



TUBAL-CAIN MARINE SERVICES



Vapor Tightness Test

Note: Test results are valid for (1) year from date of test!

| | |
|--|---|
| Date: <u>11/11/2016</u> | Official Number: <u>1243228</u> |
| Vessel: <u>E2MS 300</u> | Pressure Indicator: <u>Manometer</u> Method: <u>1 psi Nitrogen</u> |
| Owner: <u>E Squared Marine Service LLC</u> | Testing Location: <u>Tubal-Cain Marine Services Inc.</u> |
| Address: <u>PO Box 324</u> <u>Friendswood, TX 77549</u> | Physical Address: <u>7951 Dock Board Rd</u> <u>Sulphur, LA 70665</u> |

TEST RESULTS

**** Barge is vapor tight if "Total Pressure Loss" is LESS than "Allowable Pressure Loss" ****

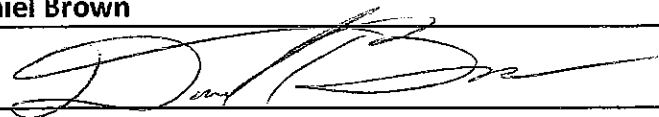
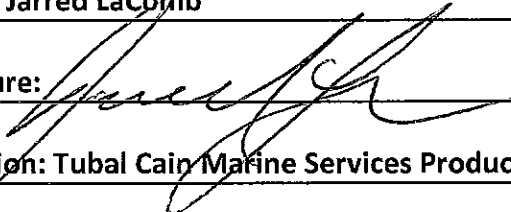
Test cargo tanks and related vapor system to 1 lb.

| | |
|---|-----------------------------------|
| Beginning pressure: <u>28</u> inches H2O | Time started: <u>3:00 PM</u> |
| Ending pressure: <u>27.75</u> inches H2O | Time completed: <u>4:00 PM</u> |
| Total pressure loss: <u>0.25</u> inches H2O | Allowable pressure loss: <u>1</u> |

The following barge was tested in accordance with the national emission standard for benzene emissions from benzene transfer operations, section 40 CFR 61.304 (f) and section 40 CFR 63.565 (c)

SIGNATURES

I credit that the tests contained herein were conducted in compliance with 46 CFR 35.35-70

| |
|---|
| Tester name: Daniel Brown |
| Tester signature:  |
| Witnessing inspector name: Jarred LaComb |
| Witnessing inspector signature:  |
| Witnessing inspector affiliation: Tubal Cain Marine Services Production Manager |

Tu'bal Cain (tu'bal-kan):

Tubal, the smith, the son of Lemech and his wife Zilah, who is described in Genesis 4:22 as fabricating every artifact of brass & iron



**TUBAL-CAIN
MARINE
SERVICES**



Cargo Piping Test Letter

Note: Test results are valid for (1) year from date of test!

| | | | |
|----------|---|-------------------|---|
| Date: | <u>11/11/2016</u> | M.A.W.P.: | <u>125 PSI</u> |
| Vessel: | <u>E2MS 300</u> | Method of Test: | <u>HYDRO</u> |
| Owner: | <u>E Squared Marine Service, LLC</u> | Testing Location: | <u>Tubal-Cain Marine Services Inc.</u> |
| Address: | <u>PO Box 324</u> <u>Friendswood, TX 77549</u> | Physical Address: | <u>7951 Dock Board Rd</u> <u>Sulphur, LA 70665</u> |

TRANSFER SYSTEM TESTING DATA


**** Fill out completely. Write N/A on any non-applicable line. ****

| <u>Date:</u> | <u>Barge Piping:</u> | <u>Results</u> |
|-------------------|----------------------------------|----------------------|
| <u>11/11/2016</u> | <u>Cargo piping & valves</u> | <u>188.5 p.s.i</u> |
| <u>11/11/2016</u> | <u>Cargo pressure gauges</u> | <u>98 % accurate</u> |
| <u>11/11/2016</u> | <u>Steam System</u> | <u>125 p.s.i</u> |

Note: Test each pressure gauges annually, accurate within 10 percent. Test each remote controlled operating or indicating equipment such as remotely operated valve, tank alarm, or emergency shutdown device. 33 CFR 156.170(c)(2) & 46 CFR 35.35-70(b)

SIGNATURES

I credit that the tests contained herein were conducted in compliance with 33 CFR 156.170, 46 CFR 35.35-70.

| |
|---|
| Tester name: Daniel Brown |
| Tester signature:  |

Tu'bal Cain (tu'bal-kan):

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