

COATCHECK®

Automated field joint coating inspection



Aegion Coating Services, LLC has engineered, designed, built and serviced its own fleet of coating equipment for 30 years. Aegion Coating Services is a global leader in external field joint coating applications for various types of pipeline construction. As specialists in pipeline protection systems, Aegion Coating Services designs and installs protective coatings and specialty products that will extend the life of your assets and infrastructure.

CoatCheck®

CoatCheck® was created to assist inspectors and owners in the tracking of both the coating quality and location of girth welds before they are buried or submerged. Because the industry is becoming more automated, regulated and often strict documentation is required, Aegion Coating Services saw that a need existed for an automated method of tracking quality and assisting owners with a way to more accurately document the work that is being performed on their right-of-way.

CoatCheck® is completed in two stages. The first stage is performed after a blasted/cleaned surface is prepared but prior to coating. The anchor profile is measured, the location is logged and the environmental conditions are recorded. After coating, the second

step in the process requires the unit to take multiple thickness measurements and conduct a holiday test. Each stage takes about a minute to complete. After all data is logged, it is collected and presented in the format seen on the back of this sheet.

Capabilities

- GPS tracking of field joints
- Record environmental conditions
- Blast profile measurement
- Surface temperature measurement
- Visual inspection of joints
- Holiday detection
- Holiday marking
- Custom inspection reports
- Production reports
- Real time coating alerts
- Real time inspection reports

AEGION® | COATING SERVICES

CoatCheck® Field Joint Inspection Report and Summary

Field Joint Inspection Report

Project Name: Pegasus North
 Contractor: XYZ Pipeline, LLC
 Specification: ECU-775-33-FSQ
 Date: 2 Mar 2013 Joint: 7734A22
 Latitude: 50°40'46.461"N Longitude: 95°48'26.533"W



Anchor Profile Time: 12:52 PM
 Operator: Michael Faraday

| Pos | Rep 1 | Rep 2 | Rep 3 | Avg |
|------|-------|-------|-------|-----|
| 0° | 3.6 | 3.5 | 3.6 | 3.6 |
| 90° | 2.1 | 2.5 | 2.2 | 2.3 |
| 180° | 1.6 | 1.3 | 1.8 | 1.6 |
| 270° | 3.8 | 4.2 | 4.1 | 4.0 |

Film Build Time: 3:24 PM
 Operator: Humphrey Davy

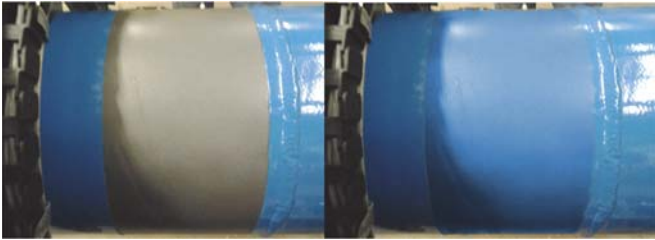
| Pos | Rep 1 | Rep 2 | Rep 3 | Avg |
|------|-------|-------|-------|------|
| 0° | 14.8 | 14.6 | 14.6 | 14.7 |
| 90° | 16.5 | 16.5 | 16.4 | 16.5 |
| 180° | 20.2 | 19.8 | 19.9 | 20.0 |
| 270° | 18.2 | 18.1 | 18.5 | 18.3 |

| | Min | Nom | Max |
|----------|-----|-----|-----|
| Allowed | 1.5 | 2.5 | 4.5 |
| Measured | 1.6 | 2.9 | 4.0 |

| | Min | Nom | Max |
|----------|------|------|------|
| Allowed | 15 | 18 | 25 |
| Measured | 14.7 | 17.3 | 20.0 |

| Surface Temperature | RH | Dewpoint |
|---------------------|-----|----------|
| 75.8°F | 36% | 46.9°F |

| Holidays | Coating appearance: Sags or blisters |
|----------|---|
| 1 | None |



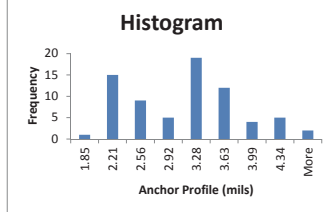
Notes: Failure - Low coating thickness and a holiday

Daily Inspection Summary

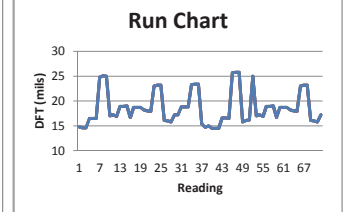
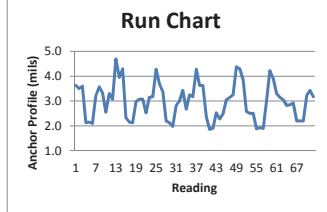
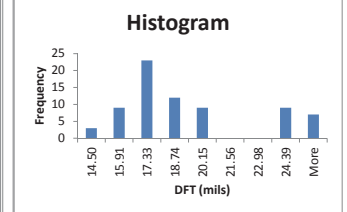
Project Name: Pegasus North
 Contractor: XYZ Pipeline, LLC
 Specification: ECU-775-33-FSQ
 Date: 2 Mar 2013 Joints: 486



Anchor Profile



Film Build



| | Min | Nominal | Max |
|----------|------|---------|-----|
| Allowed | 1.5 | 2.5 | 4.5 |
| Measured | 1.85 | 2.99 | 4.7 |

| | Min | Nominal | Max |
|----------|------|---------|------|
| Allowed | 15 | 18 | 25 |
| Measured | 14.5 | 18.6 | 25.8 |

Anchor profile pass rate: 98.6%
 Holiday pass rate: 93.8%

Film build pass rate: 84.7%
 Number of holidays: 43

Notes: _____

Report prepared by: Willis Whitney

Keeping Specs In Check...

COAT

Automated Coating Inspection

AEGION® COATING SERVICES

Aegion Coating Services, LLC
 10655 Jefferson Chemical Rd.
 Conroe, TX 77301
 936.539.3294
 www.aegioncoatingservices.com