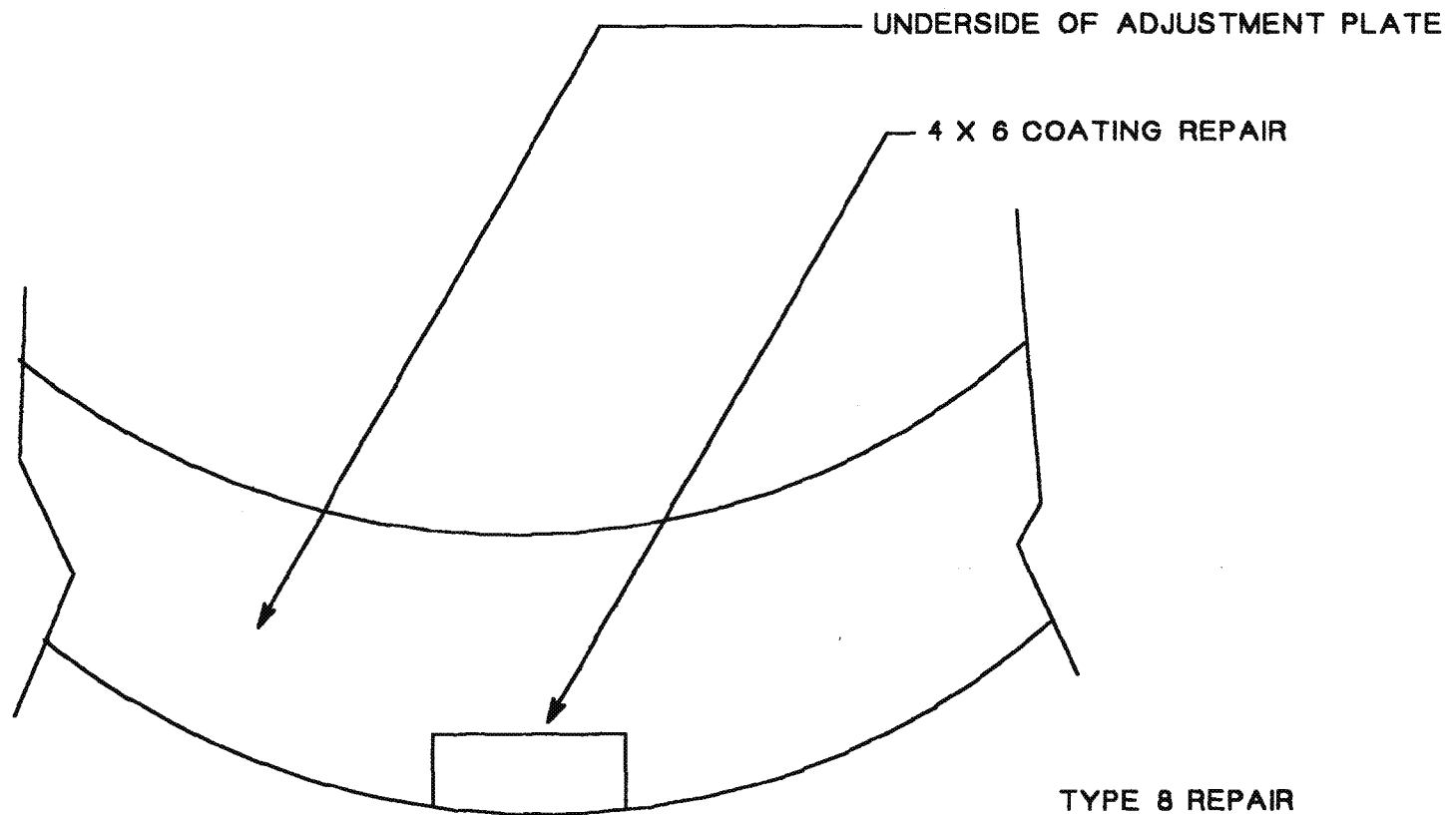


**Section 9**  
**RECOMMENDED REPAIRS**

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



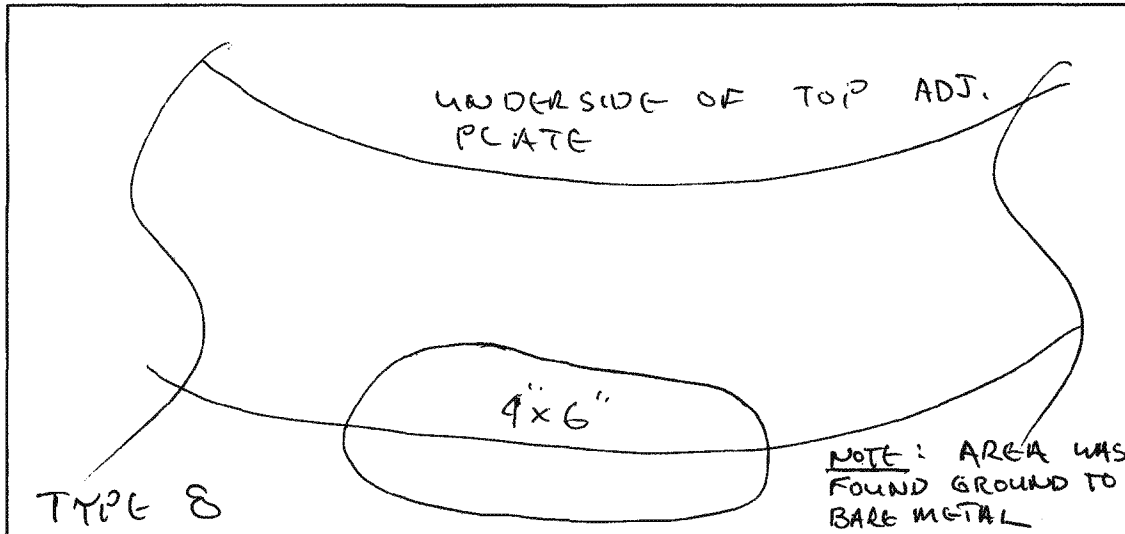
MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #8 AS BUILT DRAWINGS	
Repair No.: 001	File: 8R001
UPPER DOME	Quadrant: D
Course: EXTENSION	PLATE: 22
Drawn by: Tom Kitchen	Date: 5/4/98

