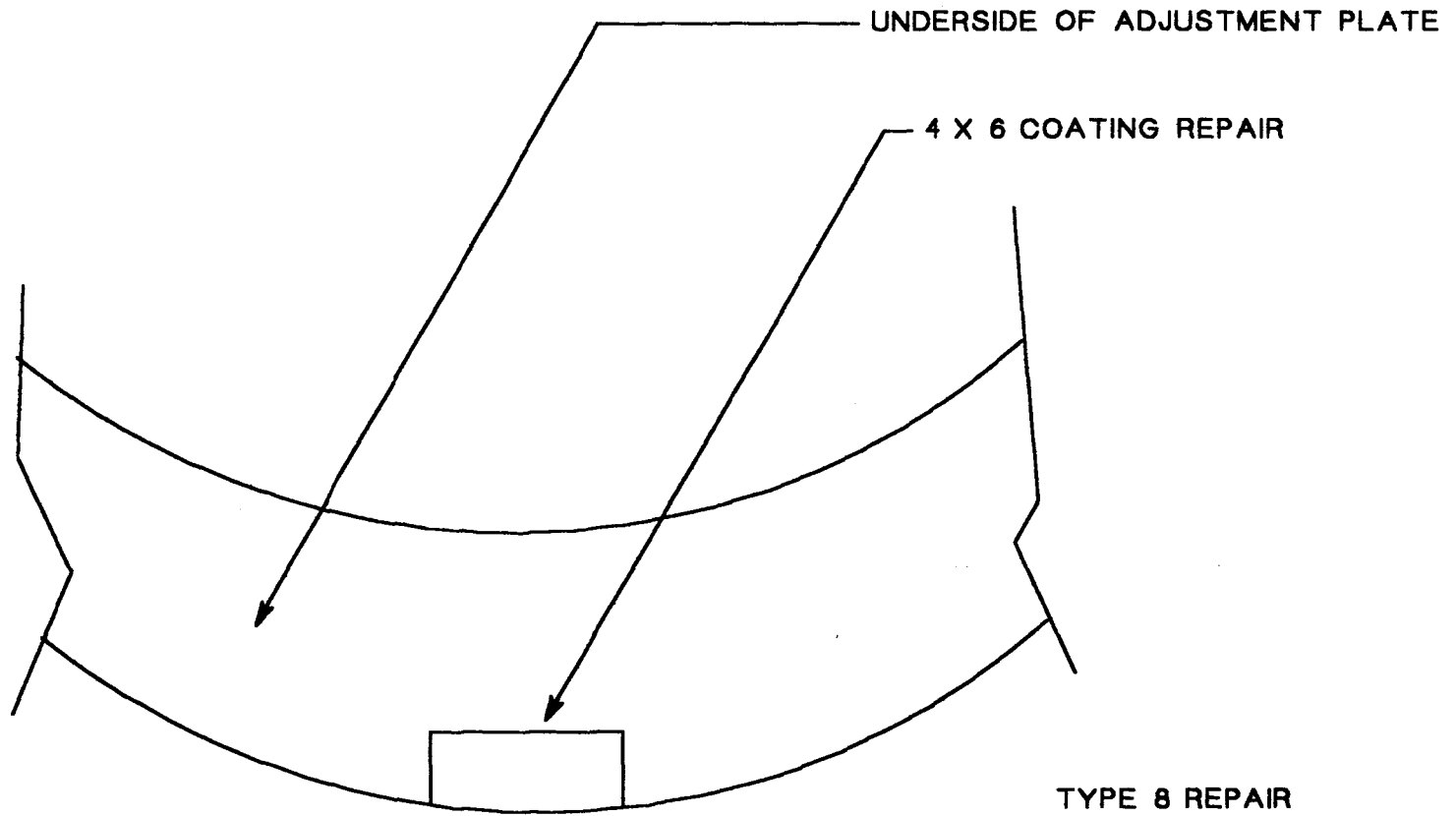


Section 9

RECOMMENDED REPAIRS

TANK #8										
Repair #	TYPE	Actual	Coated Areas	Plate size	Weld Lgth	Location	Quadrant	Course	Plate	
		Repair	Square Inches	Inches	Inches					
1		8	25			Upper Dome	D	EXT	22	previously ground
2		8	40			Upper Dome	C	EXT	14	previously ground
3		8	60			Cylinder	D	19	21	
4		8	1550			Lower Dome	D	2	18	
5		8	1550			Lower Dome	D	2	18	
6		8	1550			Lower Dome	D	2	18	
7		8	1550			Lower Dome	C	2	14	
8		8	1550			Lower Dome	C	2	13	
9		8	100			Upper Dome	B	EXT	11	
10	previous repair					Cylinder	C	11	14	UT only
11		8	100			Cylinder	A	8	2	
12		9	40		1	Cylinder	B	17	9	
13		8	40			Lower Dome	B	3	11	
14		8	70			Lower Dome	B	3	10	
15		8	70			Lower Dome	B	3	10	
16		8	40			Lower Dome	B	3	9	
17		8	50			Lower Dome	B	3	8	
18		8	60			Lower Dome	B	2	10	
19		8	1550			Lower Dome	B	2	11	
20		8	1550			Lower Dome	B	2	11	
21		8	120			Lower Dome	A	2	2	
22		10			6	Lower Dome	B	1	12	

