**CONSULTING ENGINEERS, INC.**
*Civil Infrastructure Preservation*

03-063

May 10, 2004

Adam Harvey, P.E.
URS Corporation
2520 Venture Oaks Way, Suite 250
Sacramento, CA 95833

SUBJECT: Coating Inspection Report for US Filter EPA Carbon Filter Vessels

Dear Adam,

V&A Consulting Engineers (V&A) has completed the inspection for the internal lining of eight (8) of the 24 EPA vessels at the U.S. Filter facility in Red Bluff, CA. A copy of the field inspector's notes has been sent separately. The following is a summary of the inspection reports for the vessel inspections. All tanks were inspected in accordance with the manufacturer's recommendations.

Vessels Inspected:

160052001-1 (National Board No. 125), 160052501-1 (National Board No. 169),
160051801-2 (National Board No. 122), 160051901-2 (National Board No. 124),
160051801-1 (National Board No. 121), 160051901-1 (National Board No. 123),
160052501-2 (National Board No. 170), 160052001-2 (National Board No. unknown)

Date of Coating Inspection: 04/28/2004 - 04/30/2004
Inspector: Craig Williams
Coating Inspection Summary:
Dry film thickness measurements were recorded, per SSPC-PA 2 guidelines, and mapped throughout the vessels. The inspector located and marked where the film thickness was too low or too high. Spark testing was conducted and holidays were identified and marked for repair.

An average of 19 holidays was detected per tank. As many as 48 holidays and as few as 10 holidays were detected per tank (see inspector notes for details). All internal nozzles could not be inspected due to filters and piping already installed within the vessels.



V&A CONSULTING ENGINEERS, INC.
Lake Merritt Plaza, 1999 Harrison Street, Suite 975, Oakland, CA 94612 | Tel. (510) 903-6600, Fax (510) 903-6601 | www.vaengr.com

Holidays and low film thickness areas that were marked for repair should be coated with a vinyl ester to the appropriate thickness recommended by the manufacturer. The locations where coating has been applied in excess should be sanded down to meet the manufacturer's required thickness.

Please call if you have any questions or comments.

Sincerely,
**V&A CONSULTING ENGINEERS**
*Civil Infrastructure Preservation*

Glenn Willson, P.E.
Manager Engineering Services

**Bay Area Coating Consultant Services, Inc. Confined Space Entry Permit**

***Section 1*** *Permit is valid for one shift only. Used permits are to be kept at site until job's over, then returned to job file.*

**DATE:** 4/29/04 **SHIFT START:** 0030 **SHIFT ENDS:** _____

**SITE LOCATION & NAME:** US Filter, Red Bluff, Ca

**PURPOSE OF ENTRY:** Coating Inspection

***Section 2*** **Highlight expected hazards listed below, and/or describe other hazard**

X Oxygen Deficiency (< 19.5%)

_____ Oxygen Content > 23.5%

_____ Materials Harmful to Skin

_____ Flammable gases/vapors > 10% of Lower Explosive Limit

_____ Toxic Gases/Vapors > PEL - If so, list material(s) below in section three

_____ Engulfment Hazard

_____ Mechanical Hazards

_____ Electrical Hazard

Other HEAT

***Section 3*** **Highlighted controls listed below are to be implemented prior to entry.**

**SITE PREPARATION CONTROLS**

| CONTROLS IN PLACE ? | DATE | BY |
|---|---|---|
| Locked out/Tagged out | N/A | |
| Lines broken and capped | N/A | |
| Outside Entrance Secure | YES | CW |
| Cln'd Drained & Purged | N/A | |
| Ventilation's Operating | N/A | |
| Emergency Team Ready | N/A | |
| Employees Trained | YES | CW |

**PPE AND OTHER PERSONNEL CONTROLS**

| REQUIREMENTS | |
|---|---|
| Full Body Harnesses | N/A |
| Extraction Equipment | N/A |
| Lifelines | N/A |
| Explosion Proof Lighting | N/A |
| Protective Clothing | N/A |
| Communication | ~~N/A~~ YES |
| Noise Protection | N/A |

**OTHER:** Possible High Heat

***Section 4*** **Sniff for gases checked & monitor for PEL's**

| | MONITORING TEST | ENTRY OK AT | RECORD RESULTS AND TIME | | | | COMMENTS |
|---|---|---|---|---|---|---|---|
| X | Percent of Oxygen | 19.5 TO 23.5 % | ✓ | | | | All ok |
| X | Lower Flammable Limit | Under 10% | 20.19 | | | | |
| | Carbon Monoxide | 25ppm | | | | | |
| | > PEL for | | | | | | |
| | > PEL for | | | | | | |
| | Other | | | | | | |

**NOTES:**

**Gas Tester Name:** _____ **Instrument Used & S/N** _____

***Section 5***

| Confined Space Entrants | Entry Time | Exit Time | Emergency Nos. | Other Information |
|---|---|---|---|---|
| Craig Williams | 0040 | 0255 | 911 | |
| Craig Williams | 0949 | 1153 | " | |
| Craig Williams | 1300 | 1417 | " | |
| Craig Williams | 1700 | 1916 | " | |
| Craig Williams | 1920 | 2130 | " | |
| Craig Williams | 2135 | 2245 | " | |

**Entry Supervisor Authorization:** By my signature below I certify that all permit conditions are in place and the space is safe for entry.

**Bay Area Coating Consultant Services, Inc. Confined Space Entry Permit**

***Section 1*** *Permit is valid for one shift only. Used permits are to be kept at site until job's over, then returned to job file.*

**DATE:** 4/30/04 **SHIFT START :** 10:45 Am **SHIFT ENDS:** 12:20 Pm

**SITE LOCATION & NAME:** _____

**PURPOSE OF ENTRY:** _____

***Section 2*** **Highlight expected hazards listed below, and/or describe other hazard**

X Oxygen Deficiency (< 19.5%)

_____ Oxygen Content > 23.5%

_____ Materials Harmful to Skin

_____ Flammable gases/vapors > 10% of Lower Explosive Limit

_____ Toxic Gases/Vapors > PEL - If so, list material(s) below in section three

_____ Engulfment Hazard

_____ Mechanical Hazards

_____ Electrical Hazard

Other Heat

***Section 3*** **Highlighted controls listed below are to be implemented prior to entry.**

**SITE PREPARATION CONTROLS**

| CONTROLS IN PLACE ? | DATE | BY |
|---|---|---|
| Locked out/Tagged out | N/A | |
| Lines broken and capped | N/A | |
| Outside Entrance Secure | yes | CW |
| Cln'd Drained & Purged | N/A | |
| Ventilation's Operating | N/A | |
| Emergency Team Ready | N/A | |
| Employees Trained | yes | CW |

**PPE AND OTHER PERSONNEL CONTROLS**

| REQUIREMENTS | |
|---|---|
| Full Body Harnesses | N/A |
| Extraction Equipment | N/A |
| Lifelines | N/A |
| Explosion Proof Lighting | N/A |
| Protective Clothing | N/A |
| Communication | yes |
| Noise Protection | N/A |

OTHER: Excessive heat inside vessels

***Section 4*** **Sniff for gases checked & monitor for PEL's**

| | MONITORING TEST | ENTRY OK AT | RECORD RESULTS AND TIME | | | | COMMENTS |
|---|---|---|---|---|---|---|---|
| X | Percent of Oxygen | 19.5 TO 23.5 % | 20.9 | | | | |
| X | Lower Flammable Limit | Under 10% | | | | | |
| | Carbon Monoxide | 25ppm | | | | | |
| | > PEL for | | | | | | |
| | > PEL for | | | | | | |
| | Other | | | | | | |

**NOTES:**

**Gas Tester Name:** | **Instrument Used & S/N**

***Section 5***

| Confined Space Entrants | Entry Time | Exit Time | Emergency Nos. | Other Information |
|---|---|---|---|---|
| Craig Williams | 11:00 Am | 12:15 | 911 | |
| | | | | |
| | | | | |
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| | | | | |

**Entry Supervisor Authorization:** By my signature below I certify that all permit conditions are in place and the space is safe for entry.