**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.: 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

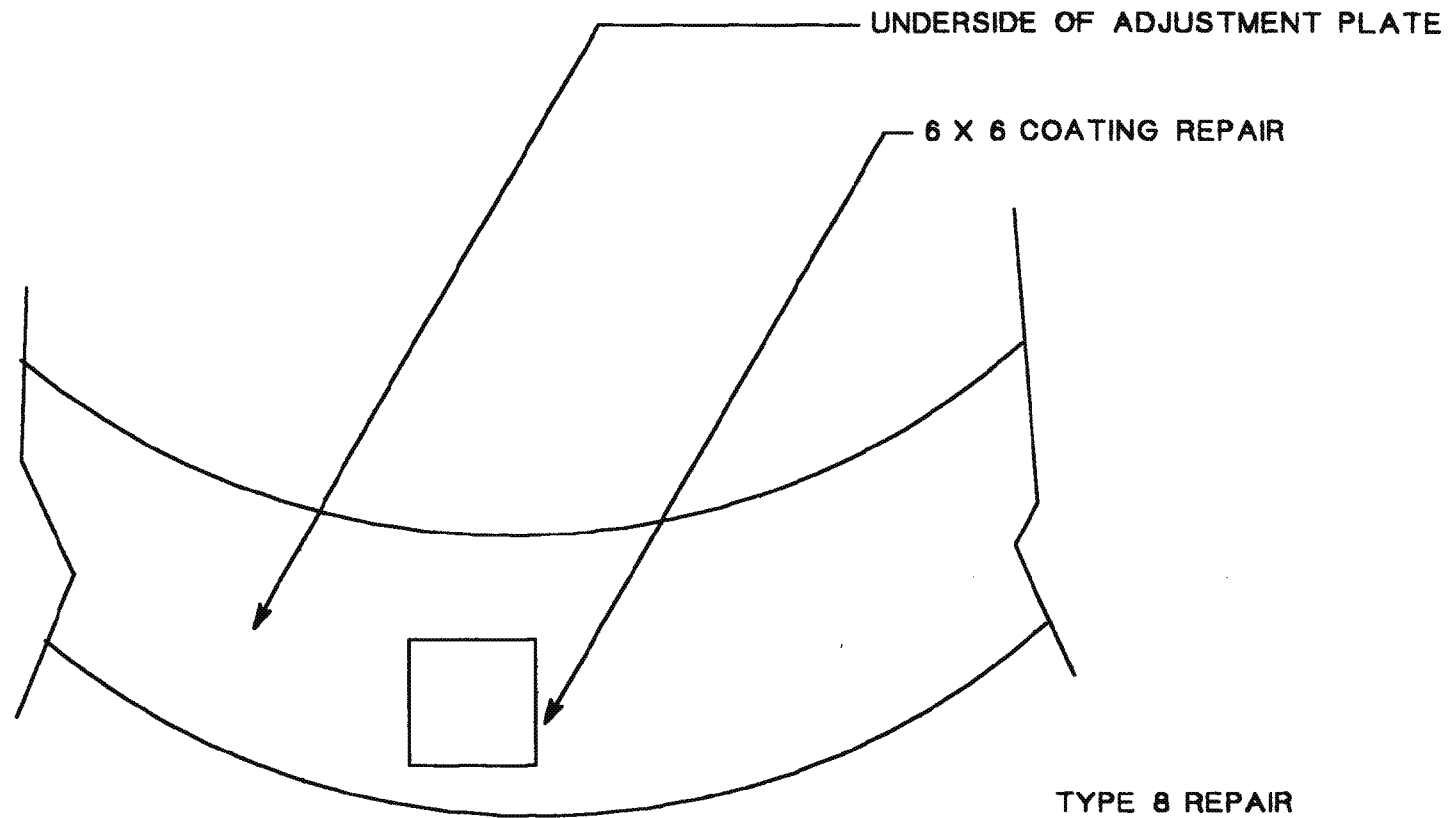
Surface Preparation: ✓ Primer Coat: ✓ Intermediate Coat: ✓ Final Coat: ✓

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



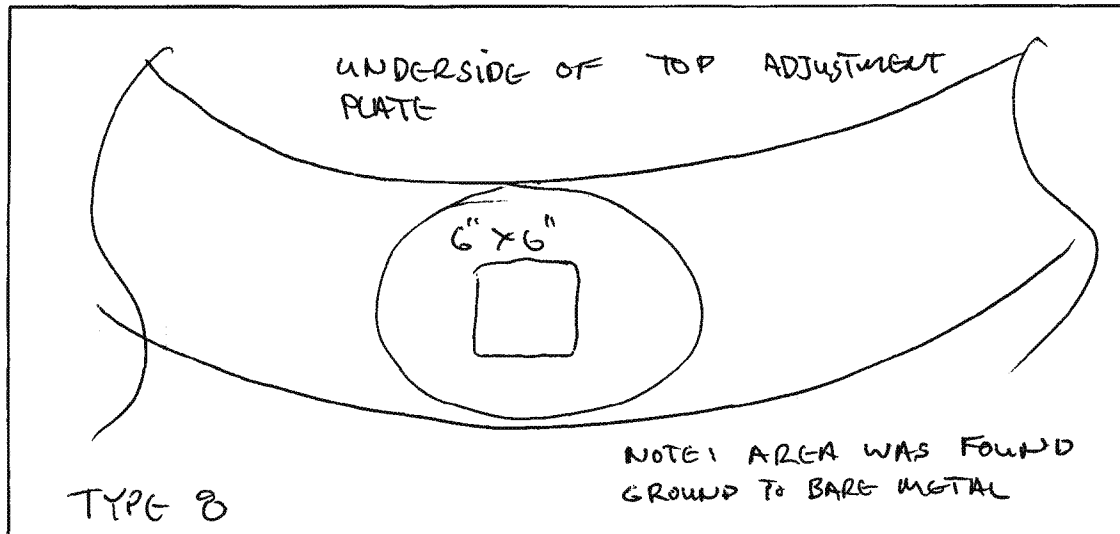
MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #8 AS BUILT DRAWINGS	
Repair No.: 002	File: 8R001
UPPER DOME	Quadrant: C
Course: EXTENSION	PLATE: 14
Drawn by: Tom Kitchen	Date: 5/4/98