NOTE: AREA ~~EAS~~ FOUND TO BE GROUND TO BARE METAL



TYPE 8 REPAIR

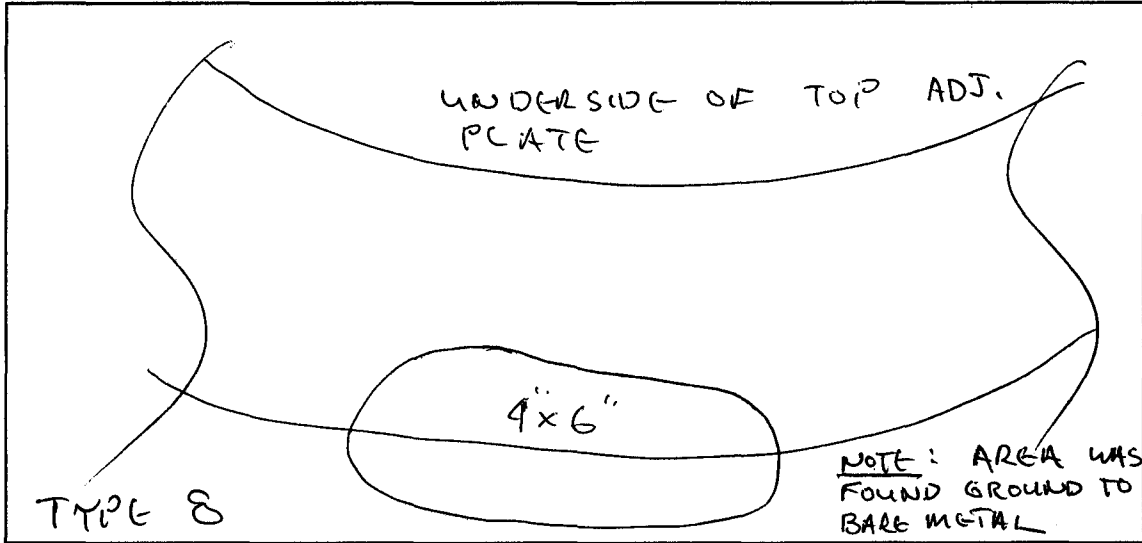
MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #8 AS BUILT DRAWINGS	
Repair No.: 001	File: 8R001
UPPER DOME	Quadrant: D
Course: EXTENSION	PLATE: 22
Drawn by: Tom Klitcher	Date: 5/4/98

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

Repair Record

ADD

Tank No.: 8 Repair No.: 001 Type: 8 Location: D



Sketch of Repair Area

Weld Repair N/A

WPS No.: SM1.1-1

Welder ID: John Walsh

NDT Performed: Visual Vacuum Box Dye Penetrant

Rework Required: _____

Repair Acceptable: _____ Date Accepted: _____

Coating Repair

Coating Type: Epoxy

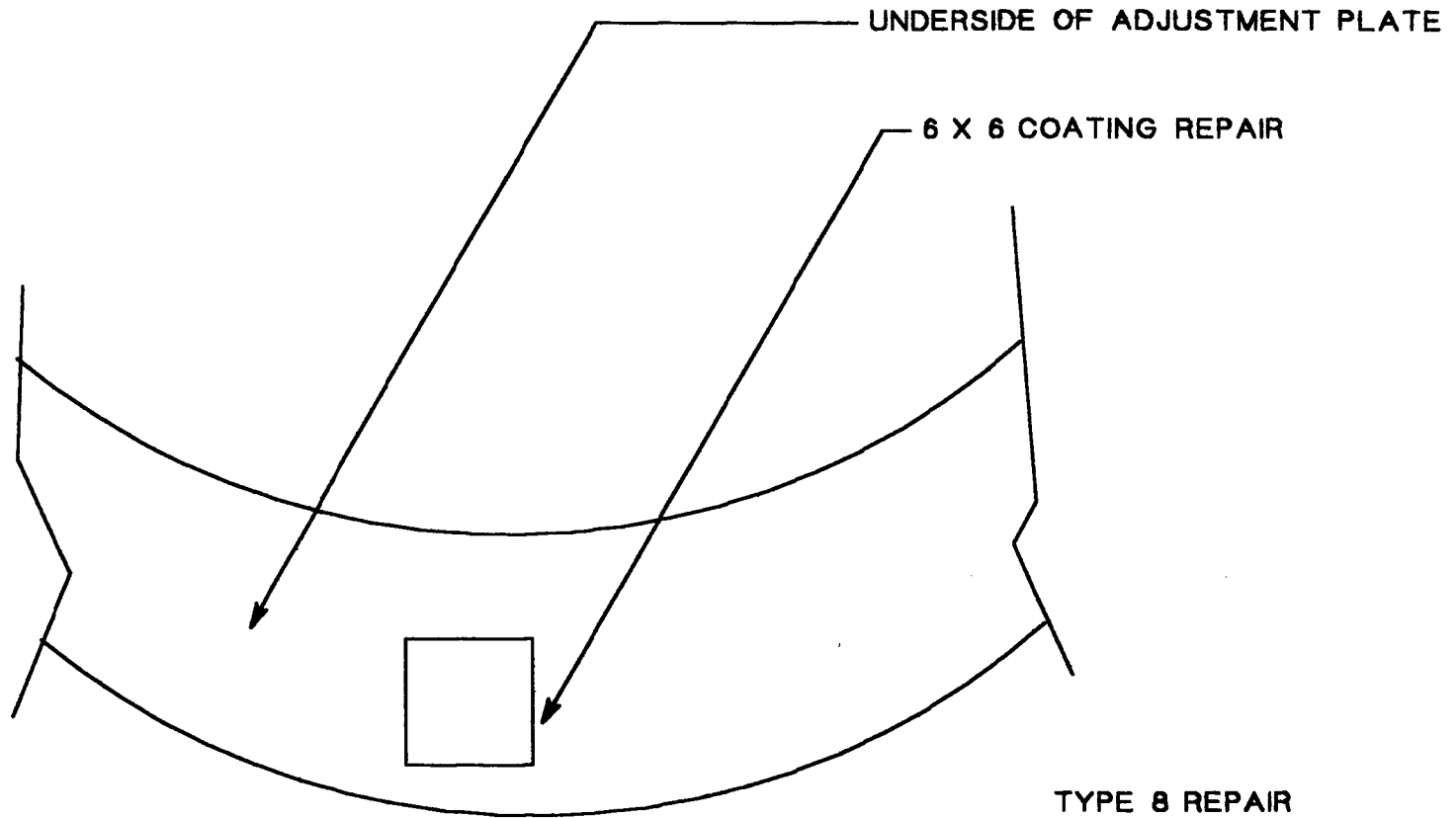
Surface Preparation: Primer Coat: Intermediate Coat: Final Coat:

NDT Performed: Visual: DFT: Average DFT: > 8 mils
< 15 mils

Rework Required: N/A

Repair Acceptable: John Walsh Date Accepted: 3-24-98

NOTE: AREA EAS FOUND TO BE GROUND TO BARE METAL



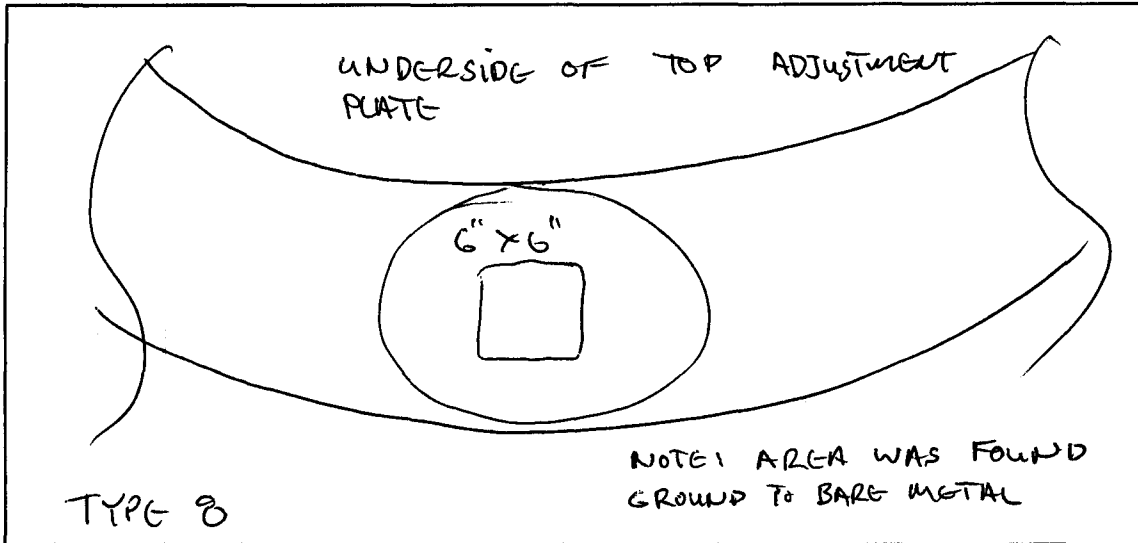
TYPE 8 REPAIR

MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #8 AS BUILT DRAWINGS	
Repair No.: 002	File: 8R001
UPPER DOME	Quadrant: C
Course: EXTENSION	PLATE: 14
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.: 8 Repair No.: ADD 002 Type: 8 Location: C



Sketch of Repair Area

Weld Repair N/A

WPS No.: SM1.1-1

Welder ID: John Walsh

NDT Performed: Visual Vacuum Box Dye Penetrant

Rework Required: _____

Repair Acceptable: _____ Date Accepted: _____

Coating Repair

Coating Type: Epoxy

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

NDT Performed: Visual: DFT: Average DFT: > 8 mils
< 15 mils

Rework Required: N/A

Repair Acceptable: John Zuberell Date Accepted: 3-24-98

DEFECT INSPECTED BY TK & JF 3/20/98

6 X 10 COATING REPAIR



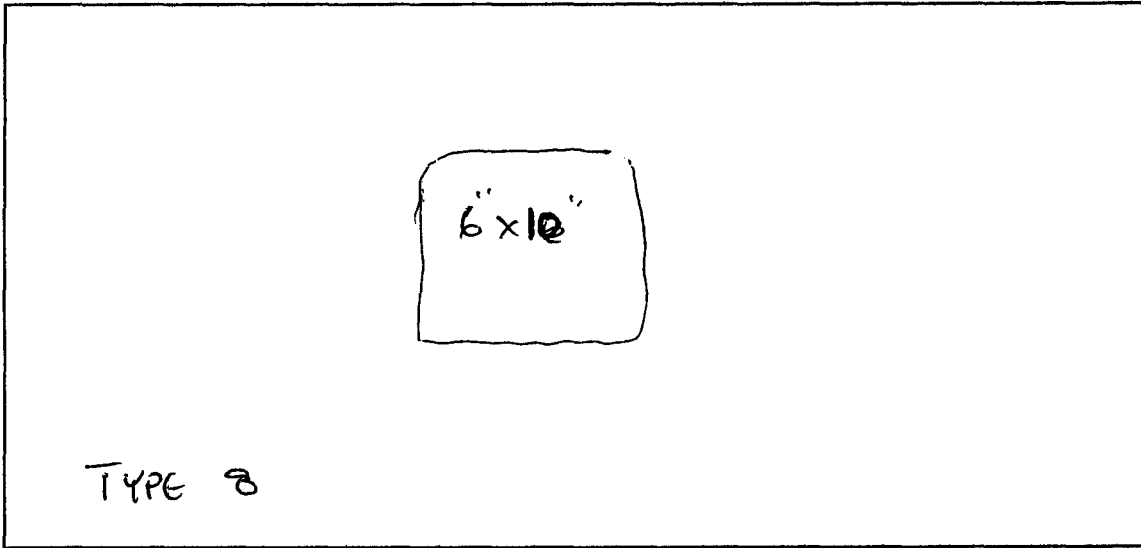
TYPE 8 REPAIR

MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #8 AS BUILT DRAWING	
Repair No.: 003	File #: 8003
CYLINDER	Quadrant: D
Course: 19	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.: 8 Repair No.: ADD 003 Type: 8 Location: D



Sketch of Repair Area

Weld Repair N/A

WPS No.: SM1.1-1

Welder ID: John Walsh

NDT Performed: Visual Vacuum Box Dye Penetrant

Rework Required: _____

Repair Acceptable: _____ Date Accepted: _____

Coating Repair

Coating Type: Epoxy

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

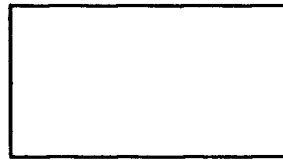
NDT Performed: Visual: DFT: Average DFT: > 8 mils
< 15 mils

Rework Required: N/A

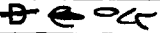
Repair Acceptable: John Zschell Date Accepted: 3-24-98