[signature]

**Bay Area Coating Consultant Services, Inc. Confined Space Entry Permit**

***Section 1*** *Permit is valid for one shift only. Used permits are to be kept at site until job's over, then returned to job file.*

DATE: 4/28/04 SHIFT START: 0700 SHIFT ENDS: 0035

SITE LOCATION & NAME: US Filter, Red Bluff, Ca.

PURPOSE OF ENTRY: Coating Inspection

***Section 2***

**Highlight expected hazards listed below, and/or describe other hazard**

- [X] Oxygen Deficiency (< 19.5%)
- [ ] Oxygen Content > 23.5%
- [ ] Materials Harmful to Skin
- [ ] Flammable gases/vapors > 10% of Lower Explosive Limit
- [ ] Toxic Gases/Vapors > PEL - If so, list material(s) below in section three
- [ ] Engulfment Hazard
- [ ] Mechanical Hazards
- [ ] Electrical Hazard
- Other: Heat

***Section 3***

**Highlighted controls listed below are to be implemented prior to entry.**

**SITE PREPARATION CONTROLS**

| CONTROLS IN PLACE ? | DATE | BY |
|---|---|---|
| Locked out/Tagged out | N/A | |
| Lines broken and capped | N/A | |
| ~~Outside Entrance Secure~~ | yes | CW |
| Cln'd Drained & Purged | N/A | |
| Ventilation's Operating | N/A | |
| Emergency Team Ready | N/A | |
| Employees Trained | yes | CW |

**PPE AND OTHER PERSONNEL CONTROLS**

| REQUIREMENTS | |
|---|---|
| Full Body Harnesses | N/A |
| Extraction Equipment | N/A |
| ~~Lifelines~~ | N/A |
| Explosion Proof Lighting | N/A |
| Protective Clothing | yes |
| Communication | yes |
| Noise Protection | N/A |

OTHER: Excessive Heat inside Vessels (Drink Water)

***Section 4***

**Sniff for gases checked & monitor for PEL's**

| | MONITORING TEST | ENTRY OK AT | RECORD RESULTS AND TIME | | | | COMMENTS |
|---|---|---|---|---|---|---|---|
| X | Percent of Oxygen | 19.5 TO 23.5 % | ✓20.9 | | | | All ok |
| X | Lower Flammable Limit | Under 10% | | | | | |
| | Carbon Monoxide | 25ppm | | | | | |
| | > PEL for | | | | | | |
| | > PEL for | | | | | | |
| | Other | | | | | | |

NOTES:

Gas Tester Name: Instrument Used & S/N

***Section 5***

| Confined Space Entrants | Entry Time | Exit Time | Emergency Nos. | Other Information |
|---|---|---|---|---|
| Craig Williams | 0900 | 1135 | 911 | |
| Craig Williams | 2200 | 0035 | " | |
| | | | | |
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**Entry Supervisor Authorization:** By my signature below I certify that all permit conditions are in place and the space is safe for entry.

Thursday - Friday 4/30/04
4/29/04

Daily Quality Assurance Report

**Bay Area Coating Consultant Services**

Report # 1-888-384-6839 Vessel # 160052501-1 Nat'l Board # 169

| | | | |
|---|---|---|---|
| Contractor Start Time: | Lunch Break: | D/H Starting Hours | |
| Contractor Depart Time: | Total of Crew: | D/H Ending Hours | |
| Inspector Hours: | | Company: | US Filter |
| Project Name: | Vertical Carbon Filter Tanks | Foreman: | — |
| Project Location | US Filter, Red Bluff, Ca. | Inspector: | Craig Williams |

| Time | DB | WB | R/H | D/P | Substrate | High | Low | Location |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

| Outside Climatic Conditions: | Sunshine | Cloudy | Fog | Rain | Snow | Wind/MPH |
|---|---|---|---|---|---|---|
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|---|---|---|---|---|---|
| Anchor Profile: | #1 | #2 | #3 | | |
| Blast Hose P.S.I.: | #1 | #2 | #3 | | |
| Air Cleanliness: | (AM) | (PM) | | | |
| Type of Prep: | Abrasive Blast | Water Blast | Vacuum Blast | SP# | |
| | Abrasive: | | Size: | | |

| | | | | |
|---|---|---|---|---|
| Product/Number | | | | |
| Base Batch # | | | | |
| Activator Batch # | | | | |
| Other Component: | | | | |
| Thinner Batch # & % | | | | |
| Dwell Time | | | | |
| Paint Temp: | | | | |
| Amount Used: | | | | |

Mixing Procedure: Box Drill Mixing Time:

| WFT / DFT Mil Thickness | Area Recorded | Surface Type |
|---|---|---|
| 45.5 | Bowl | Coated Steel |
| 38.2 | Shell | " " |
| 39.1 | Lid | " " |
| | | |
| | | |
| | | |
| | | |

Inspectors Signature: [signature] Date: 4/29/04 - 4/30/04

Thursday 4/29/04

Daily Quality Assurance Report

## Bay Area Coating Consultant Services

1-888-384-6839 Vessel # 160051801-2 Nat'l Board # 122

| | | | |
|---|---|---|---|
| Report # 1 | | | |
| Contractor Start Time: | Lunch Break: | D/H Starting Hours | |
| Contractor Depart Time: | Total of Crew: | D/H Ending Hours | |
| Inspector Hours: | | Company: | US. Filter |
| Project Name: | Vertical Carbon Filter Tank | Foreman: | — |
| Project Location | US Filter. Red Bluff, Ca. | Inspector: | Craig Williams |

| Time | DB | WB | R/H | D/P | Substrate | High | Low | Location |
|---|---|---|---|---|---|---|---|---|
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| Outside Climatic Conditions: | Sunshine | Cloudy | Fog | Rain | Snow | Wind/MPH |
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|---|---|---|---|
| Anchor Profile: | #1 | #2 | #3 |
| Blast Hose P.S.I.: | #1 | #2 | #3 |
| Air Cleanliness: | (AM) | (PM) | |
| Type of Prep: | Abrasive Blast | Water Blast | Vacuum Blast | SP# |
| | Abrasive: | | Size: | |

| | | | | |
|---|---|---|---|---|
| Product/Number | | | | |
| Base Batch # | | | | |
| Activator Batch # | | | | |
| Other Component: | | | | |
| Thinner Batch # & % | | | | |
| Dwell Time | | | | |
| Paint Temp: | | | | |
| Amount Used: | | | | |

Mixing Procedure: Box Drill Mixing Time:

| WFT / DFT Mil Thickness | Area Recorded | Surface Type |
|---|---|---|
| 45.8 | Bowl | Coated Steel |
| 39.5 | Shell | " " |
| 40.7 | Lid | " " |
| | | |
| | | |
| | | |
| | | |

