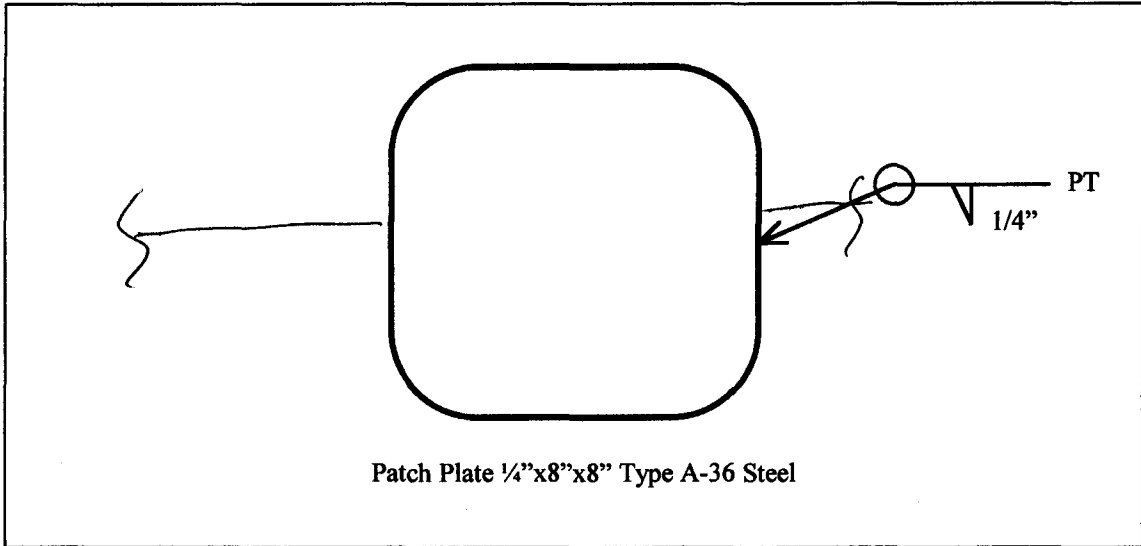
TYPE 5 REPAIR

MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #7 REPAIR DRAWING	
Repair No.: 009	File: 7R009
CYLINDER	Quadrant: D
Course: 7	Plate: 22
Drawn by: Tom Kitchen	Date: 5/4/98

Dames & Moore
Emergency Repairs For Red Hill Tanks at the Fleet Industrial & Supply Center
Contract No. N62742-96-C-1356

Repair Record

Tank No.: 7 Repair No.: 009 Type: 5 Location: D22-07



Sketch of Repair Area

Weld Repair

WPS No.: SM1.1-1

Welder ID: John Walsh

NDT Performed: Visual Vacuum Box Dye Penetrant

Rework Required: N/A

Repair Acceptable: John Zarell Date Accepted: 4-2-98

Coating Repair

Coating Type: Epoxy

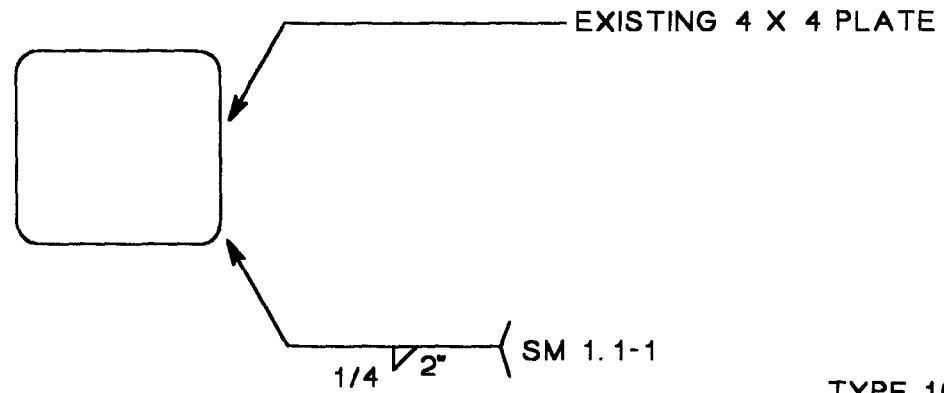
Surface Preparation: Primer Coat: Intermediate Coat: Final Coat:

NDT Performed: Visual: DFT: Average DFT: 8-15 mils

Rework Required: N/A

Repair Acceptable: John Zarell Date Accepted: 4-3-98

Inspected 3/27/98 by JF & TK



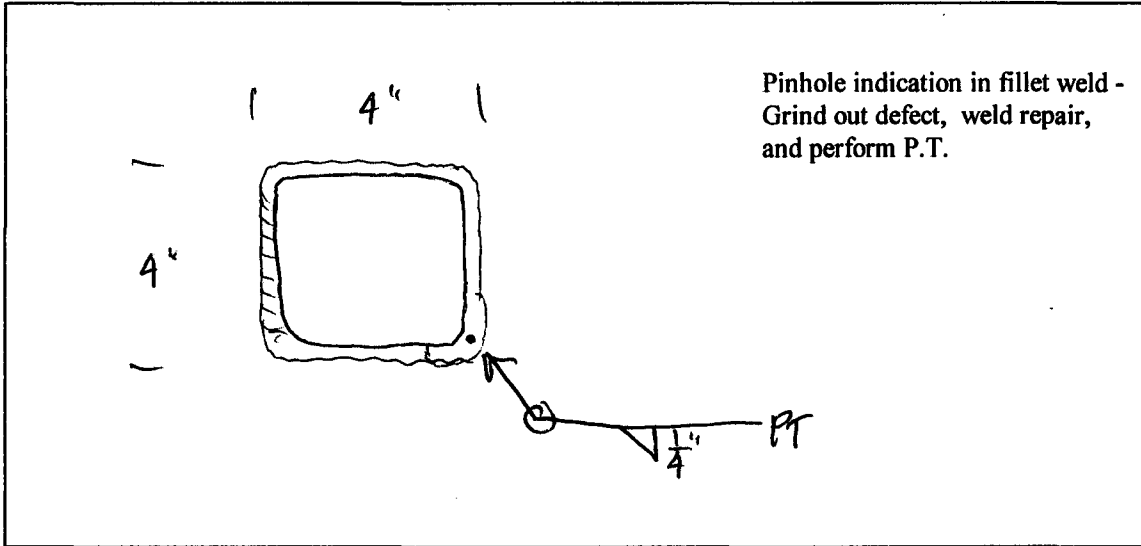
TYPE 10 REPAIR

MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #7 REPAIR DRAWING	
Repair No.: 010	File: 7R010
CYLINDER	Quadrant: D
Course: 28	Plate: 22
Drawn by: Tom Kitchen	Date: 5/4/98

Dames & Moore
Emergency Repairs For Red Hill Tanks at the Fleet Industrial & Supply Center
Contract No. N62742-96-C-1356