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

**Repair Record**

ADD

Tank No.: 8 Repair No.: 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

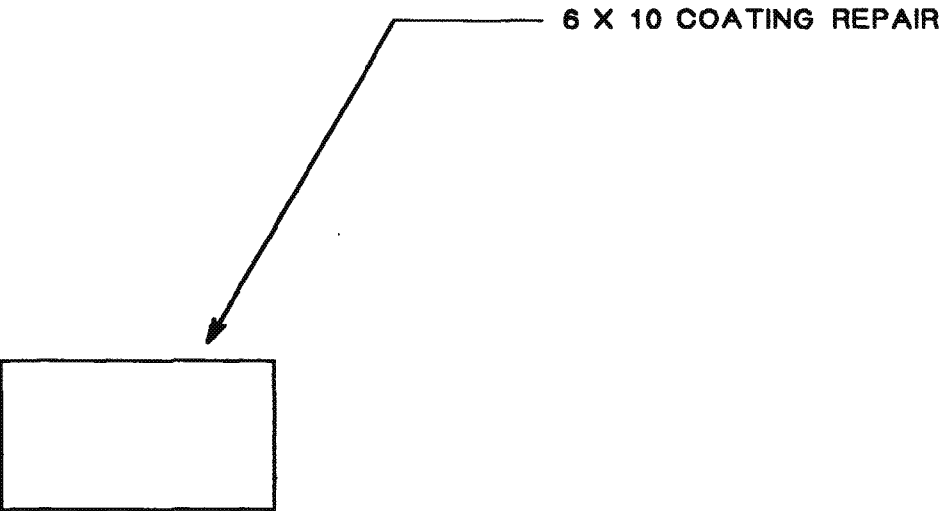
Coating Type: Epoxy

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 Zurell Date Accepted: 3-24-98



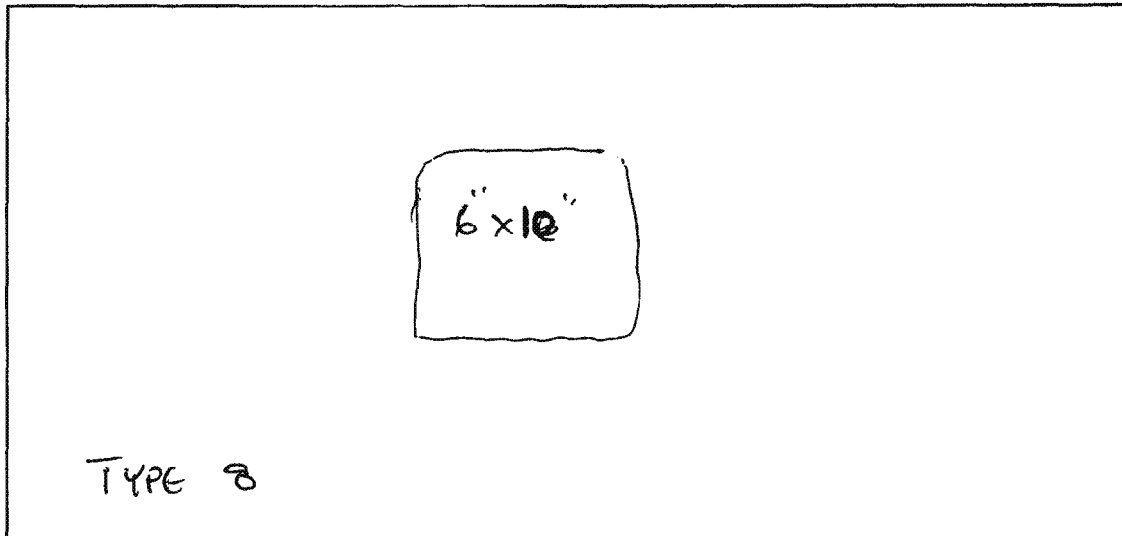
TYPE 8 REPAIR

MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #8 AS BUILT DRAWING	
Repair No.: 003	File #: 003
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

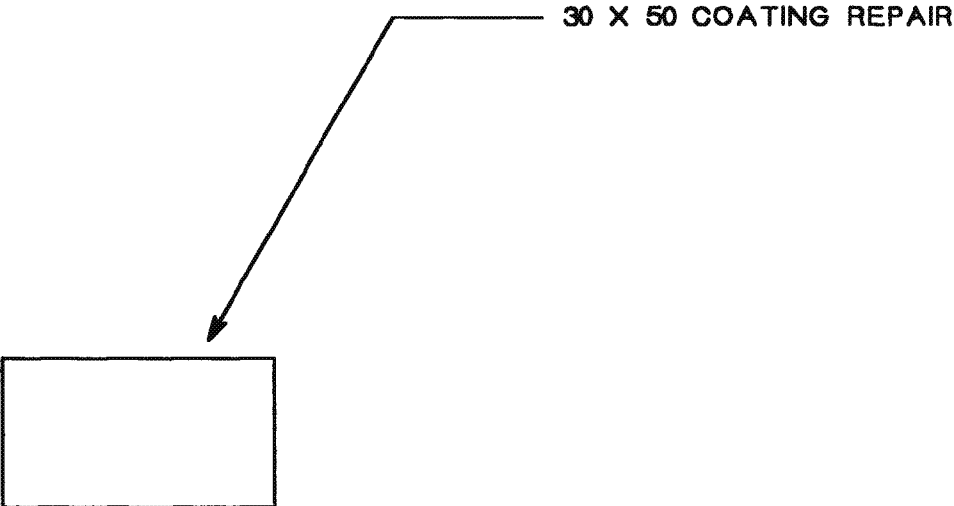
Surface Preparation: ✓ Primer Coat: ✓ Intermediate Coat: ✓ Final Coat: ✓