Inspectors Signature [signature] Date: 4/29/04

Thursday 4/28/04

Daily Quality Assurance Report

## Bay Area Coating Consultant Services

1-888-384-6839 Vessel # 160051901-2 Nat'l Board # 124

| | | | |
|---|---|---|---|
| Report # | | | |
| Contractor Start Time: | | Lunch Break: | | D/H Starting Hours | |
| Contractor Depart Time: | | Total of Crew: | | D/H Ending Hours | |
| Inspector Hours: | | | | Company: | US. Filter |
| Project Name: | US Filter - Vertical Carbon Filter Tanks | | | Foreman: | — |
| Project Location | Red Bluff, Cal | | | Inspector: | Craig Williams |

| Time | DB | WB | R/H | D/P | Substrate | High | Low | Location |
|---|---|---|---|---|---|---|---|---|
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| Outside Climatic Conditions: | Sunshine | Cloudy | Fog | Rain | Snow | Wind/MPH |
|---|---|---|---|---|---|---|
| | | | | | | |

| | | | |
|---|---|---|---|
| Anchor Profile: | #1 | #2 | #3 |
| Blast Hose P.S.I.: | #1 | #2 | #3 |
| Air Cleanliness: | (AM) | (PM) | |
| Type of Prep: | Abrasive Blast | Water Blast | Vacuum Blast | SP# |
| | Abrasive: | | Size: | |

| | | | | |
|---|---|---|---|---|
| Product/Number | | | | |
| Base Batch # | | | | |
| Activator Batch # | | | | |
| Other Component: | | | | |
| Thinner Batch # & % | | | | |
| Dwell Time | | | | |
| Paint Temp: | | | | |
| Amount Used: | | | | |

Mixing Procedure: Box Drill Mixing Time:

| WFT / DFT Mil Thickness | Area Recorded | Surface Type |
|---|---|---|
| 46.9 | Bowl | Coated Steel |
| 38.7 | Shell | " " |
| 41.2 | Lid | " " |
| | | |
| | | |
| | | |
| | | |

Inspectors Signature: C. Williams Date: 4/28/04

Thursday 4/29/04

Daily Quality Assurance Report

## Bay Area Coating Consultant Services

Report # 1 — 1-888-384-6839 — Vessel # 160051801-1 Nat'l board # 121

| | | | |
|---|---|---|---|
| Contractor Start Time: | Lunch Break: | D/H Starting Hours | |
| Contractor Depart Time: | Total of Crew: | D/H Ending Hours | |
| Inspector Hours: | | Company: | US. Filter |
| Project Name: | Vertical Carbon Filter Tanks | Foreman: | — |
| Project Location | US Filter, Red Bluff, Ca. | Inspector: | Craig Williams |

| Time | DB | WB | R/H | D/P | Substrate | High | Low | Location |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

| Outside Climatic Conditions: | Sunshine | Cloudy | Fog | Rain | Snow | Wind/MPH |
|---|---|---|---|---|---|---|
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|---|---|---|---|
| Anchor Profile: | #1 | #2 | #3 |
| Blast Hose P.S.I.: | #1 | #2 | #3 |
| Air Cleanliness: | (AM) | (PM) | |
| Type of Prep: | Abrasive Blast | Water Blast | Vacuum Blast / SP# |
| | Abrasive: | | Size: |

| | | | | |
|---|---|---|---|---|
| Product/Number | | | | |
| Base Batch # | | | | |
| Activator Batch # | | | | |
| Other Component: | | | | |
| Thinner Batch # & % | | | | |
| Dwell Time | | | | |
| Paint Temp: | | | | |
| Amount Used: | | | | |

Mixing Procedure: Box / Drill — Mixing Time:

| WFT / DFT Mil Thickness | Area Recorded | Surface Type |
|---|---|---|
| 40.7 | Bowl | Coated Steel |
| 41.6 | Shell | " " |
| 41.5 | Lid | " " |
| | | |
| | | |
| | | |
| | | |

Inspectors Signature: [signature] Date: 4/29/04

Thursday 4/29/04

Daily Quality Assurance Report

**Bay Area Coating Consultant Services**

1-888-384-6839

Vessel # 160051901-1

Nat' Board # 123

| | | | |
|---|---|---|---|
| Report # 1 | | | |
| Contractor Start Time: | Lunch Break: | D/H Starting Hours | |
| Contractor Depart Time: | Total of Crew: | D/H Ending Hours | |
| Inspector Hours: | | Company: | US Filter |
| Project Name: | Vertical Carbon Filter Tanks | Foreman: | — |
| Project Location | Red Bluff, Ca. | Inspector: | Craig Williams |

| Time | DB | WB | R/H | D/P | Substrate | High | Low | Location |
|---|---|---|---|---|---|---|---|---|
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| Outside Climatic Conditions: | Sunshine | Cloudy | Fog | Rain | Snow | Wind/MPH |
|---|---|---|---|---|---|---|
| | | | | | | |

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|---|---|---|---|---|---|
| Anchor Profile: | #1 | #2 | #3 | | |
| Blast Hose P.S.I.: | #1 | #2 | #3 | | |
| Air Cleanliness: | (AM) | (PM) | | | |
| Type of Prep: | Abrasive Blast | Water Blast | Vacuum Blast | SP# | |
| | Abrasive: | | Size: | | |

| | | | | |
|---|---|---|---|---|
| Product/Number | | | | |
| Base Batch # | | | | |
| Activator Batch # | | | | |
| Other Component: | | | | |
| Thinner Batch # & % | | | | |
| Dwell Time | | | | |
| Paint Temp: | | | | |
| Amount Used: | | | | |
| Mixing Procedure: Box | Drill | Mixing Time: | | |

| WFT / DFT Mil Thickness | Area Recorded | Surface Type |
|---|---|---|
| | Bowl | Coated Steel |
| | Shell | " " |
| | Lid | " " |
| | | |
| | | |
| | | |
| | | |

Inspectors Signature [signature] Date: 4/29/04

Wednesday 4/28/04

Daily Quality Assurance Report

## Bay Area Coating Consultant Services

Report #

1-888-384-6839 Vessel # 160052501-2 Nat'l Board # 170

| | | | |
|---|---|---|---|
| Contractor Start Time: | Lunch Break: | D/H Starting Hours | |
| Contractor Depart Time: | Total of Crew: | D/H Ending Hours | |
| Inspector Hours: | 4 Reg. | Company: | US Filter |
| Project Name: | US Filter, Vertical Carbon Filter Tanks | Foreman: | — |
| Project Location | US Filter, Red Bluff, Ca. | Inspector: | Craig Williams |

| Time | DB | WB | R/H | D/P | Substrate | High | Low | Location |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

| Outside Climatic Conditions: | Sunshine | Cloudy | Fog | Rain | Snow | Wind/MPH |
|---|---|---|---|---|---|---|
| | | | | | | |

| | | | |
|---|---|---|---|
| Anchor Profile: | #1 | #2 | #3 |
| Blast Hose P.S.I.: | #1 | #2 | #3 |
| Air Cleanliness: | (AM) | (PM) | |
| Type of Prep: | Abrasive Blast | Water Blast | Vacuum Blast / SP# |
| | Abrasive: | | Size: |

| | | | | |
|---|---|---|---|---|
| Product/Number | | | | |
| Base Batch # | | | | |
| Activator Batch # | | | | |
| Other Component: | | | | |
| Thinner Batch # & % | | | | |
| Dwell Time | | | | |
| Paint Temp: | | | | |
| Amount Used: | | | | |

Mixing Procedure: Box Drill Mixing Time:

| WFT / DFT Mil Thickness | Area Recorded | Surface Type |
|---|---|---|
| | Lid, | Coated Steel |
| | Shell | " " |
| | Bowl | " " |
| | | |
| | | |
| | | |
| | | |

Inspectors Signature [signature] Date: 4/28/04

Wednesday 4/28/04

Daily Quality Assurance Report

## Bay Area Coating Consultant Services

Report # 1-888-384-6839 Vessel # 160052001-2 Nat'l board #

| | | | |
|---|---|---|---|
| Contractor Start Time: | Lunch Break: | D/H Starting Hours | |
| Contractor Depart Time: | Total of Crew: | D/H Ending Hours | |
| Inspector Hours: | 4 - Reg | Company: | US Filter |
| Project Name: | Vertical Carbon Filter Tanks | Foreman: | — |
| Project Location | US Filter. Red Bluff, Ca. | Inspector: | Craig Williams |

| Time | DB | WB | R/H | D/P | Substrate | High | Low | Location |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

| Outside Climatic Conditions: | Sunshine | Cloudy | Fog | Rain | Snow | Wind/MPH |
|---|---|---|---|---|---|---|
| | | | | | | |

| | | | |
|---|---|---|---|
| Anchor Profile: | #1 | #2 | #3 |
| Blast Hose P.S.I.: | #1 | #2 | #3 |
| Air Cleanliness: | (AM) | (PM) | |
| Type of Prep: | Abrasive Blast | Water Blast | Vacuum Blast / SP# |
| | Abrasive: | | Size: |

| | | | | |
|---|---|---|---|---|
| Product/Number | | | | |
| Base Batch # | | | | |
| Activator Batch # | | | | |
| Other Component: | | | | |
| Thinner Batch # & % | | | | |
| Dwell Time | | | | |
| Paint Temp: | | | | |
| Amount Used: | | | | |