Repair Record

Tank No.: 7 Repair No.: 010 Type: 10 Location: D22-28



Sketch of Repair Area

Weld Repair

WPS No.: SM1.1-1

Welder ID: John Walsh

NDT Performed: Visual Vacuum Box Dye Penetrant

Rework Required: N/A

Repair Acceptable: John Zschell Date Accepted: 4-2-98

Coating Repair

Coating Type: Epoxy

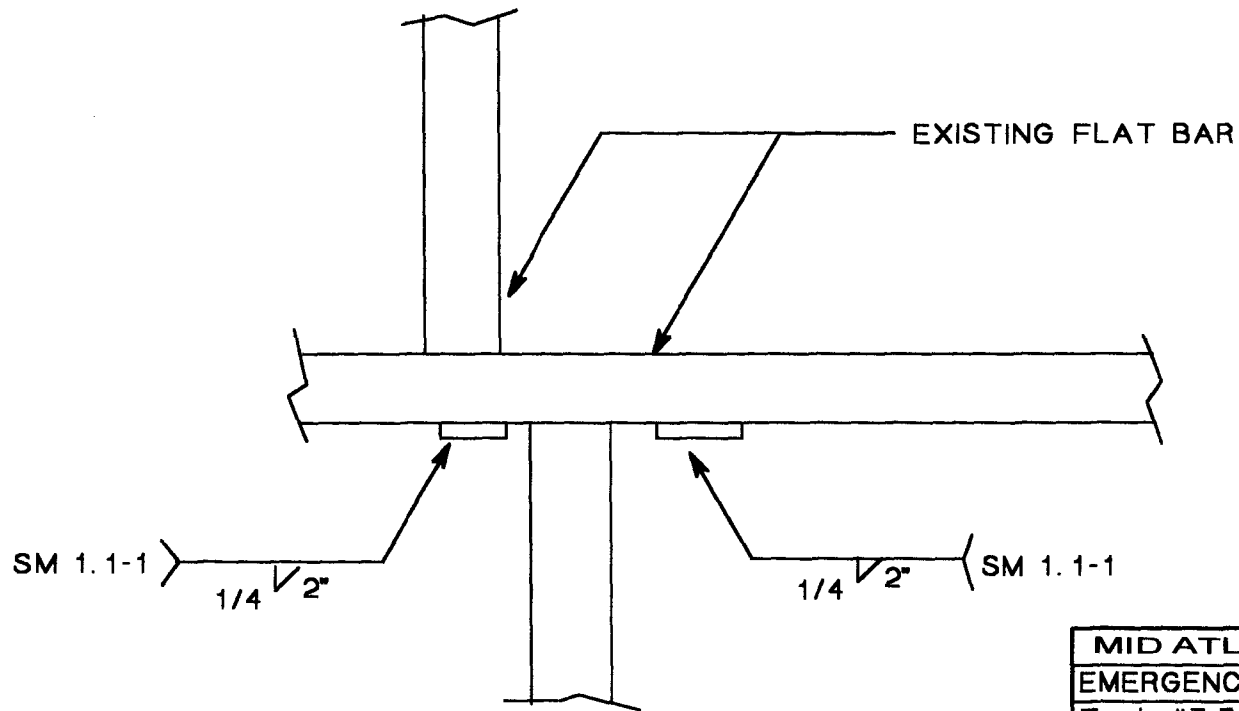
Surface Preparation: Primer Coat: Intermediate Coat: Final Coat:

NDT Performed: Visual: DFT: Average DFT: 8-15 mils

Rework Required: N/A

Repair Acceptable: John Zschell Date Accepted: 4-3-98

Inspected 3/27/98 by JF & TK



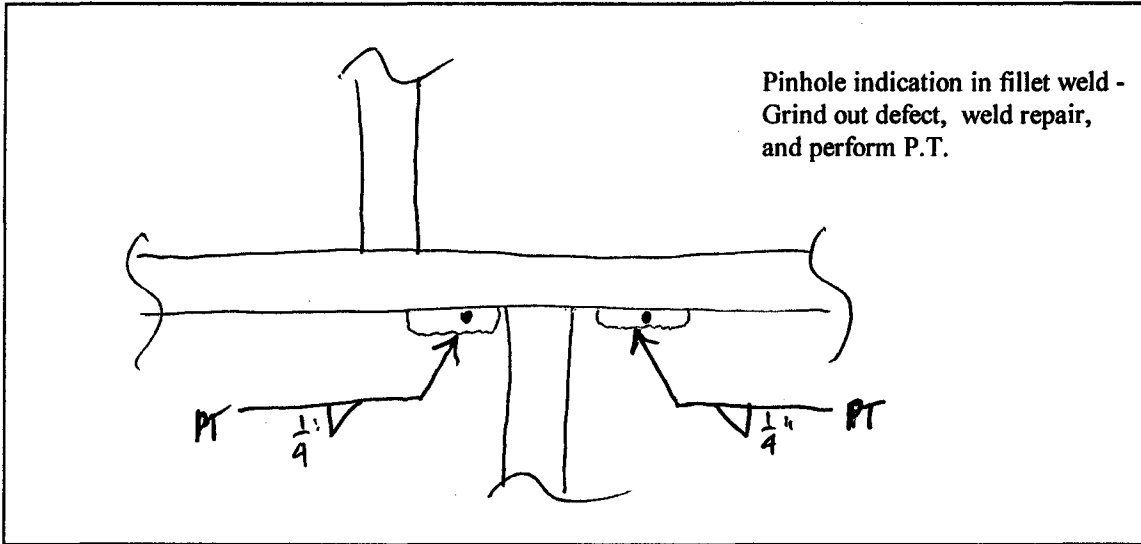
TYPE 10 REPAIR

MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #7 REPAIR DRAWING	
Repair No.: 011	File: 7R011
UPPER DOME	Quadrant: C
Course: A	Plate: 17
Drawn by: Tom Kitchen	Date: 5/4/98