NDT Performed: Visual: ✓ DFT: ✓ Average DFT: ≥ 8 mils  
≤ 15 mils

Rework Required: N/A

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





TYPE 8 REPAIR


MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #8 AS BUILT DRAWING	
Repair No. : 004	File # 8004
LOWER DOME	Quadrant: <del>B</del> ← OK
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

REPAIR COATING FAILURE PER T. KITCHEN CORROSION BLISTERS	
	
APPROXIMATELY 1 SQUARE METER	PLATE 18 COURSE 2 L.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

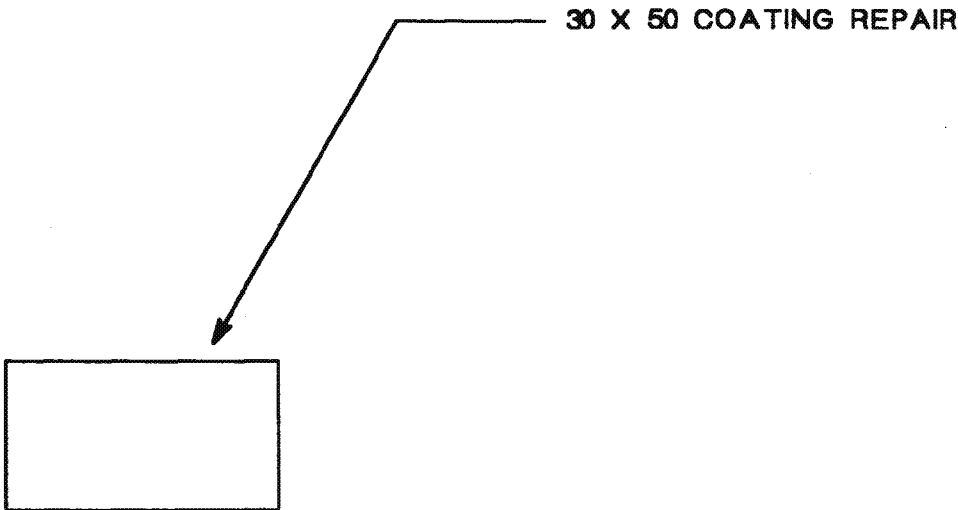
Coating Type: EPOXY

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 Zerk Date Accepted: 3-27-98



TYPE 8 REPAIR

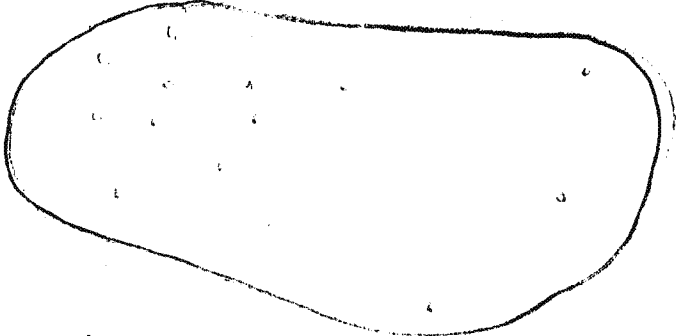
MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #8 AS BUILT DRAWING	
Repair No.: 005	File #: 8-005
LOWER DOME	Quadrant: D
Course: 2	PLATE: 18
Drawn by: Tom Kitchen	Date: 5/4/98