DEFECT INSPECTED BY TK & JF 3/20/98

30 X 50 COATING REPAIR



TYPE 8 REPAIR

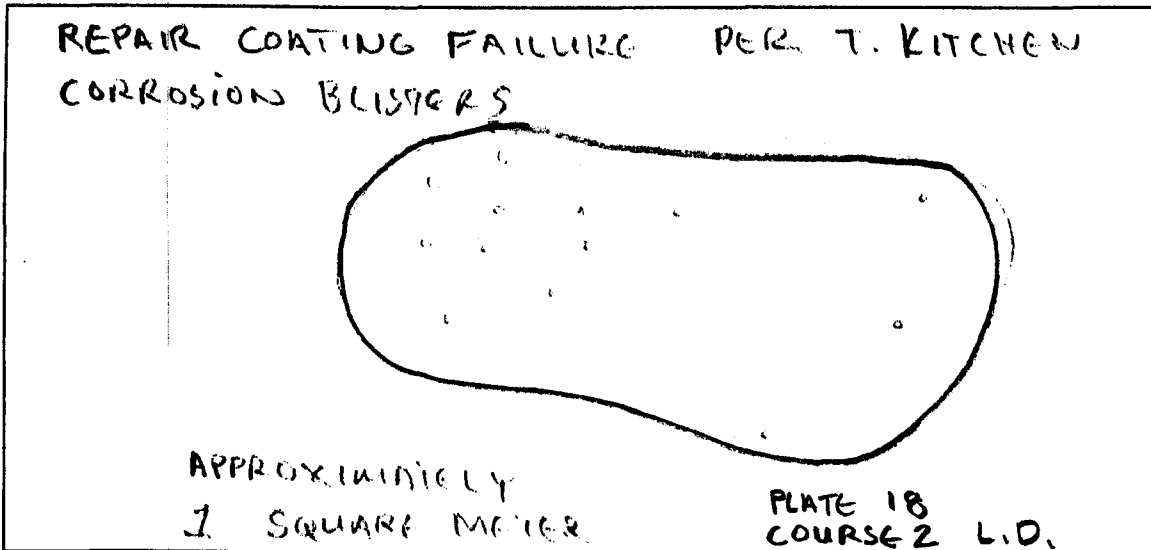
MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #8 AS BUILT DRAWING	
Repair No.: 004	File: 8r004
LOWER DOME	Quadrant: B 
Course: 2	PLATE: 18
Drawn by: Tom Kitchen	Date: 5/4/98

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

Repair Record

ADD

Tank No.: 8 Repair No.: 004 Type: 8 Location: D



Sketch of Repair Area

Weld Repair N/A

WPS No.: _____

Welder ID: _____

NDT Performed: Visual _____ Vacuum Box _____ Dye Penetrant _____

Rework Required: _____

Repair Acceptable: _____ Date Accepted: _____

Coating Repair

Coating Type: EPOXY

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

NDT Performed: Visual: DFT: Average DFT: 15 mil → 22 mil

Rework Required: N/A

Repair Acceptable: John Zerkell Date Accepted: 3-27-98

DEFECT INSPECTED BY TK & JF 3/20/98

30 X 50 COATING REPAIR



TYPE 8 REPAIR

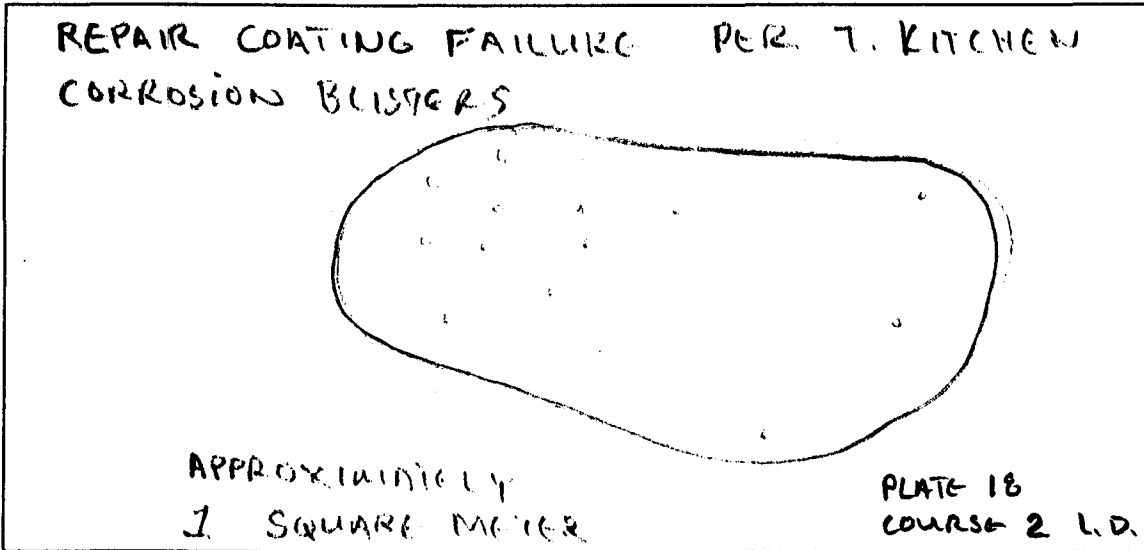
MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #8 AS BUILT DRAWING	
Repair No. : 005	File: 8r005
LOWER DOME	Quadrant: D
Course: 2	PLATE: 18
Drawn by: Tom Kitchen	Date: 5/4/98

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

Repair Record

ADD

Tank No.: 8 Repair No.: 005 Type: 8 Location: D



Sketch of Repair Area

Weld Repair N/A

WPS No.: _____

Welder ID: _____

NDT Performed: Visual _____ Vacuum Box _____ Dye Penetrant _____

Rework Required: _____

Repair Acceptable: _____ Date Accepted: _____

Coating Repair

Coating Type: EPOXY

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

NDT Performed: Visual: DFT: Average DFT: 15 mil → 22 mil.

Rework Required: N/A

Repair Acceptable: John Zahrell Date Accepted: 3-27-98

DEFECT INSPECTED BY TK & JF 3/25/98

30 X 50 COATING REPAIR



TYPE 8 REPAIR

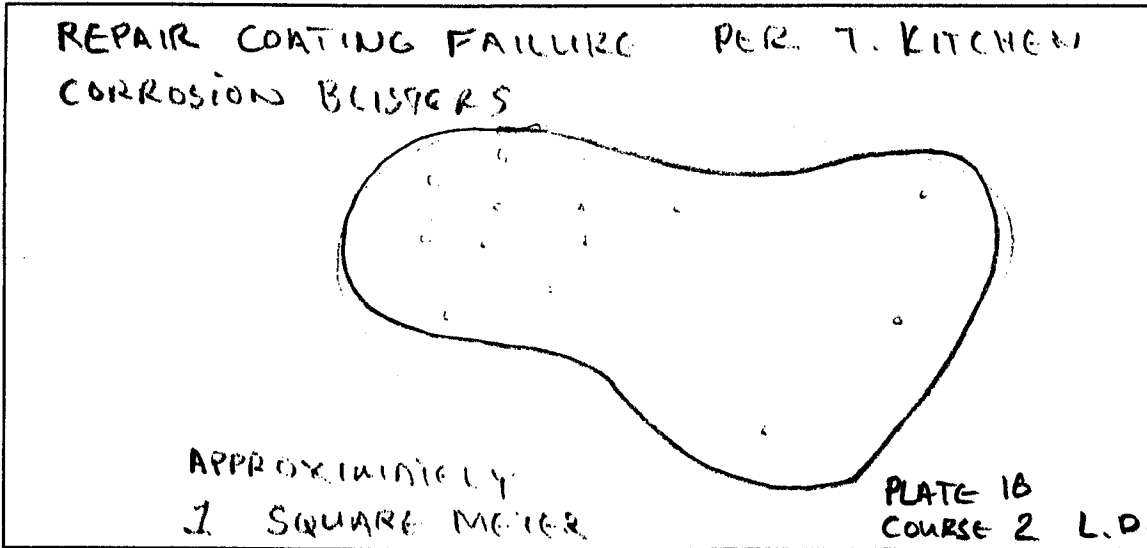
MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #8 AS BUILT DRAWING	
Repair No. : 006	File: 8r006
LOWER DOME	Quadrant: C
Course: 2	PLATE: 14
Drawn by: Tom Kitchen	Date: 5/4/98