Mixing Procedure: Box Drill Mixing Time:

| WFT / DFT Mil Thickness | Area Recorded | Surface Type |
|---|---|---|
| 43.2 | Lid | Coated Steel |
| 40.1 | Shell | " " |
| 40.9 | Bowl | " " |
| | | |
| | | |
| | | |
| | | |

Inspectors Signature: [signature] Date: 4/28/04

Wednesday 4/28/04

Daily Quality Assurance Report

## Bay Area Coating Consultant Services

1-888-384-6839

Tank# 160052001-1 NB# 125

| | | | |
|---|---|---|---|
| Report # | | | |
| Contractor Start Time: | Lunch Break: | D/H Starting Hours | |
| Contractor Depart Time: | Total of Crew: | D/H Ending Hours | |
| Inspector Hours: | 4 Reg. | Company: | US Filter |
| Project Name: | US Filter. Inspect Carbon Tank | Foreman: | Britt |
| Project Location | Red Bluff, Ca | Inspector: | Craig Williams |

| Time | DB | WB | R/H | D/P | Substrate | High | Low | Location |
|---|---|---|---|---|---|---|---|---|
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| | | | | | | | | |

| Outside Climatic Conditions: | Sunshine | Cloudy | Fog | Rain | Snow | Wind/MPH |
|---|---|---|---|---|---|---|
| | | | | | | |

| | | | |
|---|---|---|---|
| Anchor Profile: | #1 | #2 | #3 |
| Blast Hose P.S.I.: | #1 | #2 | #3 |
| Air Cleanliness: | (AM) | (PM) | |
| Type of Prep: | Abrasive Blast | Water Blast | Vacuum Blast / SP# |
| | Abrasive: | | Size: |

| | | | | |
|---|---|---|---|---|
| Product/Number | | | | |
| Base Batch # | | | | |
| Activator Batch # | | | | |
| Other Component: | | | | |
| Thinner Batch # & % | | | | |
| Dwell Time | | | | |
| Paint Temp: | | | | |
| Amount Used: | | | | |

Mixing Procedure: Box Drill Mixing Time:

| WFT / DFT Mil Thickness | | Area Recorded | Surface Type |
|---|---|---|---|
| LID | 39.2 | Interior Lid | Coated Carbon Steel SP-5 |
| Floor | 41.8 | " Floor | " " " " |
| SHELL | 38.9 | " Shell | " " " " |
| | | | |
| | | See Reverse Side | |
| | | | |
| | | | |

Inspectors Signature: [signature] Date: 4/28/04

4/28/04

Vessel #160052001-2

| TIME START - STOP | HOURS | REPORT OF OPERATIONS (CONTINUED) | MEMORY JOGGERS |
|---|---|---|---|
| | | + Inspected DFT's and Holidays to the lining (Interior) of the vessel. Could not inspect for holidays on the 8 bowl nozzles, or 3 shell ~~roll~~ nozzles due to filters and inserts installed. | SPECIFICATION REVIEW |
| | | + All Holidays were marked. Any Low or High DFT's were also marked | AMBIENT CONDITIONS |
| | | + Holiday check revealed a total sixteen (16) holidays that include areas of both manways, and lower and Upper welds. | CLEAN AIR SUPPLY |
| | | + DFT's as Follows: | CLEAN ABRASIVE |
| | | | SURFACE CONTAMINATION |
| | | | NOZZLE SIZE |
| | | | SURFACE PROFILE |
| | | | GROUNDED BLAST EQUIPMT |
| | | | PROPER PAINT STORAGE |
| | | | BATCH # RECORDED |
| | | | PROPER MIXING |
| | | | PROPER THINNING |
| | | | AGITATORS |
| | | | SWEAT IN TIME |
| | | | WFT MEASUREMENTS |
| | | | DFT MEASUREMENTS |
| | | | STRIPE COAT |
| | | | SPRAY TIP SIZE |
| | | | POT PRESSURE |
| | | | POT SIZE |
| | | | AIRLESS PUMP PRESSURE |
| | | | GROUNDED SPRAY EQUIPMT |
| | | | RAISED FLANGE FACES |
| | | | WELD DEFECTS |
| | | | PIPE UNDERSIDES |
| | | | SPARK TESTING |
| | | | REJECTS DOCUMENTED |
| | | | CALIBRATION |
| | | | HOUSE KEEPING |
| | | | DIAGRAMS - DRAWINGS |
| | | | WASTE CONTAINMENT |
| | | | WASTE DISPOSAL |

Bowl = 40 readings:

| | | Lid = 40 readings: | |
|---|---|---|---|
| 48.3 | 39.9 | 49.3 | 49.5 |
| 42.1 | 35.0 | 39.0 | 49.1 |
| 44.5 | 35.1 | 38.7 | 44.2 |
| 42.0 | 41.6 | 40.7 | 36.9 |
| 38.5 | 44.8 | 41.9 | 37.8 |
| 35.9 | 36.7 | 43.3 | 41.6 |
| 47.6 | 35.4 | 35.6 | 47.4 |
| 37.9 | 40.7 | 37.7 | 43.5 |
| 45.1 | 39.5 | 36.9 | 37.0 |
| 42.3 | 41.9 | 39.1 | 36.7 |
| 42.4 | 38.3 | 38.3 | 38.3 |
| 48.6 | 35.8 | 42.9 | 45.9 |
| 40.0 | 46.0 | 45.0 | 45.6 |
| 37.2 | 43.6 | 42.8 | 37.2 |
| 47.9 | 40.6 | 40.2 | 42.6 |
| 43.1 | 41.7 | 42.9 | 47.5 |
| 36.4 | 44.9 | 50.1 | 40.4 |
| 34.9 | 34.9 | 41.1 | 41.8 |
| 34.8 | 47.1 | 48.0 | 43.6 |
| 35.4 | 46.5 | 43.5 | 40.9 |
| Avg = 41.2 | 40.5 | 41.9 | 44.5 = Avg. |

Total Avg/Bowl = 40.9

Total Avg/Lid = 43.2

Shell = 70 Readings

| | | | | | | |
|---|---|---|---|---|---|---|
| 46.4 | 30.8 | 45.7 | 50.7 | 46.0 | 47.8 | 43.5 |
| 44.3 | 32.3 | 23.2 | 43.9 | 44.4 | 46.5 | 41.3 |
| 35.3 | 37.1 | 41.8 | 44.7 | 37.1 | 38.5 | 36.9 |
| 45.2 | 45.0 | 40.4 | 43.8 | 38.3 | 36.5 | 43.2 |
| 29.7 | 31.1 | 45.4 | 40.8 | 44.5 | 38.0 | 45.7 |
| 29.1 | 32.4 | 42.7 | 40.8 | 42.7 | 46.5 | 41.0 |
| 33.5 | 40.3 | 46.9 | 42.3 | 38.5 | 34.9 | 36.8 |
| 32.0 | 35.1 | 49.0 | 41.2 | 47.5 | 46.0 | 37.7 |
| 24.8 | 43.1 | 50.3 | 38.7 | 50.1 | 38.6 | 39.3 |
| 27.7 | 35.3 | 44.2 | 37.4 | 37.5 | 38.5 | 40.0 |
| Avg = 34.8 | 36.3 | 43.0 | 42.4 | 42.7 | 41.2 | 40.5 |