**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

REPAIR COATING FAILURE PER T. KITCHEN CORROSION BLISTERS	
	
APPROXIMATELY 1 SQUARE METER	PLATE 18 COURSE 2 L.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

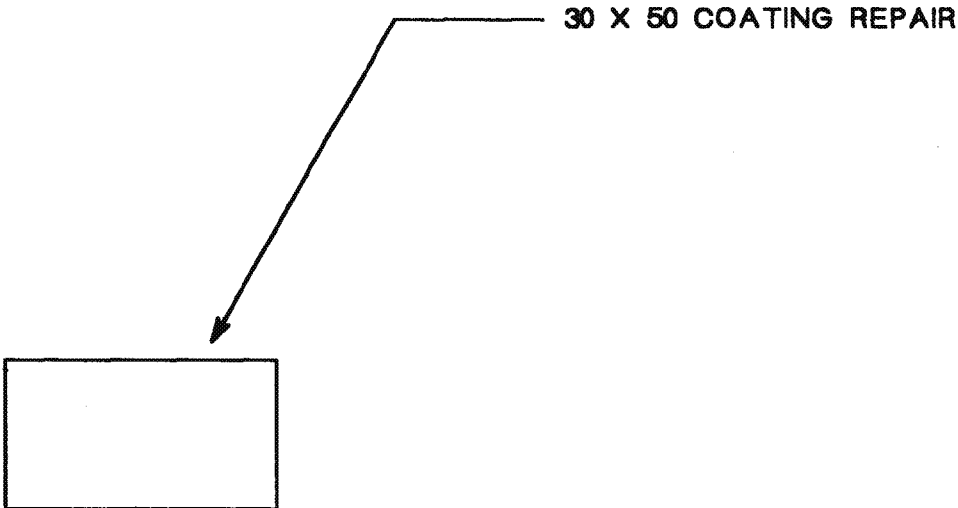
Coating Type: EPOXY

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



TYPE 8 REPAIR

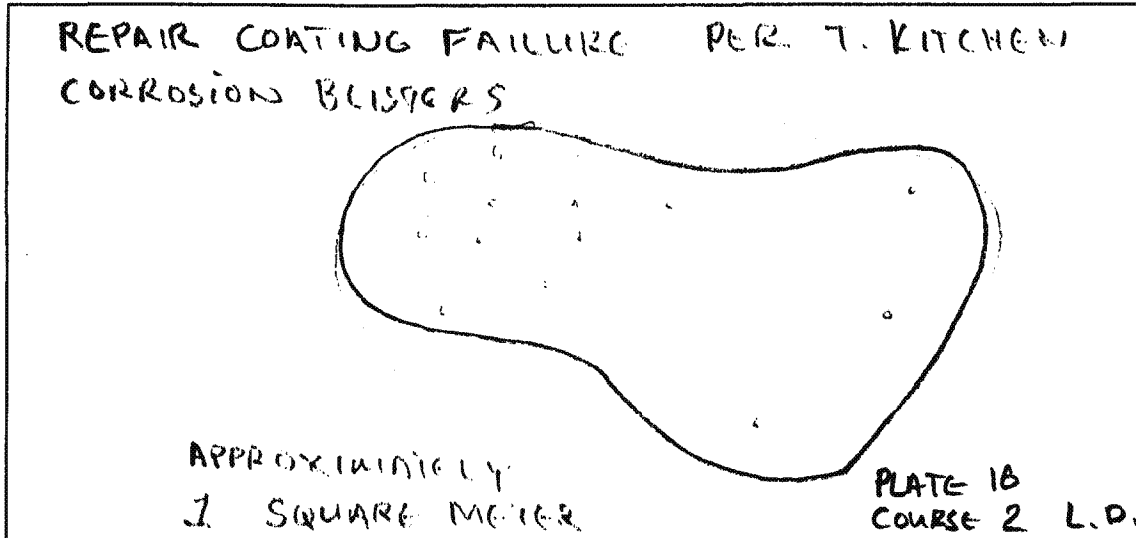
MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #8 AS BUILT DRAWING	
Repair No. 006	File # 8r006
LOWER DOME	Quadrant C
Course 2	PLATE 14
Drawn by Tom Kitchen	Date 5/4/98

**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

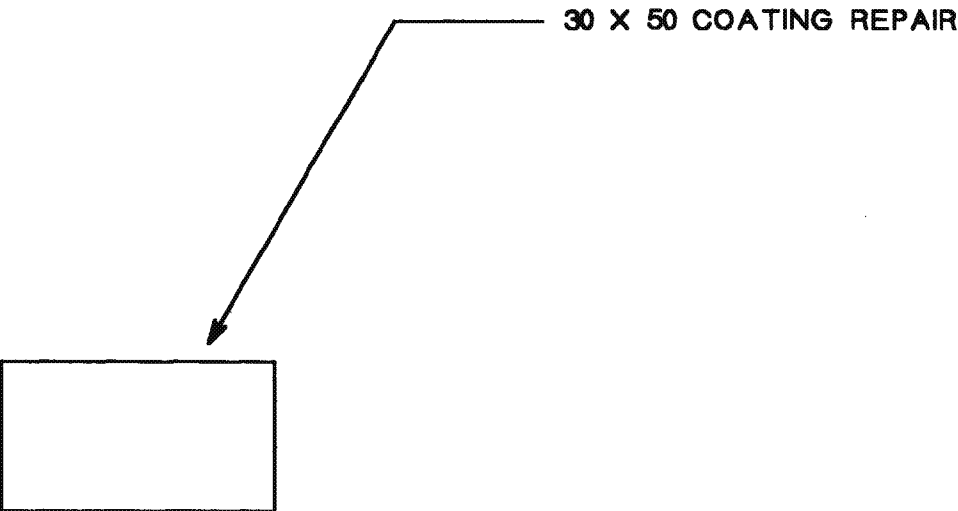
Coating Type: EPOXY

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

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

Rework Required: N/A

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



TYPE 8 REPAIR

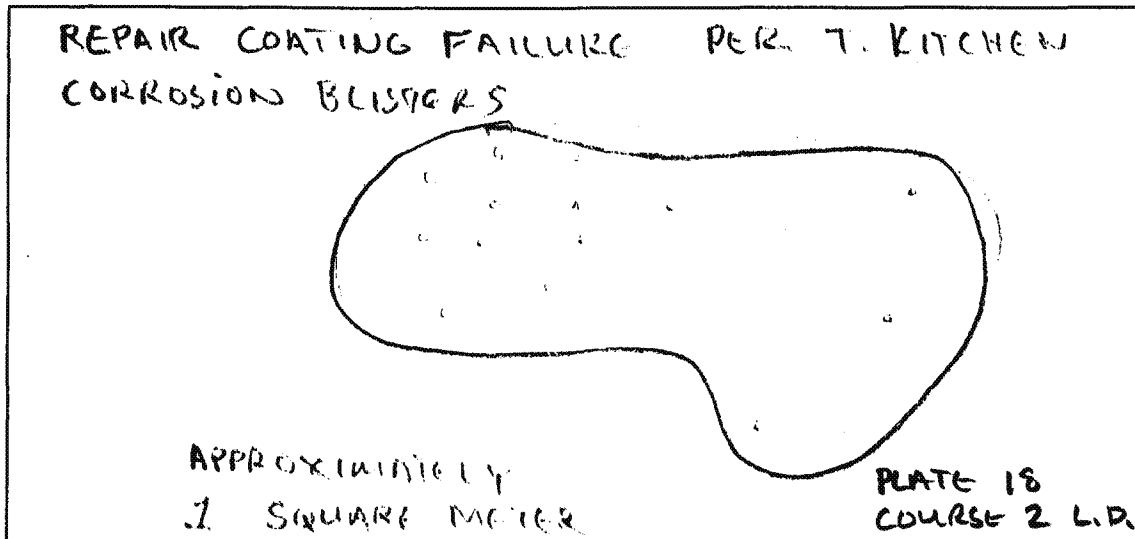
MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #8 AS BUILT DRAWING	
Repair No.: 007	File #: 007
LOWER DOME	Quadrant: C
Course: 2	PLATE: 14
Drawn by: Tom Kitchen	Date: 5/4/98