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

Repair Record

ADD

Tank No.: 8 Repair No.: 006 Type: 8 Location: D



Sketch of Repair Area

Weld Repair N/A

WPS No.: _____

Welder ID: _____

NDT Performed: Visual _____ Vacuum Box _____ Dye Penetrant _____

Rework Required: _____

Repair Acceptable: _____ Date Accepted: _____

Coating Repair

Coating Type: EPOXY

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

NDT Performed: Visual: DFT: Average DFT: 15 mil. → 22 mil.

Rework Required: N/A

Repair Acceptable: [Signature] Date Accepted: 3-27-98

DEFECT INSPECTED BY TK & JF 3/25/98

30 X 50 COATING REPAIR



TYPE 8 REPAIR

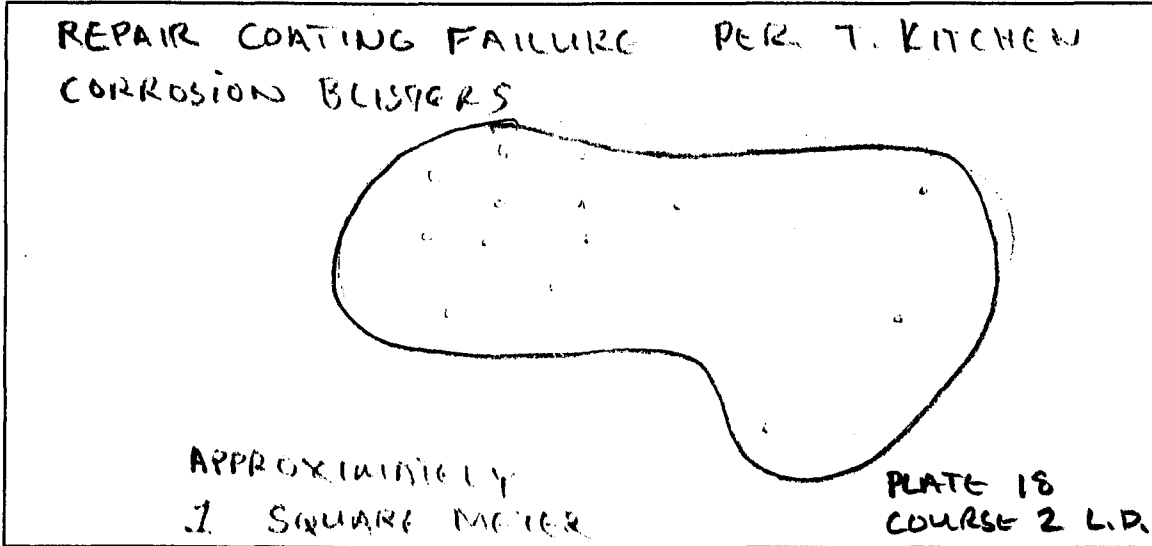
MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #8 AS BUILT DRAWING	
Repair No.: 007	File # 8-007
LOWER DOME	Quadrant: C
Course: 2	PLATE: 14
Drawn by: Tom Kitchen	Date: 5/4/98

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

Repair Record

ADD

Tank No.: 8 Repair No.: 007 Type: 8 Location: D



Sketch of Repair Area

Weld Repair N/A

WPS No.: _____

Welder ID: _____

NDT Performed: Visual _____ Vacuum Box _____ Dye Penetrant _____

Rework Required: _____

Repair Acceptable: _____ Date Accepted: _____

Coating Repair

Coating Type: EPOXY

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

NDT Performed: Visual: DFT: Average DFT: 15 mil - 22 mil

Rework Required: N/A

Repair Acceptable: John Zahell Date Accepted: 3-27-98

DEFECT INSPECTED BY TK & JF 3/25/98

30 X 50 COATING REPAIR



TYPE 8 REPAIR

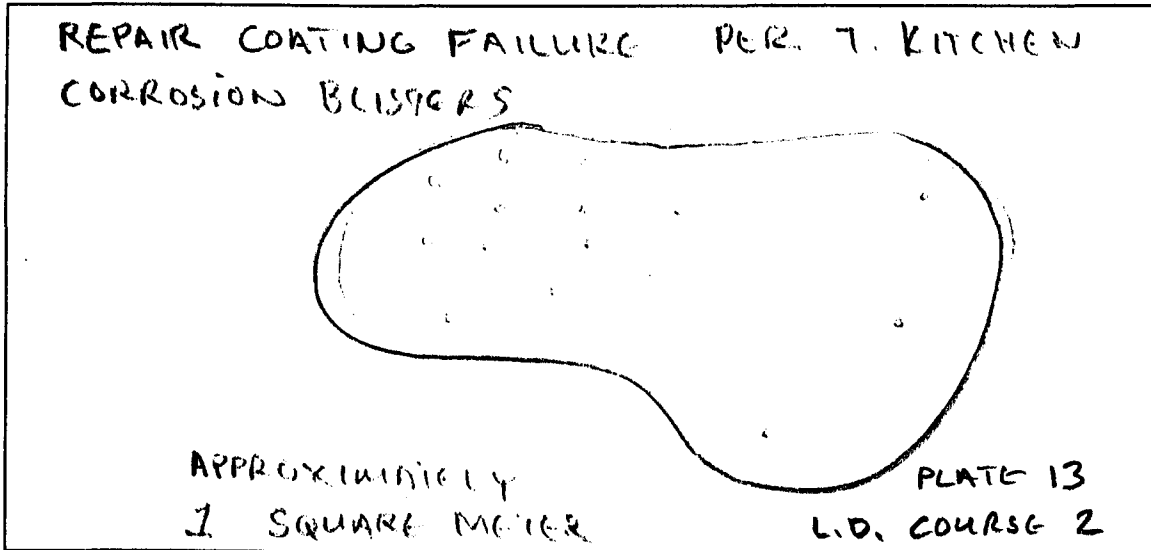
MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #8 AS BUILT DRAWING	
Repair No.: 008	File: 8-008
LOWER DOME	Quadrant: C
Course: 2	PLATE: 13
Drawn by: Tom Kitchen	Date: 5/4/98