+ Total Avg/Shell = 40.1

+ Total Avg of the interior lining = 41.4

4/28/04

Vessel # 160052501-2 Nat'l board # 170 ✓

| TIME START - STOP | HOURS | REPORT OF OPERATIONS (CONTINUED) | MEMORY JOGGERS |
|---|---|---|---|
| | | - Inspected DFT's and Holidays to the interior lining of the vessel. | SPECIFICATION REVIEW |
| | | - I could not check for holidays in the bowl's eight nozzles. Filters were installed in them. | AMBIENT CONDITIONS |
| | | - All holidays were marked. Any DFT's out of the specified thickness range were also marked. | CLEAN AIR SUPPLY |
| | | - Holiday check revealed a total of ten holidays that include areas on both manways, upper weld, shell, and nozzle. | CLEAN ABRASIVE |
| | | - DFT's as follows: | SURFACE CONTAMINATION |
| | | | NOZZLE SIZE |
| | | | SURFACE PROFILE |
| | | | GROUNDED BLAST EQUIPMT |
| | | | PROPER PAINT STORAGE |
| | | | BATCH # RECORDED |
| | | | PROPER MIXING |
| | | | PROPER THINNING |
| | | | AGITATORS |
| | | | SWEAT IN TIME |
| | | | WFT MEASUREMENTS |
| | | | DFT MEASUREMENTS |
| | | | STRIPE COAT |
| | | | SPRAY TIP SIZE |
| | | | POT PRESSURE |
| | | | POT SIZE |
| | | | AIRLESS PUMP PRESSURE |
| | | | GROUNDED SPRAY EQUIPMT |
| | | | RAISED FLANGE FACES |
| | | | WELD DEFECTS |
| | | | PIPE UNDERSIDES |
| | | | SPARK TESTING |
| | | | REJECTS DOCUMENTED |
| | | | CALIBRATION |
| | | | HOUSE KEEPING |
| | | | DIAGRAMS - DRAWINGS |
| | | | WASTE CONTAINMENT |
| | | | WASTE DISPOSAL |

Bowl = 40 readings

| | | Lid = 40 readings | |
|---|---|---|---|
| 36.2 | 37.7 | 41.3 | 38.2 |
| 46.0 | 22.1 | 37.2 | 43.0 |
| 40.2 | 27.9 | 40.6 | 44.6 |
| 40.5 | 31.3 | 43.1 | 38.0 |
| 42.0 | 29.6 | 35.8 | 49.2 |
| 36.1 | 25.3 | 37.5 | 46.8 |
| 34.7 | 35.8 | 42.1 | 40.6 |
| 42.5 | 30.1 | 42.1 | 42.7 |
| 39.1 | 44.4 | 42.1 | 50.1 |
| 40.8 | 28.6 | 38.9 | 40.2 |
| 40.2 | 36.2 | 35.4 | 49.7 |
| 38.9 | 21.1 | 37.1 | 43.6 |
| 39.3 | 27.1 | 34.9 | 41.9 |
| 35.8 | 37.5 | 42.6 | 46.4 |
| 38.0 | 25.9 | 42.2 | 39.4 |
| 23.0 | 34.1 | 39.5 | 44.1 |
| 28.7 | 38.0 | 38.7 | 46.5 |
| 30.7 | 42.2 | 38.3 | 44.8 |
| 25.9 | 41.9 | 35.2 | 36.7 |
| 28.4 | 40.8 | 43.3 | 36.0 |
| Avg = 36.4 | 32.9 | 39.4 | 43.1 = Avg. |

Total Avg/Bowl = 34.7 Total Avg./Lid. = 41.3

Shell = 70 readings

| | | | | | | |
|---|---|---|---|---|---|---|
| 35.0 | 29.7 | 29.8 | 41.9 | 38.1 | 26.4 | 27.0 |
| 39.7 | 26.2 | 29.5 | 21.6 | 39.4 | 26.9 | 25.5 |
| 40.3 | 32.4 | 28.5 | 30.5 | 37.9 | 27.4 | 31.5 |
| 48.0 | 23.1 | 28.9 | 18.4 | 33.3 | 32.9 | 31.6 |
| 39.4 | 33.5 | 26.6 | 23.2 | 30.0 | 33.7 | 31.2 |
| 47.1 | 31.5 | 26.7 | 31.7 | 26.1 | 31.8 | 29.4 |
| 45.1 | 30.1 | 30.0 | 49.8 | 29.4 | 29.6 | 32.6 |
| 38.5 | 32.9 | 29.2 | 35.8 | 33.6 | 30.3 | 23.4 |
| 35.2 | 26.1 | 23.2 | 44.8 | 42.1 | 39.0 | 28.3 |
| 28.2 | 27.4 | 34.9 | 36.0 | 36.9 | 40.4 | 27.0 |
| Avg = 39.7 | 29.3 | 28.7 | 33.4 | 34.7 | 31.8 | 28.7 |

Total Avg/Shell = 32.3

Total Avg of the interior lining = 36.1

4/29/04

Thursday 4/29/04 Vessel # 160051901-1 Nat'l Board # 123 ✓

| TIME START - STOP | HOURS | REPORT OF OPERATIONS (CONTINUED) | MEMORY JOGGERS |
|---|---|---|---|
| | | - Inspected DFT's and Holidays to the interior lining of this vessel. | SPECIFICATION REVIEW |
| | | | AMBIENT CONDITIONS |
| | | - I could not check for holidays to the vessels eight nozzles in the bowl, or the three nozzles on the shell. They had filters & inserts installed. | CLEAN AIR SUPPLY |
| | | | CLEAN ABRASIVE |
| Twelve Holidays detected and Marked | | - All holidays (12) were marked. Any DFT's out of specified thickness range were also marked. | SURFACE CONTAMINATION |
| | | | NOZZLE SIZE |
| | | - Holiday check revealed holidays in areas that also include both manways, Lid nozzle, and upper weld. | SURFACE PROFILE |
| | | | GROUNDED BLAST EQUIPMT |
| | | - DFT's as follows: | PROPER PAINT STORAGE |
| | | | BATCH # RECORDED |
| | | | PROPER MIXING |
| | | | PROPER THINNING |
| | | | AGITATORS |
| | | | SWEAT IN TIME |
| | | | WFT MEASUREMENTS |
| | | | DFT MEASUREMENTS |
| | | | STRIPE COAT |
| | | | SPRAY TIP SIZE |
| | | | POT PRESSURE |
| | | | POT SIZE |
| | | | AIRLESS PUMP PRESSURE |
| | | | GROUNDED SPRAY EQUIPMT |
| | | | RAISED FLANGE FACES |
| | | | WELD DEFECTS |
| | | | PIPE UNDERSIDES |
| | | | SPARK TESTING |
| | | | REJECTS DOCUMENTED |
| | | | CALIBRATION |
| | | | HOUSE KEEPING |
| | | | DIAGRAMS - DRAWINGS |
| | | | WASTE CONTAINMENT |
| | | | WASTE DISPOSAL |

