



Carondelet Division

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Material Test Report

ENERGY INDUSTRIES OF OHIO

Purchase Order Number PPPL-FP-LTS-2

Cert Number S75920-2

Pattern Number MCWF-C3

Pour Date 6/10/2005

CAF Metal Designation CF8MNMnMod

Material Spec CF8MNMnMOD

Weighted average of 3 heats - 29716(40%),29717(21%),29720(39%) Total Weight 32016 lbs.

Revised 10/26/05

Element	Min	Actual	Max
C	0.04	0.04	0.07
MN	2.3	2.5	2.8
SI	0.0	0.4	0.7
CR	18.0	18.2	18.5
NI	13.0	13.3	13.5
MO	2.1	2.3	2.5
P*	0.0	0.023	0.035
S*	0.0	0.013	0.025
N	0.24	0.25	0.28

*P & S taken from cast on bar, zones 1,2,&3 and analyzed by wet chemistries, ASTM E1019-03 for sulfur and Colormetric for phosphorous.

PRODUCT ANALYSIS

Results of spectrometer analysis of cast on test bar after spectrometer preventive maintenance performed and at Wisconsin Centrifugal.

***Not analyzed on spectrograph.

Element	CAF after PM	WC Analysis
C	***	0.06
MN	1.6	1.6
SI	0.6	0.6
CR	18.1	18.3
NI	13.5	13.7
MO	2.4	2.4
P	0.023	0.029
S	0.011	0.009
N	***	0.24

Charles A. Ruud
Quality Assurance Manager

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