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

Repair Record

ADD

Tank No.: 8 Repair No.: 008 Type: 8 Location: B C



Sketch of Repair Area

Weld Repair N/A

WPS No.: _____

Welder ID: _____

NDT Performed: Visual _____ Vacuum Box _____ Dye Penetrant _____

Rework Required: _____

Repair Acceptable: _____ Date Accepted: _____

Coating Repair

Coating Type: EROXY

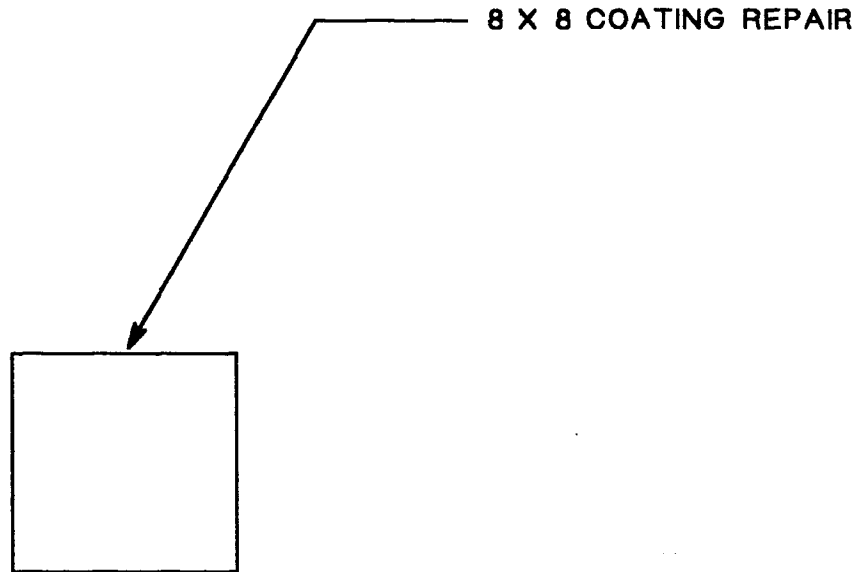
Surface Preparation: Primer Coat: Intermediate Coat: Final Coat:

NDT Performed: Visual: DFT: Average DFT: 15 mil → 22 mil.

Rework Required: N/A

Repair Acceptable: John Zschell Date Accepted: 3-28-98

DEFECT INSPECTED BY TK & JF 3/16/98



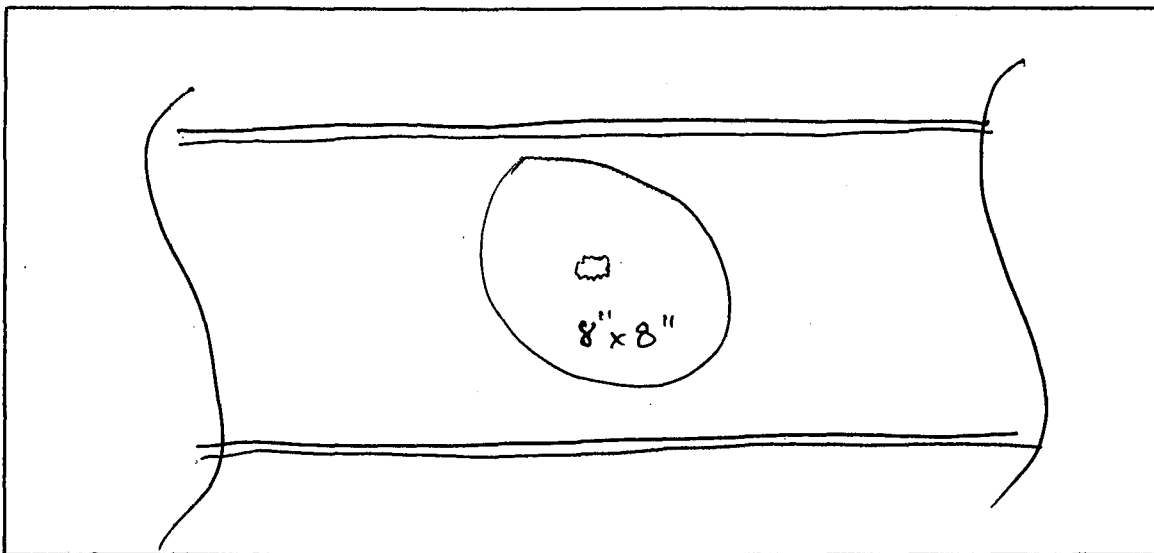
TYPE 8 REPAIR

MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #8 AS BUILT DRAWING	
Repair No. : 009	File: 8-009
UPPER DOME	Quadrant: B
Course: EXTENSION	PLATE: 11
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.: 8 Repair No.: 009 Type: 8 Location: B11-EXT