Bowl = 40 readings

| | | | |
|---|---|---|---|
| 39.9 | 33.3 | 37.8 | 44.4 |
| 40.4 | 31.7 | 38.6 | 43.4 |
| 41.5 | 33.6 | 44.5 | 36.2 |
| 33.3 | 32.8 | 37.1 | 36.2 |
| 43.4 | 39.0 | 37.4 | 35.3 |
| 37.2 | 43.1 | 37.5 | 45.6 |
| 36.0 | 36.4 | 37.3 | 29.7 |
| 40.2 | 32.1 | 35.3 | 29.9 |
| 38.9 | 40.6 | 39.5 | 31.6 |
| 38.6 | 35.7 | 37.8 | 30.0 |
| 36.7 | 35.6 | 42.2 | 27.7 |
| 39.4 | 36.6 | 44.4 | 30.0 |
| 43.7 | 35.7 | 49.4 | 33.8 |
| 35.5 | 42.5 | 36.8 | 37.6 |
| 30.7 | 37.5 | 35.6 | 37.1 |
| 33.1 | 36.2 | 36.7 | 44.3 |
| 32.1 | 45.3 | 39.9 | 35.1 |
| 32.6 | 43.0 | 47.9 | 39.7 |
| 33.8 | 43.2 | 42.2 | 37.8 |
| 32.2 | 42.2 | 48.5 | 43.7 |
| Avg = 37.1 | 37.8 | 40.3 | 36.5 = Avg. |

Total Avg = 37.5 Total Avg. = 38.4

Shell = 70 readings

| | | | | | | |
|---|---|---|---|---|---|---|
| 42.4 | 40.6 | 59.1 | 43.7 | 39.9 | 41.4 | 41.1 |
| 39.5 | 44.6 | 51.5 | 39.4 | 48.0 | 48.6 | 44.6 |
| 45.9 | 37.0 | 51.5 | 43.1 | 40.3 | 49.5 | 38.8 |
| 43.7 | 43.9 | 59.6 | 44.9 | 42.5 | 38.1 | 37.3 |
| 49.8 | 46.1 | 44.1 | 47.6 | 44.6 | 45.5 | 36.4 |
| 49.7 | 48.0 | 42.8 | 49.2 | 39.4 | 37.1 | 38.8 |
| 42.1 | 45.7 | 61.9 | 47.3 | 40.2 | 40.2 | 41.0 |
| 48.6 | 54.0 | 34.9 | 49.2 | 54.7 | 46.2 | 41.4 |
| 39.8 | 59.0 | 39.7 | 44.5 | 62.1 | 39.7 | 39.4 |
| 34.8 | 52.3 | 49.2 | 39.9 | 54.7 | 40.1 | 42.0 |
| Avg. = 43.6 | 47.1 | 49.4 | 45.0 | 46.6 | 42.6 | 40.1 |

Total Avg. = 45.0

- Total Avg. of the interior lining = 40.3

4/29/04

Vessel # 160051801-1 Nat'l board # 121

| TIME START - STOP | HOURS | REPORT OF OPERATIONS (CONTINUED) | MEMORY JOGGERS |
|---|---|---|---|
| DFT Gauge Calibrated. | | - Inspected DFT's and Holidays to the interior lining of this vessel. | SPECIFICATION REVIEW |
| | | - I could not check for holidays to the vessel's eight nozzles in the bowl, or the three nozzles located on the shell. Their were filters and inserts installed. | AMBIENT CONDITIONS |
| | | - All holidays, (28) twenty eight, were marked. Any DFT outside of the specified thickness range were also marked. | CLEAN AIR SUPPLY |
| | | - Holidays marked also include both mannways, upper and lower welds on the shell. | CLEAN ABRASIVE |
| | | - DFT's as follows: | SURFACE CONTAMINATION |
| | | | NOZZLE SIZE |
| | | | SURFACE PROFILE |
| | | | GROUNDED BLAST EQUIPMT |
| | | | PROPER PAINT STORAGE |
| | | | BATCH # RECORDED |
| | | | PROPER MIXING |
| | | | PROPER THINNING |
| | | | AGITATORS |
| | | | SWEAT IN TIME |
| | | | WFT MEASUREMENTS |
| | | | DFT MEASUREMENTS |
| | | | STRIPE COAT |
| | | | SPRAY TIP SIZE |
| | | | POT PRESSURE |
| | | | POT SIZE |
| | | | AIRLESS PUMP PRESSURE |
| | | | GROUNDED SPRAY EQUIPMT |
| | | | RAISED FLANGE FACES |
| | | | WELD DEFECTS |
| | | | PIPE UNDERSIDES |
| | | | SPARK TESTING |
| | | | REJECTS DOCUMENTED |
| | | | CALIBRATION |
| | | | HOUSE KEEPING |
| | | | DIAGRAMS - DRAWINGS |
| | | | WASTE CONTAINMENT |
| | | | WASTE DISPOSAL |

Bowl = 40 readings

| | | Lid = 40 readings | |
|---|---|---|---|
| 44.4 | 37.8 | 43.5 | 45.4 |
| 47.1 | 42.2 | 47.8 | 43.7 |
| 42.3 | 48.1 | 47.3 | 49.3 |
| 40.1 | 34.3 | 43.4 | 42.9 |
| 45.3 | 34.7 | 38.6 | 45.2 |
| 48.6 | 45.2 | 39.5 | 44.2 |
| 36.3 | 37.5 | 39.3 | 50.1 |
| 36.3 | 30.1 | 41.4 | 46.8 |
| 42.5 | 47.5 | 38.7 | 42.1 |
| 49.4 | 41.7 | 39.3 | 41.4 |
| 47.1 | 34.9 | 35.4 | 43.1 |
| 36.6 | 39.0 | 41.0 | 39.1 |
| 37.6 | 41.3 | 41.0 | 37.4 |
| 43.1 | 37.3 | 37.8 | 36.0 |
| 38.9 | 44.4 | 40.6 | 36.6 |
| 35.8 | 36.7 | 38.2 | 47.5 |
| 35.4 | 39.6 | 35.6 | 41.3 |
| 42.7 | 40.3 | 42.2 | 40.6 |
| 44.7 | 39.3 | 36.6 | 35.0 |
| 45.3 | 36.5 | 37.9 | 48.3 |
| Avg = 42.0 | 39.4 | 40.2 | 42.8 = Avg. |
| Total Avg. = 40.7 | | Total Avg = 41.5 | |

Shell = 70 readings

| | | | | | | |
|---|---|---|---|---|---|---|
| 36.5 | 37.5 | 39.7 | 41.5 | 33.8 | 43.1 | 38.8 |
| 46.8 | 34.9 | 49.1 | 42.9 | 31.2 | 40.0 | 45.8 |
| 45.7 | 37.6 | 40.6 | 35.3 | 32.5 | 42.0 | 42.2 |
| 41.3 | 41.4 | 40.8 | 40.3 | 31.8 | 44.3 | 61.2 |
| 44.4 | 35.5 | 37.6 | 41.4 | 31.5 | 44.1 | 58.6 |
| 44.7 | 40.3 | 38.1 | 29.7 | 32.8 | 36.8 | 70.0 |
| 39.6 | 38.3 | 40.8 | 31.1 | 30.6 | 49.7 | 74.8 |
| 40.9 | 35.0 | 45.2 | 35.5 | 37.3 | 42.4 | 69.5 |
| 48.5 | 44.6 | 35.0 | 30.3 | 38.0 | 42.6 | 53.4 |
| 35.0 | 35.6 | 39.1 | 30.6 | 45.3 | 38.6 | 64.2 |
| Avg = 42.3 | 38.1 | 40.6 | 35.7 | 34.5 | 42.4 | 57.9 |