**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 Zehell Date Accepted: 3-27-98



DEFECT INSPECTED BY TK & JF 3/25/98

30 X 50 COATING REPAIR



TYPE B REPAIR

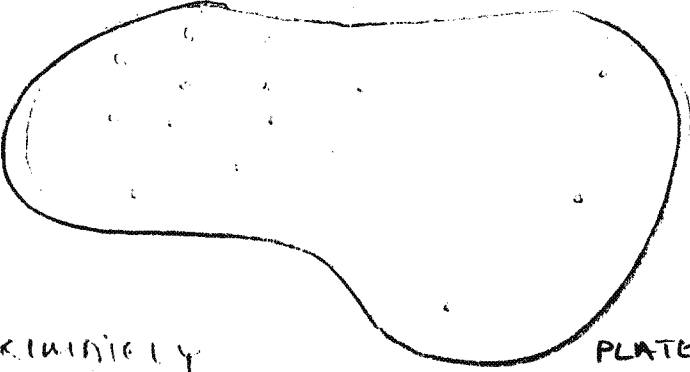
MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #8 AS BUILT DRAWING	
Repair No.: 008	File #: 8-008
LOWER DOME	Quadrant: C
Course: 2	PLATE: 13
Drawn by: Tom Kitchen	Date: 5/4/98

**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

REPAIR COATING FAILURE PER T. KITCHEN CORROSION BLISTERS	
	
APPROXIMATELY 1 SQUARE METER	PLATE 13 L.D. COURSE 2

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: EPXY

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

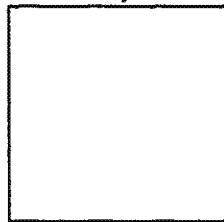
NDT Performed: Visual: ☒ DFT: ☒ Average DFT: 15 mil. → 22 mil.

Rework Required: N/A

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

DEFECT INSPECTED BY TK & JF 3/16/98

8 X 8 COATING REPAIR



TYPE 8 REPAIR

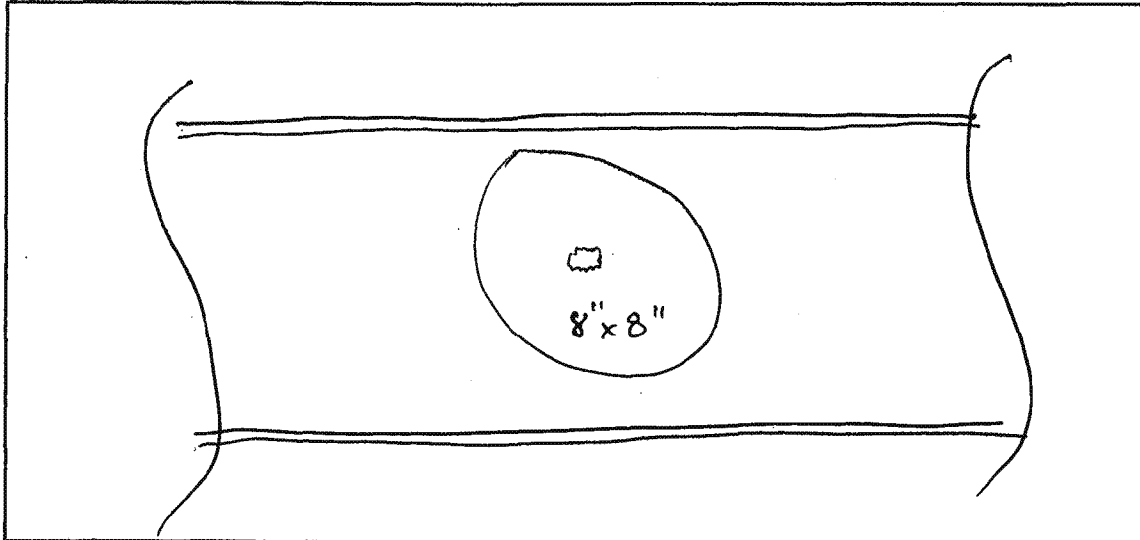
MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #8 AS BUILT DRAWING	
Repair No.: 009	File: 8r009
UPPER DOME	Quadrant: B
Course: EXTENSION	PLATE: 11
Drawn by: Tom Kitchen	Date: 5/4/98