Sketch of Repair Area

Weld Repair N/A

WPS No.: _____

Welder ID: _____

NDT Performed: Visual _____ Vacuum Box _____ Dye Penetrant _____

Rework Required: _____

Repair Acceptable: _____ Date Accepted: _____

Coating Repair

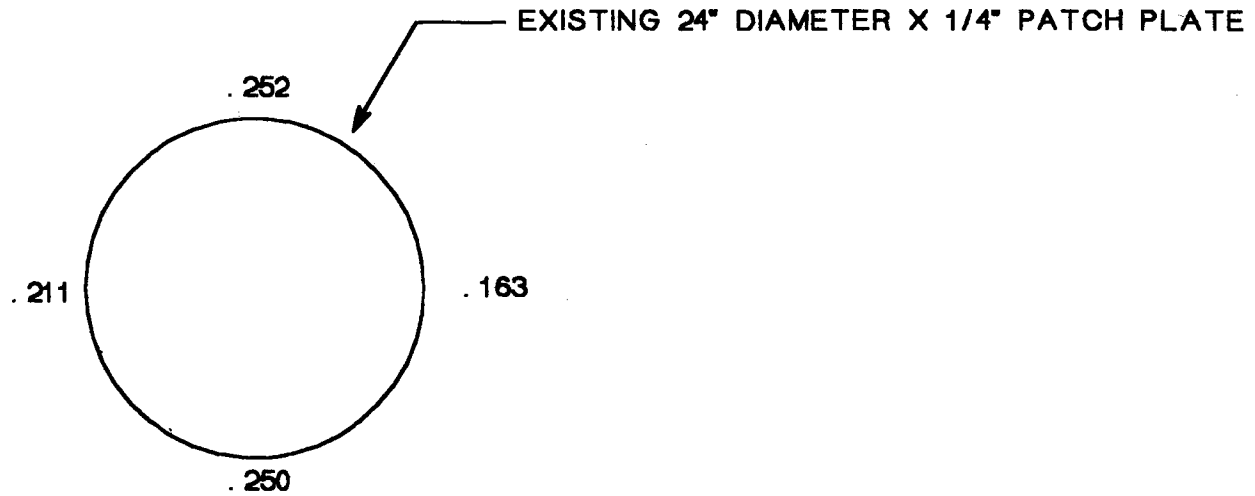
Coating Type: EPoxy

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

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

Rework Required: N/A

Repair Acceptable: John Zurell Date Accepted: 4-13-98



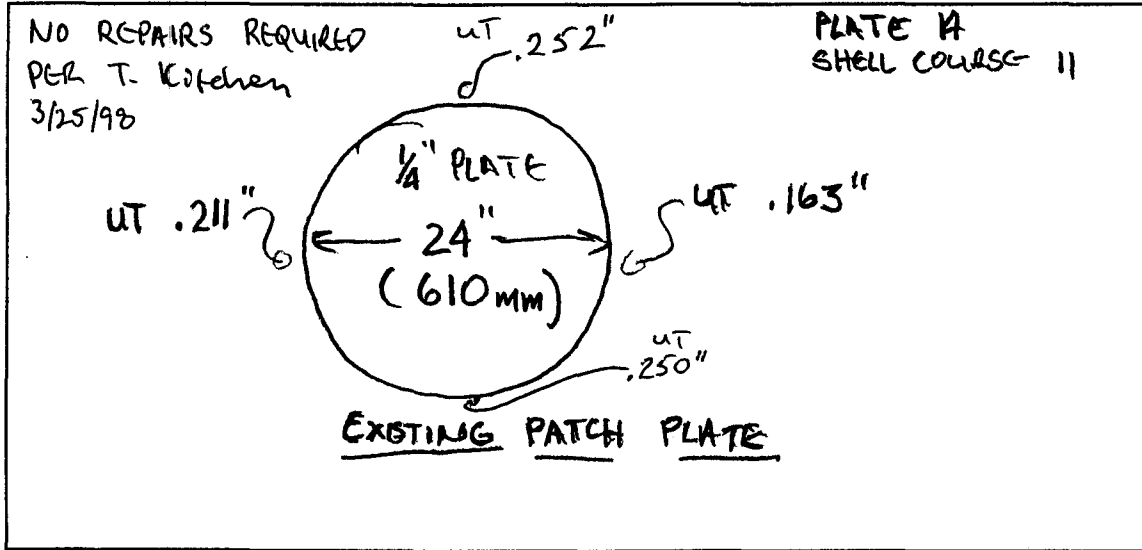
UT READINGS AT EDGE OF PLATE INDICATE GOOD METAL
NO REPAIR NECESSARY

MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #8 AS BUILT DRAWING	
Repair No.: 010	File: 8r010
CYLINDER	Quadrant: C
Course: 11	PLATE: 14
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.: 8 Repair No.: 010 Type: N/A Location: C



Sketch of Repair Area

Weld Repair N/A

WPS No.: _____

Welder ID: _____

NDT Performed: Visual _____ Vacuum Box _____ Dye Penetrant _____

Rework Required: _____

Repair Acceptable: _____ Date Accepted: _____

Coating Repair N/A

Coating Type: _____

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

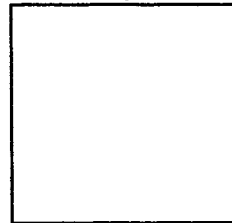
NDT Performed: Visual: _____ DFT: _____ Average DFT: _____

Rework Required: _____

Repair Acceptable: _____ Date Accepted: _____

DEFECT INSPECTED BY TK & JF 3/16/98

8 X 8 COATING REPAIR



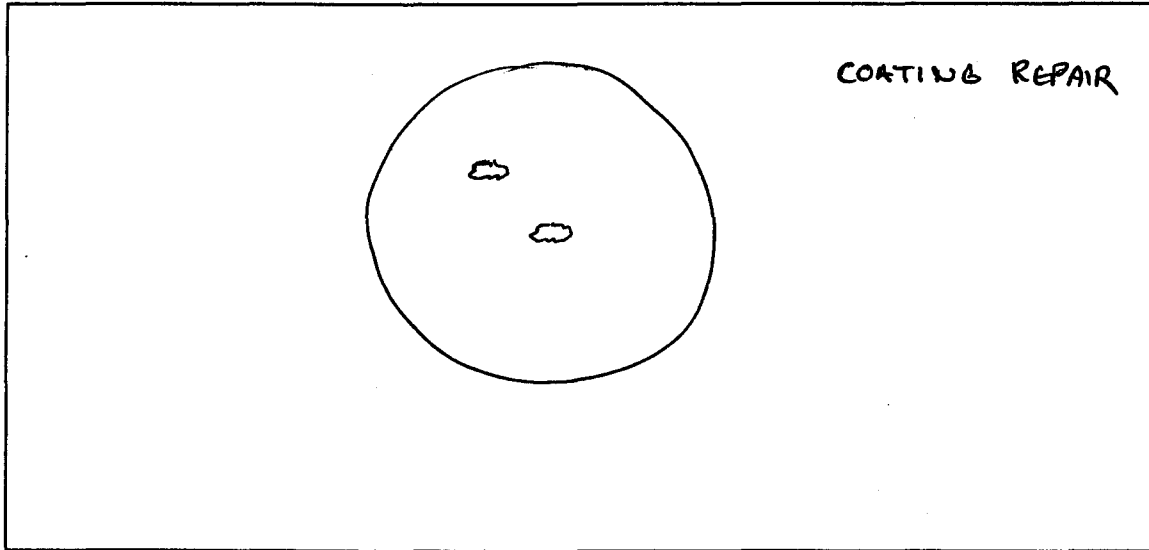
TYPE 8 REPAIR

MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #8 RECOMMENDED REPAIR DRAWING	
Repair No.: 011	File: 8r011
LOWER DOME	Quadrant: A
Course: 2	PLATE: 8
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.: 8 Repair No.: ADD 011 Type: Ø Location: A2-08