Total Avg. = 41.6

- Total Avg. of the interior lining = 41.3

4/28/04

Vessel # 160051901-2 Nat'l Board # 124 ✓

| TIME START - STOP | HOURS | REPORT OF OPERATIONS (CONTINUED) | MEMORY JOGGERS |
|---|---|---|---|
| | | - I inspected for DFT's and Holidays to the interior lining of this vessel. | SPECIFICATION REVIEW |
| | | - I could not check for holidays to the vessel's eight nozzles in the bowl, or the three nozzles on the shell. There were filters and inserts installed. | AMBIENT CONDITIONS |
| | | - All holidays, (14) fourteen, were marked and include areas on both manways, upper weld, and nozzles. | CLEAN AIR SUPPLY |
| | | - Any DFT's outside specified thickness range were also marked. | CLEAN ABRASIVE |
| | | - DFT's as follows: | SURFACE CONTAMINATION |
| | | | NOZZLE SIZE |
| | | | SURFACE PROFILE |
| | | | GROUNDED BLAST EQUIPMT |
| | | | PROPER PAINT STORAGE |
| | | | BATCH # RECORDED |
| | | | PROPER MIXING |
| | | | PROPER THINNING |
| | | | AGITATORS |
| | | | SWEAT IN TIME |
| | | | WFT MEASUREMENTS |
| | | | DFT MEASUREMENTS |
| | | | STRIPE COAT |
| | | | SPRAY TIP SIZE |
| | | | POT PRESSURE |
| | | | POT SIZE |
| | | | AIRLESS PUMP PRESSURE |
| | | | GROUNDED SPRAY EQUIPMT |
| | | | RAISED FLANGE FACES |
| | | | WELD DEFECTS |
| | | | PIPE UNDERSIDES |
| | | | SPARK TESTING |
| | | | REJECTS DOCUMENTED |
| | | | CALIBRATION |
| | | | HOUSE KEEPING |
| | | | DIAGRAMS - DRAWINGS |
| | | | WASTE CONTAINMENT |
| | | | WASTE DISPOSAL |

Bowl = 40 readings / Lid = 40 readings

| | | | |
|---|---|---|---|
| 40.9 | 46.3 | 35.6 | 50.2 |
| 35.0 | 53.0 | 38.6 | 48.2 |
| 35.3 | 53.4 | 35.7 | 46.2 |
| 46.9 | 56.8 | 35.0 | 43.6 |
| 35.4 | 53.4 | 35.4 | 42.7 |
| 47.4 | 63.4 | 36.8 | 36.9 |
| 46.4 | 58.9 | 34.9 | 38.6 |
| 49.4 | 57.9 | 36.8 | 35.7 |
| 43.7 | 59.9 | 47.0 | 44.9 |
| 35.2 | 54.5 | 50.0 | 41.6 |
| 38.7 | 60.3 | 42.5 | 39.6 |
| 39.5 | 43.7 | 46.9 | 35.0 |
| 35.3 | 46.8 | 41.7 | 39.8 |
| 41.5 | 43.9 | 36.2 | 39.6 |
| 39.5 | 43.8 | 40.5 | 37.5 |
| 49.9 | 41.2 | 46.2 | 44.7 |
| 47.1 | 44.6 | 37.1 | 49.6 |
| 49.8 | 49.6 | 43.5 | 44.2 |
| 49.3 | 42.1 | 38.9 | 36.3 |
| 44.9 | 48.3 | 49.0 | 45.5 |
| Avg = 42.6 | 51.1 | 40.4 | 42.0 |

Total Avg. = 46.9 / Total Avg. = 41.2

Shell = 70 Readings

| | | | | | | |
|---|---|---|---|---|---|---|
| 45.1 | 41.4 | 46.5 | 41.5 | 30.1 | 41.4 | 24.9 |
| 39.4 | 50.3 | 43.9 | 45.9 | 32.6 | 38.5 | 41.1 |
| 38.9 | 37.1 | 47.3 | 38.9 | 29.2 | 35.1 | 35.5 |
| 39.3 | 43.3 | 37.6 | 43.5 | 34.7 | 38.1 | 39.0 |
| 43.3 | 39.9 | 48.2 | 35.3 | 34.0 | 38.0 | 27.0 |
| 44.9 | 41.5 | 41.5 | 35.0 | 28.8 | 46.9 | 42.6 |
| 46.6 | 44.2 | 38.9 | 32.5 | 36.7 | 40.8 | 46.7 |
| 37.2 | 46.1 | 44.4 | 40.5 | 38.8 | 26.4 | 45.4 |
| 35.1 | 43.3 | 41.0 | 33.4 | 38.5 | 29.1 | 44.6 |
| 40.3 | 48.1 | 38.9 | 30.2 | 36.5 | 33.1 | 37.2 |
| Avg = 41.0 | 43.5 | 42.8 | 37.7 | 31.0 | 36.7 | 38.4 |

Total Avg. = 38.7

- Total Avg. of the interior lining = 42.3

4/29/04

Vessel # 160051801-2 Nat'l Board # 122

| TIME START | TIME STOP | HOURS | REPORT OF OPERATIONS (CONTINUED) | MEMORY JOGGERS |
|---|---|---|---|---|
| | | | - I inspected for DFT's and Holidays to the interior lining of this vessel. | SPECIFICATION REVIEW |
| | | | - I could not inspect for holidays to the vessels eight nozzles in the bowl, or the three nozzles on the shell. There were filters and inserts installed. | AMBIENT CONDITIONS |
| | | | - All holidays, (11) eleven, were marked and include both manways, nozzle, shell, and lid. | CLEAN AIR SUPPLY |
| | | | - Any DFT's outside specified range of thickness were also marked. | CLEAN ABRASIVE |
| | | | - DFT's as follows: | SURFACE CONTAMINATION |
| | | | Lid = 40 readings | NOZZLE SIZE |
| | | | 40 Readings = Bowl = 45.3 36.2 @ 4/29/04 37.8 34.8 @ 4/29/04 | SURFACE PROFILE |
| | | | 45.3 42.5 40.1 36.7 | GROUNDED BLAST EQUIPMT |
| | | | 47.5 37.6 39.7 36.7 | PROPER PAINT STORAGE |
| | | | 46.1 36.5 40.9 41.5 | BATCH # RECORDED |
| | | | 37.7 43.2 47.3 35.6 | PROPER MIXING |
| | | | 46.6 42.3 35.2 40.4 | PROPER THINNING |
| | | | 48.6 45.4 38.0 38.6 | AGITATORS |
| | | | 45.0 45.0 42.5 48.1 | SWEAT IN TIME |
| | | | 47.3 46.1 43.8 41.7 | WFT MEASUREMENTS |
| | | | 45.3 62.2 43.5 35.3 | DFT MEASUREMENTS |
| | | | 48.3 52.4 42.9 38.1 | STRIPE COAT |
| | | | 47.6 55.5 45.7 41.8 | SPRAY TIP SIZE |
| | | | 44.3 58.8 45.8 45.1 | POT PRESSURE |
| | | | 48.1 56.2 38.3 36.9 | POT SIZE |
| | | | 49.4 57.2 41.0 40.9 | AIRLESS PUMP PRESSURE |
| | | | 46.2 50.6 48.0 39.3 | GROUNDED SPRAY EQUIPMT |
| | | | 44.2 55.9 40.2 37.3 | RAISED FLANGE FACES |
| | | | 37.7 41.9 42.1 39.0 | WELD DEFECTS |
| | | | 50.5 43.1 41.9 36.6 | PIPE UNDERSIDES |
| | | | 36.1 49.6 41.0 45.5 | SPARK TESTING |
| | | | Avg = 45.4 46.1 Avg. = 41.8 39.5 | REJECTS DOCUMENTED |
| | | | Total Avg = 45.8 Total Avg = 40.7 | CALIBRATION |
| | | | | HOUSE KEEPING |
| | | | | DIAGRAMS - DRAWINGS |
| | | | | WASTE CONTAINMENT |
| | | | | WASTE DISPOSAL |
| | | | Shell = 70 readings | |
| | | | 44.4 49.3 36.1 40.8 48.9 27.0 37.3 | |
| | | | 37.0 35.4 37.9 37.9 40.8 29.3 38.7 | |
| | | | 44.8 39.5 36.9 50.1 40.0 45.7 36.8 | |
| | | | 46.2 39.4 41.7 40.1 42.8 37.0 48.9 | |
| | | | 39.5 45.1 44.3 34.9 45.0 38.9 38.4 | |
| | | | 42.5 41.2 37.8 38.0 50.2 32.9 36.0 | |
| | | | 37.9 38.8 36.3 43.3 40.0 37.8 35.7 | |
| | | | 39.2 39.2 43.8 35.3 42.5 43.5 37.8 | |
| | | | 43.1 40.3 36.9 37.0 41.9 40.2 42.3 | |
| | | | 37.0 37.7 36.9 30.1 46.6 42.5 36.0 | |
| | | | @ 4/29/04 = ↓ ↓ ↓ ↓ ↓ ↓ ↓ | |
| | | | Avg = 41.2 40.6 35.6 38.8 43.9 37.5 38.8 | |
| | | | Total Avg = 39.5 | |
| | | | - Total Avg. of the interior lining = 42.0 | |