RDHLC00004783

**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

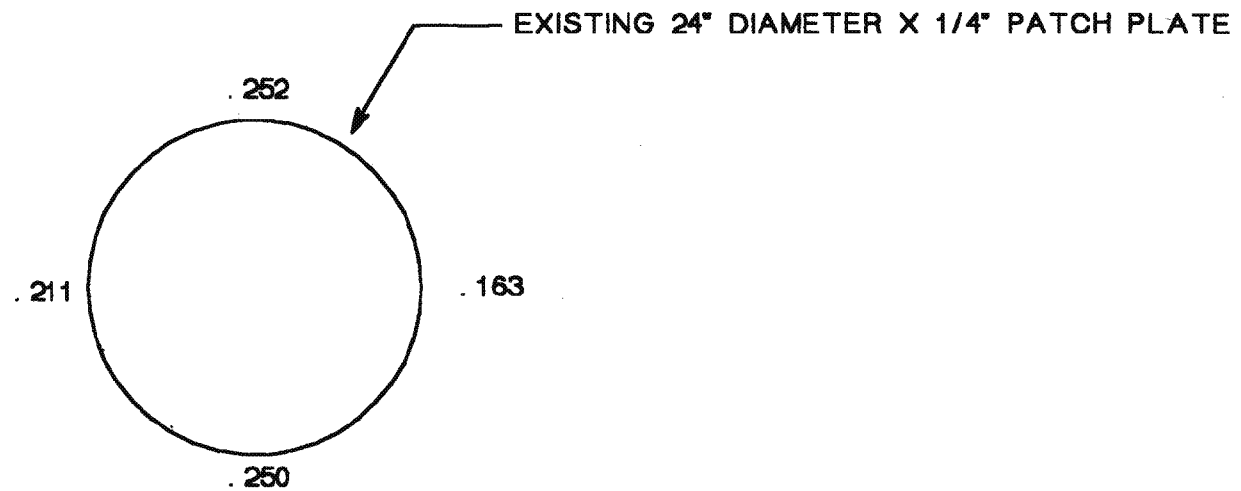
Coating Type: EPoxy

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

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

Rework Required: N/A

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



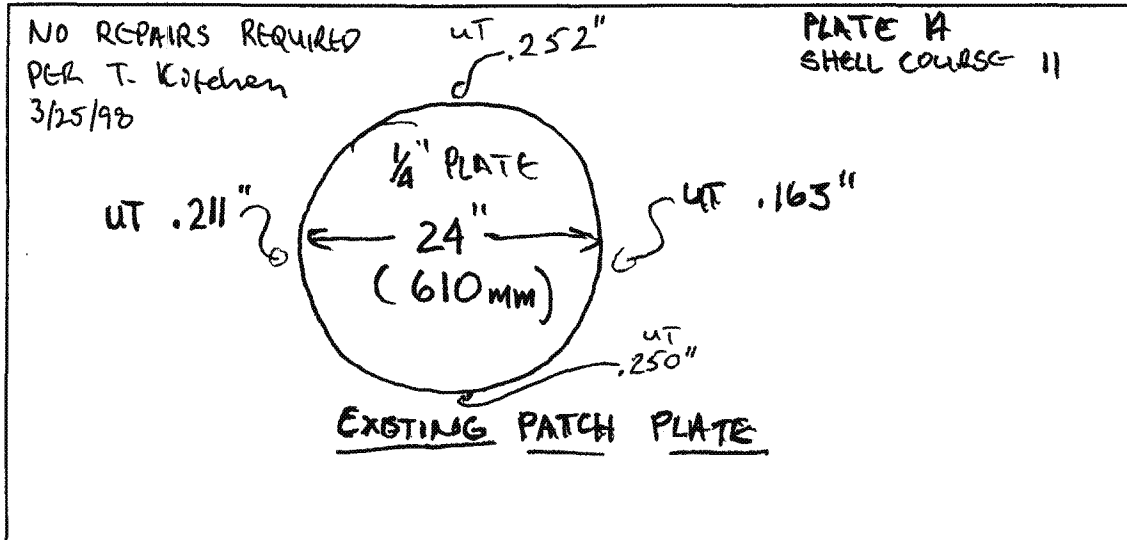
UT READINGS AT EDGE OF PLATE INDICATE GOOD METAL  
NO REPAIR NECESSARY

MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #8 AS BUILT DRAWING	
Repair No. 010	File # 8010
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

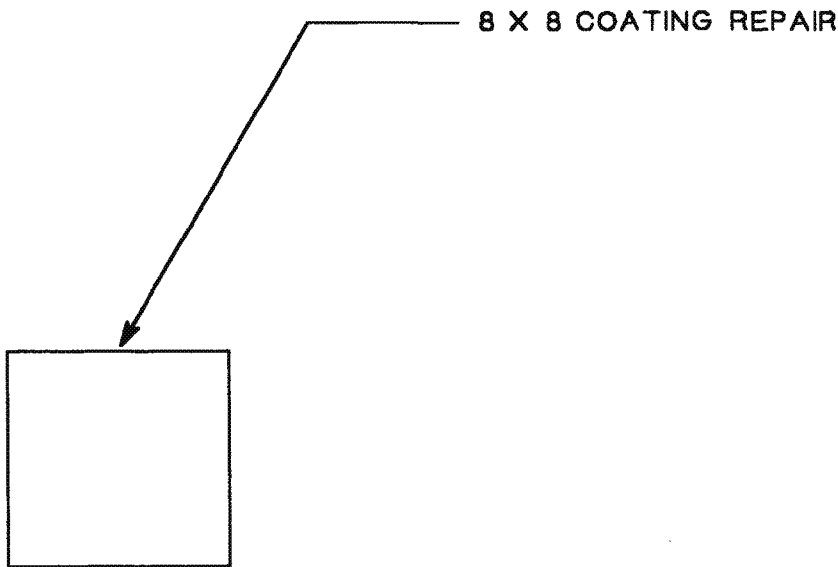
Coating Type: \_\_\_\_\_

Surface Preparation: \_\_\_\_\_ Primer Coat: \_\_\_\_\_ Intermediate Coat: \_\_\_\_\_ Final Coat: \_\_\_\_\_

