Material Test Report

COFFER® an AFG Da Company

Heat Code: ZVB

Coffer Corp.

An AFGlobal Company

13770 Industrial Rd. Houston, TX 77015

ISO 9001:2008 Certified

Sales: (713) 868-4421 Fax: (713) 455-8366

PLESA STEEL INC. 00012015 PO: 392 Sales Order: 148435 Line: 8 5100 WESTHEIMER RD STE 200 Item Code: 0301300102-0020F Qty Shipped: 20 Houston, TX 77056 Item Desc: FLG 03.00 0300 WN RF XH A105 NHT COFFR Supplier: CMC Supplier Heat: 3052698 Spec: ASTM A105/A105M-(14)/ASME SA 105/SA 105M-(15) Section II Part A

| Ele | ment (%wt) | Ladle | Product | EPCRA | CAS# | Element (%wt) | Ladie | Product | EPCRA | CAS# |
|-------------------|---|--------------------------------|---------|----------|------------------------|--|--------------------------------|---------|-------|-----------|
| C Mn P S | Carbon Manganese Phosphorous Sulphur | 0.19 0.98 0.012 0.020 | | ✓ | 7439-96-5 | Cr Chromium Mo Molybdenum V Vanadium Cb Columbium | 0.15 0.02 0.001 0.000 | Troduct | ✓ | 7440-47-3 |
| Si Cu Ni | Silicon Copper Nickel | 0.22 0.25 0.08 | | * | 7440-50-8 7440-02-0 | C.E. CuNiCrMoV CrMo | 0.41 0.502 0.171 | | | |
| | | | | | | | | | | |

| Mechanical | Testing | : | Other | |
|----------------------------|-------------------|--------------|-------|--|
| Test Lab | AFG | EF | Y | |
| Test Bar Size | SACRIFICIAL PIECE | Fully Killed | Y | |
| HBW | 167 - 170 | | * | |
| Elg (%) | 29 | | | |
| RA (%) | 55 | : | | |
| Tensile Specimen Size (in) | .490 | | | |
| Tensile (ksi) | 82.5 | | | |
| Yield (ksi) | 48.3 | - | | |
| Gauge Length | 2 | • | | |
| | | | | |
| | | | | |
| | | | | |

Product compliant with NACE MR0175 / ISO 15156 latest edition and flange dimensions to ASME B16.5 - 2013

- * No Weld repair performed.
- * Ladle Chemical Analysis results are reported from the raw material suppliers MTR.
- * Tensile taken from a round specimen. Measurement of elongation after fracture.
- * Yield strength was determined using the .2% offset method.
- * All material supplied under this order is certified to be free of mercury contamination and no mercury bearing equipment was used in manufacturing, fabrication or testing.
- * When reported on MTR: Tensile Testing Per ASTM E8; Brinell Hardness Per ASTM E10; Charpy Testing Per ASTM E23
- * AF Global manufactures materials according to a certified Quality Management System conforming to ISO 9001:2008 and PED 97/23/EC, Annex 1, Section 4.3

The recording of false, fictitious, or fraudulent statement or entries on this document may be punishable as a felony under federal statute.

EPCRA Supplier Notification: This product may contain one or more toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act (Title III of the Superfund Amendments and Reauthorization Act of 1986) and 40 C.F.R. Part 372. Potentially reportable chemicals are indicated with a checkmark in the "EPCRA" column and a Chemical Abstract Services (CAS) registry number is provided for each such chemical in addition to the percent by weight of the chemical present in this product. It is your responsibility alone to determine whether your facility is required to submit a Toxic Release Inventory Report under EPCRA Section 313.

Certification No.:

1223426

Certification Date:

9/15/2015

Issued By:

John Sauceda

This report is issued in compliance with the requirements of EN10204 3.1 / ISO 10474 3.1.b

Rina Sane - Metallurgical Lab Manager