Sketch of Repair Area

Weld Repair N/A

WPS No.: _____

Welder ID: _____

NDT Performed: Visual _____ Vacuum Box _____ Dye Penetrant _____

Rework Required: _____

Repair Acceptable: _____ Date Accepted: _____

Coating Repair

Coating Type: EPOXY

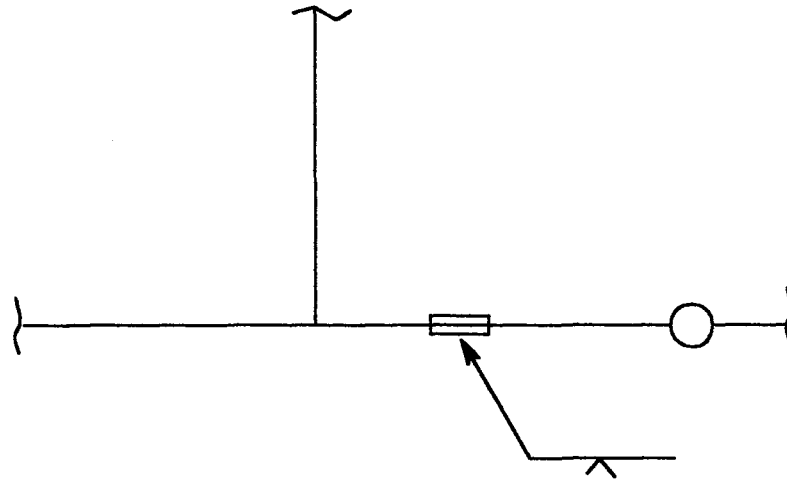
Surface Preparation: Primer Coat: Intermediate Coat: Final Coat:

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

Rework Required: N/A

Repair Acceptable: John Zichell Date Accepted: 4-13-98

DEFECT INSPECTED BY TK & JF 3/16/98



TYPE 9 REPAIR

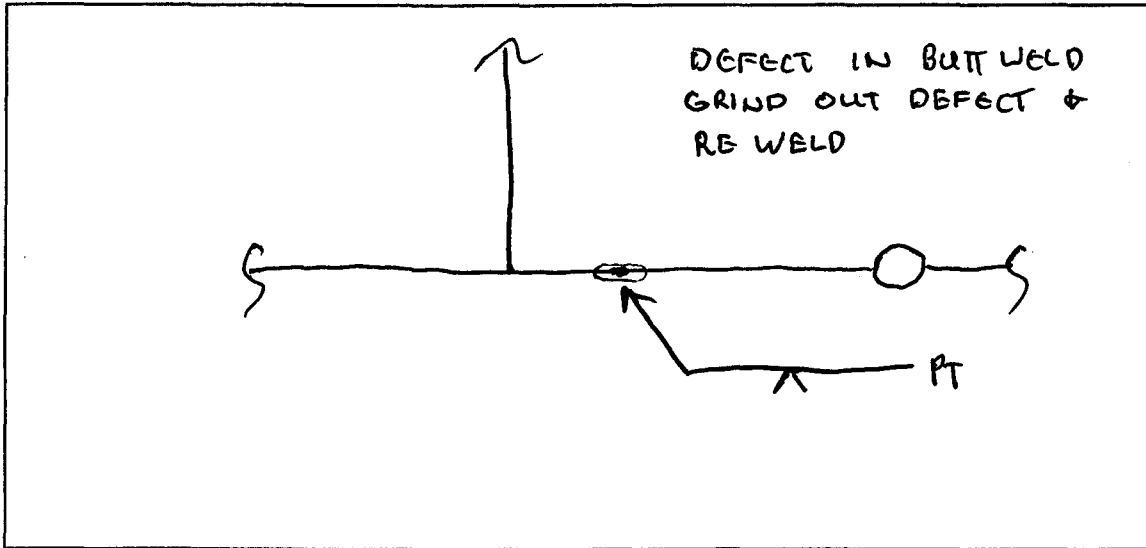
MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #8 RECOMMENDED REPAIR DRAWING	
Repair No.: 012	File: 8r012
CYLINDER	Quadrant: B
Course: 9	PLATE: 17
Drawn by: Tom Kitchen	Date: 5/4/98

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

Repair Record

ADD

Tank No.: 8 Repair No.: 012 Type: 9 Location: B9-17



Sketch of Repair Area

Weld Repair

WPS No.: SM 1.1-1

Welder ID: John Walsh

NDT Performed: Visual Vacuum Box Dye Penetrant

Rework Required: N/A

Repair Acceptable: John Zahrell Date Accepted: 4-6-98

Coating Repair

Coating Type: EPOXY

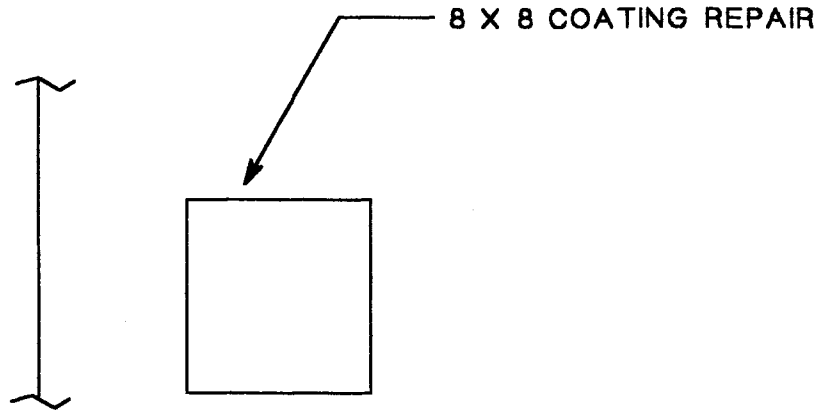
Surface Preparation: Primer Coat: Intermediate Coat: Final Coat:

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

Rework Required: N/A

Repair Acceptable: John Zahrell Date Accepted: 4-13-98

DEFECT INSPECTED BY TK & JF 3/16/98



TYPE 9 REPAIR

MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #8 RECOMMENDED REPAIR DRAWING	
Repair No.: 013	File: 8r013
LOWER DOME	Quadrant: B
Course: 3	PLATE: 11
Drawn by: Tom Kitchen	Date: 5/4/98