



Carondelet Division

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Material Test Report

ENERGY INDUSTRIES OF OHIO

Purchase Order Number PPPL-FP-LTS-2 Heat Number 29198 Pour Date 4/28/2005
Pattern Number SE-141-073 COIL C SHIM (-3 thru -6 Parts) Cert Number S73220-2 and
SE-141-033 COIL A SHIM (-1 thru -6 Parts) Cert Number S76220-1
CAF Metal Designation CF8MNMnMod
Material Spec CF8MNMN MOD

Revised 8/16/05

| Element | Min | Actual | Max |
|---------|--------|--------|--------|
| C | 0.040 | 0.070 | 0.070 |
| CR | 18.000 | 18.100 | 18.500 |
| MN | 2.300 | 2.970 | 2.800 |
| MO | 2.100 | 2.450 | 2.500 |
| N | 0.240 | 0.255 | 0.280 |
| NI | 13.000 | 13.120 | 13.500 |
| P* | 0.000 | 0.013 | 0.015 |
| S* | 0.000 | 0.010 | 0.015 |
| SI | 0.000 | 0.700 | 0.500 |

MN & SI previously reported on CA 1308 and were accepted.

*P & S taken from test from heat parts were poured from and analyzed by wet chemistry, ASTM E1019-03 for sulfur and Gravimetric for phosphorous.

This report covers the eleven castings poured from heat 29198. Only parts listed above however will be shipped for this order. Each casting has a unique number stamped in the part adjacent to the pattern number to differentiate the part and subsequent reporting that will be traced to the casting.

Respectfully Submitted,
Charles A. Ruud
Quality Assurance Manager

Superior Quality Engineered Metal Products

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