NDT Performed: Visual: \_\_\_\_\_ DFT: \_\_\_\_\_ Average DFT: \_\_\_\_\_

Rework Required: \_\_\_\_\_

Repair Acceptable: \_\_\_\_\_ Date Accepted: \_\_\_\_\_



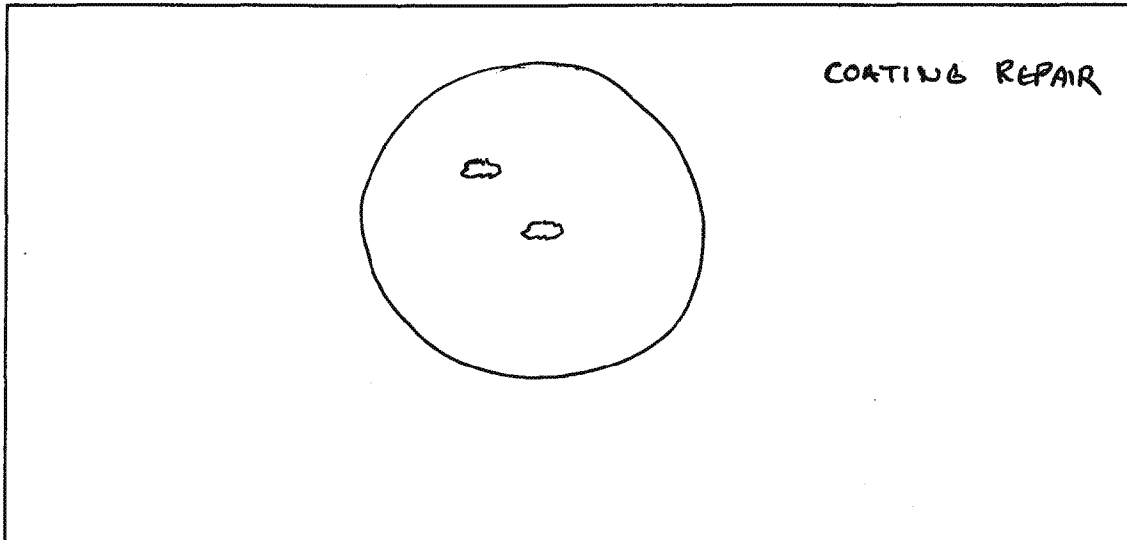
TYPE 8 REPAIR

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: 8 Location: AZ-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

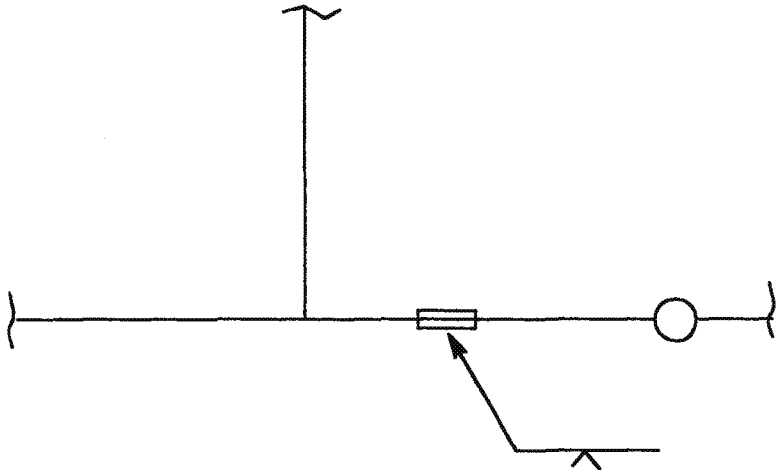
Surface Preparation: ✓ Primer Coat: ✓ Intermediate Coat: ✓ Final Coat: ✓

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

Rework Required: N/A

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





TYPE 9 REPAIR

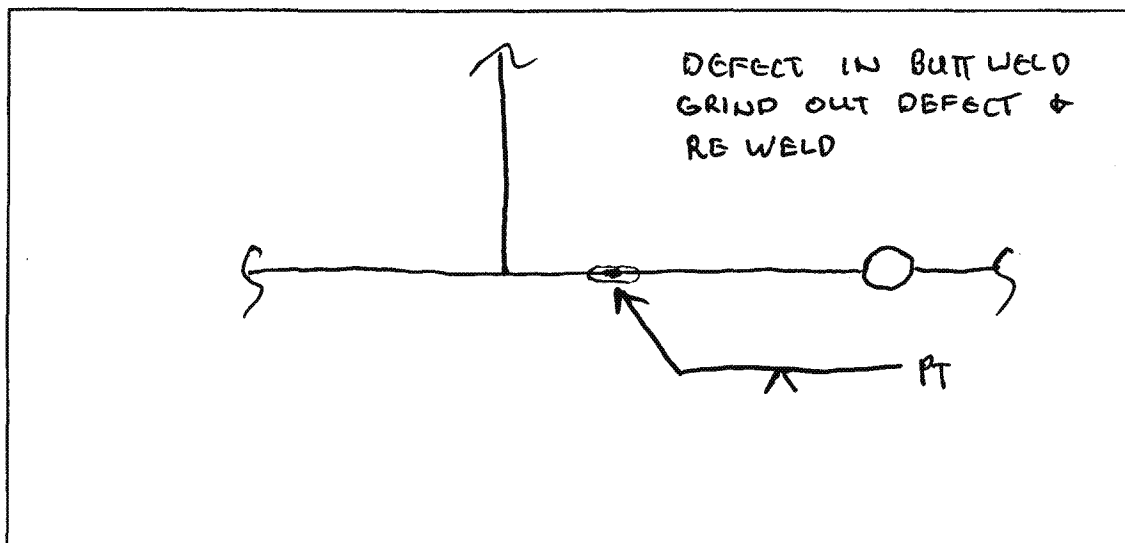
MID ATLANTIC ENVIRONMENTAL	
EMERGENCY REPAIRS FOR RED HILL TANKS	
Tank #8 RECOMMENDED REPAIR DRAWING	
Repair No.: 012	File: 8r012
CYLINDER	Quadrant: B
Course: 9	PLATE: 17
Drawn by: Tom Kitchen	Date: 5/4/98

**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 Zschell Date Accepted: 4-6-98

Coating Repair

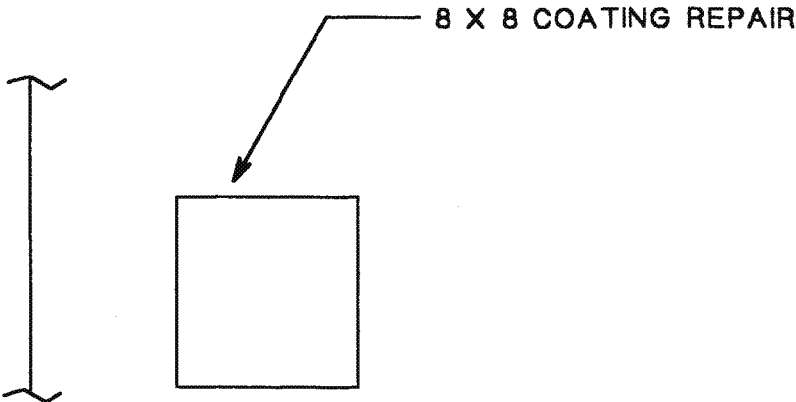
Coating Type: EPOXY

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

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

Rework Required: N/A

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



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