Dames & Moore
Emergency Repairs For Red Hill Tanks at the Fleet Industrial & Supply Center
Contract No. N62742-96-C-1356

Repair Record

Tank No.: 7 Repair No.: 011 Type: 10 Location: C17-A



Sketch of Repair Area

Weld Repair

WPS No.: SM1.1-1

Welder ID: John Walsh

NDT Performed: Visual Vacuum Box Dye Penetrant

Rework Required: N/A

Repair Acceptable: John Zschell Date Accepted: 4-2-98

Coating Repair

Coating Type: Epoxy

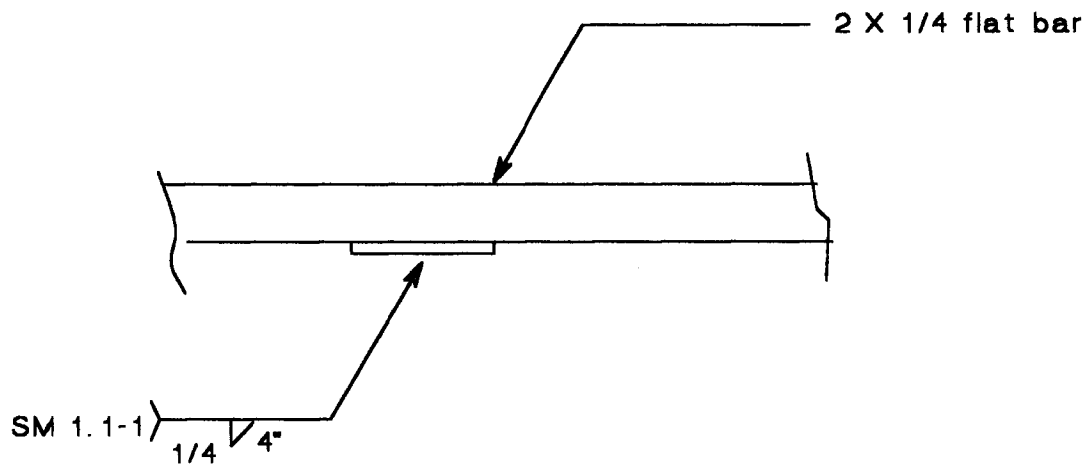
Surface Preparation: Primer Coat: Intermediate Coat: Final Coat:

NDT Performed: Visual: DFT: Average DFT: 8-15 mils

Rework Required: N/A

Repair Acceptable: John Zschell Date Accepted: 4-3-98

Inspected 3/27/98 by JF & TK



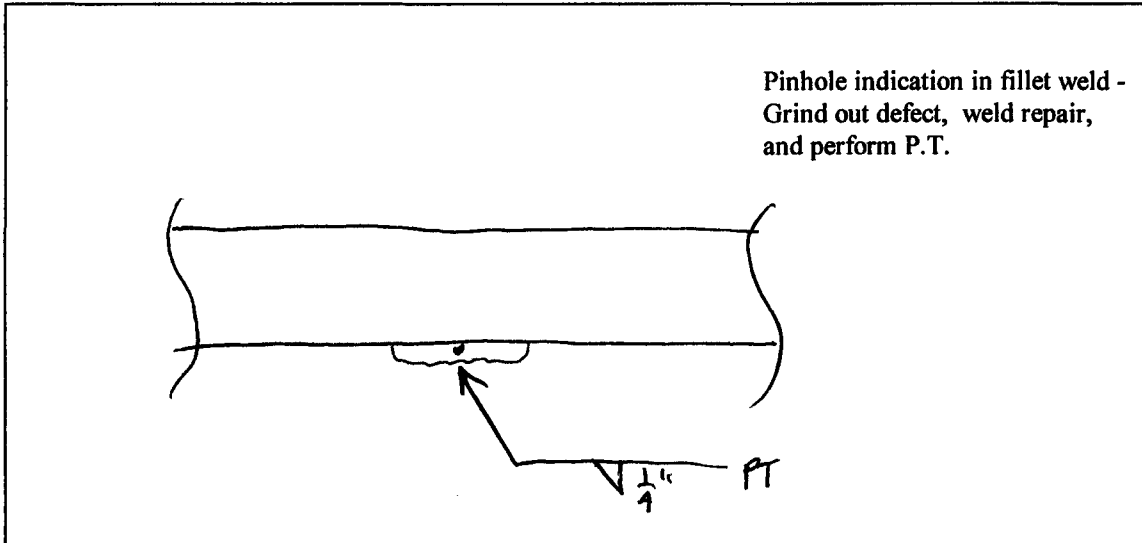
TYPE 10 REPAIR

MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #7 RECOMMENDED REPAIR DRAWING	
Repair No.: 012	File: 7R012
Upper Dome	Quadrant: D
Course: A	Plate: 22
Drawn by: Tom Kitchen	Date: 5/4/98