4/30/04

Vessel # 160052501-1 Nat'l Board # 169

| TIME START - STOP | HOURS | REPORT OF OPERATIONS (CONTINUED) | MEMORY JOGGERS |
|---|---|---|---|
| | | - I inspected for DFT's and Holidays to the interior lining of this vessel. | SPECIFICATION REVIEW |
| | | - I could not check for holidays to the vessels eight nozzles in the bowl. There were filters installed. | AMBIENT CONDITIONS |
| Fourty-eight Holidays | | - All holidays 48 were marked and include areas on both manways, shell, welds, and nozzles. | CLEAN AIR SUPPLY |
| | | - Any DFT's outside specified thickness range were also marked | CLEAN ABRASIVE |
| | | - DFT's as follows: | SURFACE CONTAMINATION |
| | | | NOZZLE SIZE |
| | | | SURFACE PROFILE |
| | | | GROUNDED BLAST EQUIPMT |
| | | | PROPER PAINT STORAGE |
| | | | BATCH # RECORDED |
| | | | PROPER MIXING |
| | | | PROPER THINNING |
| | | | AGITATORS |
| | | | SWEAT IN TIME |
| | | | WFT MEASUREMENTS |
| | | | DFT MEASUREMENTS |
| | | | STRIPE COAT |
| | | | SPRAY TIP SIZE |
| | | | POT PRESSURE |
| | | | POT SIZE |
| | | | AIRLESS PUMP PRESSURE |
| | | | GROUNDED SPRAY EQUIPMT |
| | | | RAISED FLANGE FACES |
| | | | WELD DEFECTS |
| | | | PIPE UNDERSIDES |
| | | | SPARK TESTING |
| | | | REJECTS DOCUMENTED |
| | | | CALIBRATION |
| | | | HOUSE KEEPING |
| | | | DIAGRAMS - DRAWINGS |
| | | | WASTE CONTAINMENT |
| | | | WASTE DISPOSAL |

Bowl = 40 readings

| | | | |
|---|---|---|---|
| 44.2 | 45.2 | 37.2 | 50.2 |
| 41.3 | 44.6 | 35.1 | 40.3 |
| 40.2 | 29.1 | 35.0 | 42.7 |
| 41.4 | 24.5 | 35.3 | 41.0 |
| 48.9 | 33.4 | 35.6 | 42.6 |
| 47.7 | 33.3 | 34.9 | 41.3 |
| 49.6 | 31.5 | 37.2 | 42.6 |
| 47.2 | 30.5 | 38.4 | 42.0 |
| 53.1 | 32.5 | 40.3 | 38.0 |
| 57.3 | 38.7 | 37.6 | 35.1 |
| 65.7 | 36.9 | 37.0 | 38.0 |
| 61.2 | 50.1 | 35.2 | 44.3 |
| 56.4 | 46.3 | 40.9 | 30.9 |
| 62.4 | 45.6 | 45.4 | 32.3 |
| 65.7 | 32.2 | 47.3 | 32.3 |
| 59.3 | 44.1 | 49.5 | 31.3 |
| 54.7 | 46.2 | 62.6 | 26.0 |
| 57.6 | 35.8 | 55.4 | 28.4 |
| 51.6 | 44.4 | 42.7 | 30.3 |
| 48.9 | 39.1 | 43.7 | 30.5 |
| Avg = 52.7 | 38.2 | Avg = 41.3 | 37.0 |

Total Avg. = 45.5 Total Avg. = 39.1

Shell = 70 readings

| | | | | | | |
|---|---|---|---|---|---|---|
| 41.0 | 53.8 | 32.3 | 36.2 | 38.9 | 31.9 | 39.6 |
| 36.9 | 52.5 | 32.3 | 36.7 | 35.4 | 31.3 | 39.4 |
| 39.6 | 55.5 | 30.1 | 45.6 | 35.6 | 36.0 | 41.7 |
| 37.8 | 57.3 | 28.6 | 42.1 | 35.3 | 38.4 | 41.3 |
| 35.7 | 23.8 | 30.6 | 44.7 | 44.4 | 36.7 | 37.9 |
| 39.7 | 27.2 | 28.4 | 38.3 | 50.1 | 36.4 | 28.1 |
| 52.4 | 29.1 | 27.9 | 43.6 | 41.4 | 36.2 | 22.1 |
| 53.1 | 29.1 | 30.9 | 48.7 | 29.2 | 44.0 | 25.9 |
| 61.9 | 26.4 | 38.7 | 36.1 | 28.7 | 37.4 | 30.6 |
| 66.8 | 23.2 | 38.9 | 59.1 | 32.7 | 38.0 | 37.2 |
| Avg. = 46.5 | 37.8 | 31.9 | 43.1 | 37.2 | 36.6 | 34.4 |

Total Avg. = 38.2

@ 4/29 - 4/30/04

- Total Avg of the interior lining = ~~38.2~~ 40.9

Wednesday 4/28/04

Daily Quality Assurance Report

**Bay Area Coating Consultant Services**

1-888-384-6839

Tank # 160052001-1 NB# 125

| | | | |
|---|---|---|---|
| Report # | | | |
| Contractor Start Time: | | Lunch Break: | |
| Contractor Depart Time: | | Total of Crew: | |
| Inspector Hours: | 4 Reg. | | |
| Project Name: | US Filter. Inspect Carbon Tank | | |
| Project Location | Red Bluff, Ca | | |

| | |
|---|---|
| D/H Starting Hours | |
| D/H Ending Hours | |
| Company: | US Filter |
| Foreman: | Britt |
| Inspector: | Craig Williams |

| Time | DB | WB | R/H | D/P | Substrate | High | Low | Location |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| Outside Climatic Conditions: | Sunshine | Cloudy | Fog | Rain | Snow | Wind/MPH |
|---|---|---|---|---|---|---|
| | | | | | | |

| | | | |
|---|---|---|---|
| Anchor Profile: | #1 | #2 | #3 |
| Blast Hose P.S.I.: | #1 | #2 | #3 |
| Air Cleanliness: | (AM) | (PM) | |
| Type of Prep: | Abrasive Blast | Water Blast | Vacuum Blast |
| | Abrasive: | | Size: |

| | | | | | SP# |
|---|---|---|---|---|---|
| Product/Number | | | | | |
| Base Batch # | | | | | |
| Activator Batch # | | | | | |
| Other Component: | | | | | |
| Thinner Batch # & % | | | | | |
| Dwell Time | | | | | |
| Paint Temp: | | | | | |
| Amount Used: | | | | | |

Mixing Procedure: Box Drill Mixing Time:

| WFT / DFT Mil Thickness | | Area Recorded | Surface Type |
|---|---|---|---|
| LID | 39.2 | Interior Lid | Coated Carbon Steel SP-5 |
| Floor | 41.8 | " Floor | " " " " |
| SHELL | 38.9 | " Shell | " " " " |
| | | | |
| | | See Reverse Side | |
| | | | |
| | | | |

Inspectors Signature: C. Williams Date: 4/28/04