Dames & Moore
Emergency Repairs For Red Hill Tanks at the Fleet Industrial & Supply Center
Contract No. N62742-96-C-1356

Repair Record

Tank No.: 7 Repair No.: 012 Type: 10 Location: D22-A/B



Sketch of Repair Area

Weld Repair

WPS No.: SM1.1-1

Welder ID: John Walsh

NDT Performed: Visual Vacuum Box Dye Penetrant

Rework Required: N/A

Repair Acceptable: John Zschell Date Accepted: 4-2-98

Coating Repair

Coating Type: Epoxy

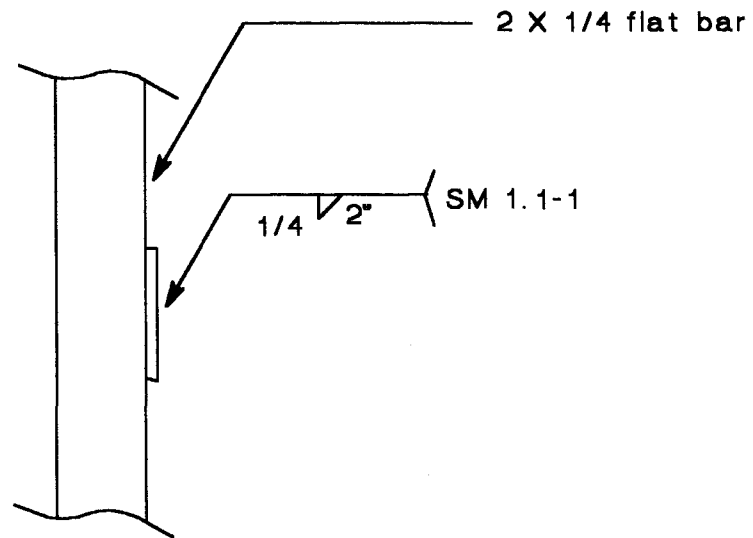
Surface Preparation: Primer Coat: Intermediate Coat: Final Coat:

NDT Performed: Visual: DFT: Average DFT: 8-15 mils

Rework Required: N/A

Repair Acceptable: John Zschell Date Accepted: 4-3-98

Inspected 3/27/98 by JF & TK



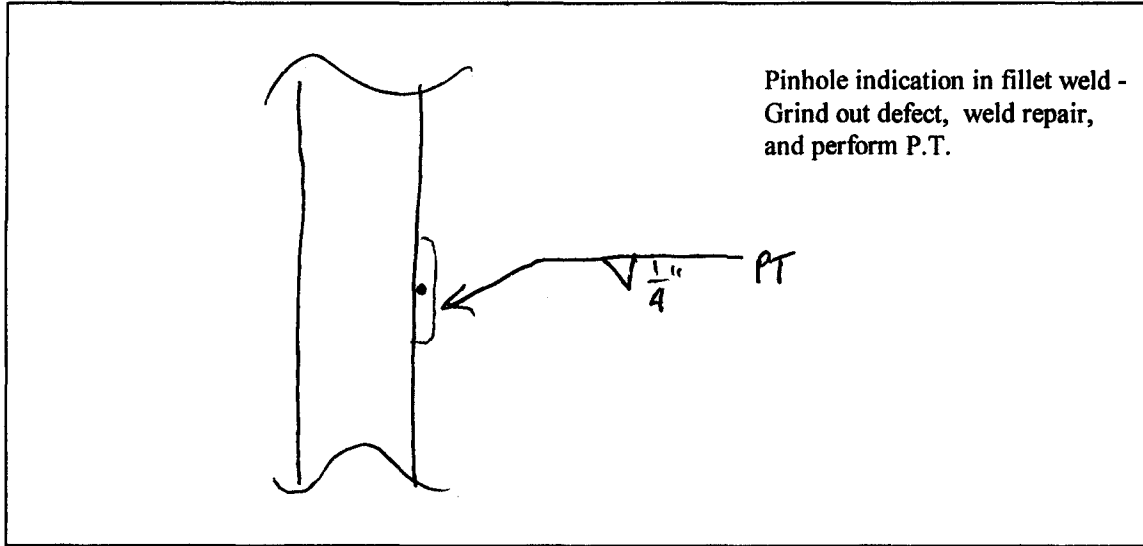
TYPE 10 REPAIR

MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #7 RECOMMENDED REPAIR DRAWINGS	
Repair No.: 013	File: 7R013
Upper Dome	Quadrant: D
Course: A	Plate: 22
Drawn by: Tom Kitchen	Date: 5/4/98

Dames & Moore
Emergency Repairs For Red Hill Tanks at the Fleet Industrial & Supply Center
Contract No. N62742-96-C-1356

Repair Record

Tank No.: 7 Repair No.: 013 Type: 10 Location: D22-A



Sketch of Repair Area

Weld Repair

WPS No.: SM1.1-1

Welder ID: John Walsh

NDT Performed: Visual Vacuum Box Dye Penetrant

Rework Required: N/A

Repair Acceptable: John Zschell Date Accepted: 4-2-98

Coating Repair

Coating Type: Epoxy

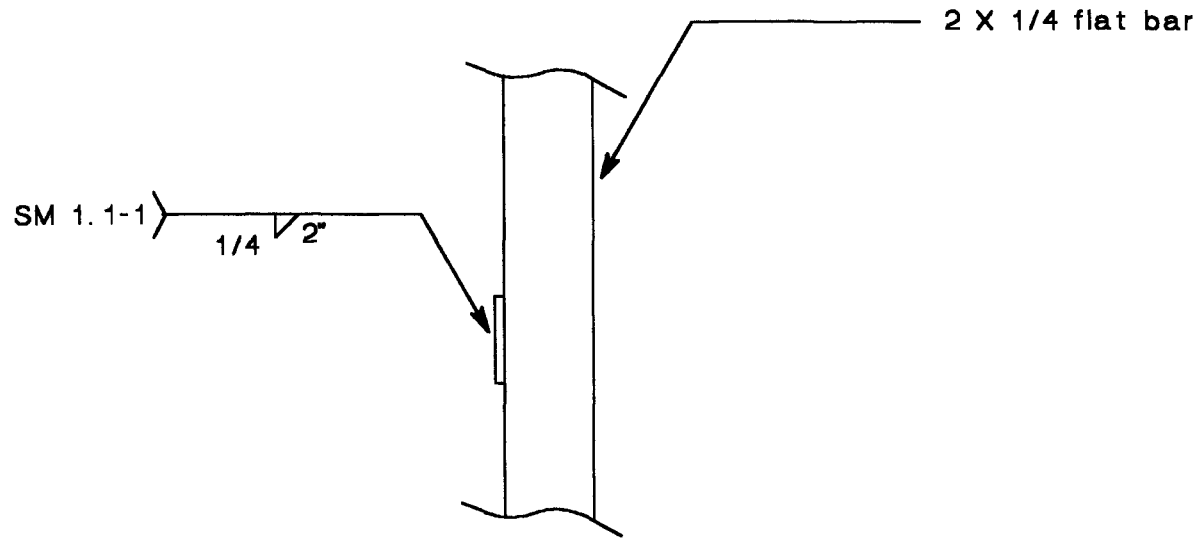
Surface Preparation: Primer Coat: Intermediate Coat: Final Coat:

NDT Performed: Visual: DFT: Average DFT: 8-15 mils

Rework Required: N/A

Repair Acceptable: John Zschell Date Accepted: 4-3-98

Inspected 3/27/98 by JF & TK



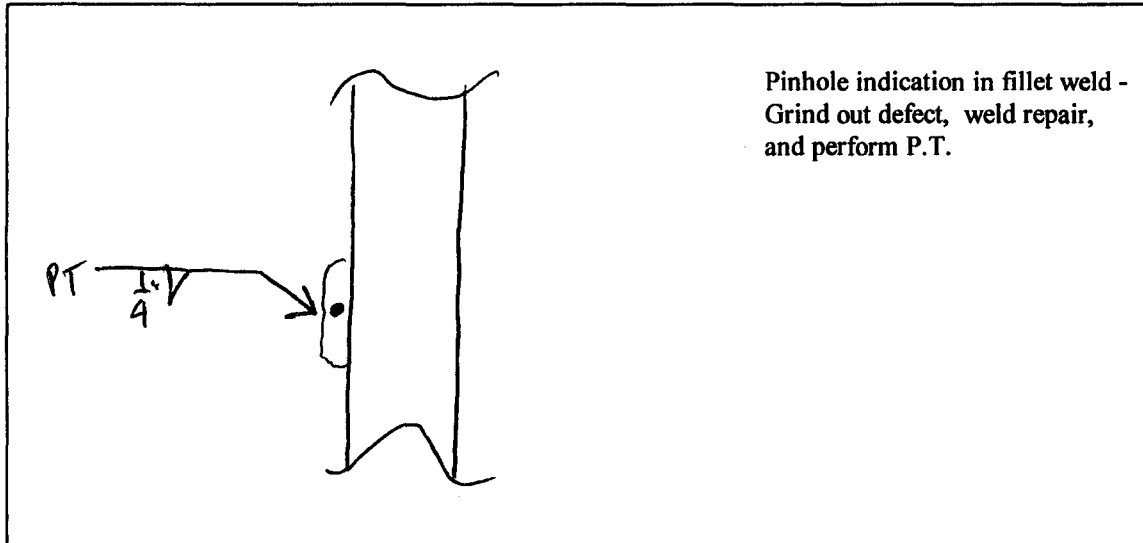
TYPE 10 REPAIR

MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #7 RECOMMENDED REPAIR DRAWINGS	
Repair No.: 014	File: 7R014
Upper Dome	Quadrant: D
Course: A	Plate: 21
Drawn by: Tom Kitchen	Date: 5/4/98

Dames & Moore
Emergency Repairs For Red Hill Tanks at the Fleet Industrial & Supply Center
Contract No. N62742-96-C-1356

Repair Record

Tank No.: 7 Repair No.: 014 Type: 10 Location: D21 - A



Sketch of Repair Area

Weld Repair

WPS No.: SM1.1-1

Welder ID: John Walsh

NDT Performed: Visual Vacuum Box Dye Penetrant

Rework Required: N/A

Repair Acceptable: John Zschell Date Accepted: 4-2-98

Coating Repair

Coating Type: Epoxy

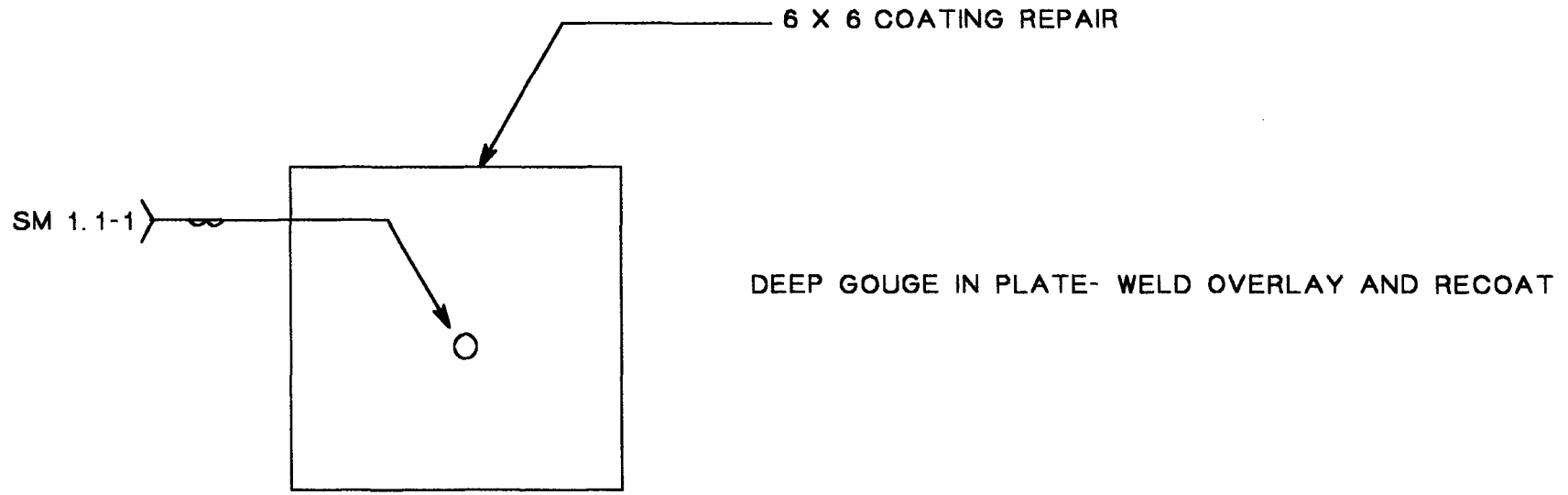
Surface Preparation: Primer Coat: Intermediate Coat: Final Coat:

NDT Performed: Visual: DFT: Average DFT: 8-15 mils

Rework Required: N/A

Repair Acceptable: John Zschell Date Accepted: 4-3-98

Inspected 3/27/98 by JF & TK



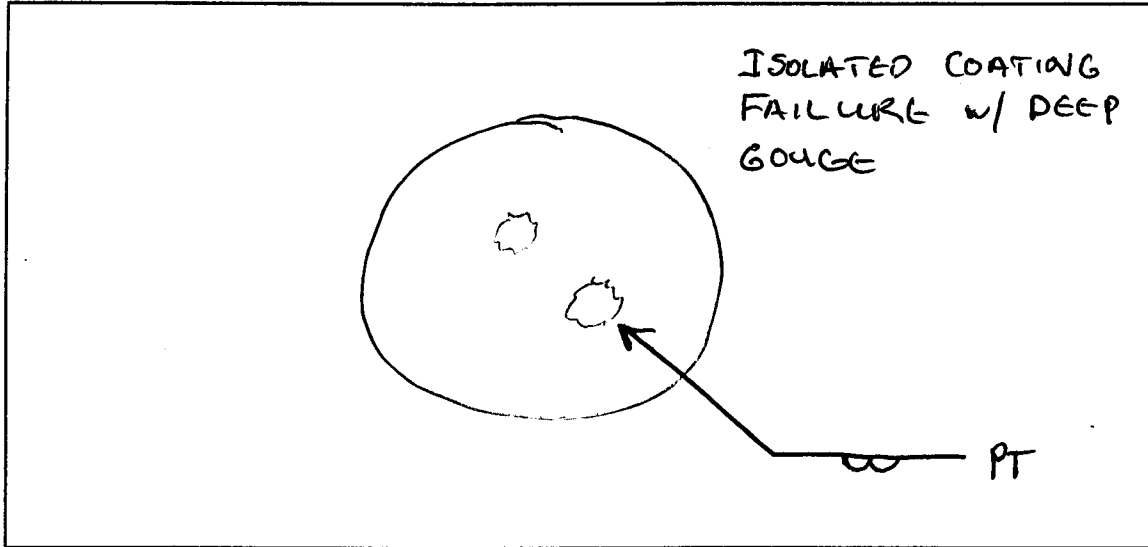
TYPE 2 REPAIR

MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #7 RECOMMENDED REPAIR DRAWINGS	
Repair No. : 015	File: 7R015
Upper Dome	Quadrant: D
Course: A	Plate: 21
Drawn by: Tom Klitcher	Date: 5/4/98

Dames & Moore
Emergency Repairs For Red Hill Tanks at the Fleet Industrial & Supply Center
Contract No. N62742-96-C-1356

Repair Record

Tank No.: 7 Repair No.: 015 Type: 82 Location: D21-A



Sketch of Repair Area

Weld Repair ~~N/A~~

WPS No.: SM 1.1-1

Welder ID: John Walsh

NDT Performed: Visual Vacuum Box Dye Penetrant

Rework Required: N/A

Repair Acceptable: John Zickell

Date Accepted: 4-2-98

Coating Repair

Coating Type: Epoxy

Surface Preparation: Primer Coat: Intermediate Coat: Final Coat:

NDT Performed: Visual: DFT: Average DFT: 8-15 mils

Rework Required: N/A

Repair Acceptable: John Zickell

Date Accepted: 4-3-98