



Carondelet Division

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Material Test Report

ENERGY INDUSTRIES OF OHIO

Purchase Order Number PPPL-FP-LTS-2

Cert Number S75920-1

Pattern Number MCWF-C2

Pour Date 4/15/2005

CAF Metal Designation CF8MNMnMod

Material Spec CF8MNMnMOD

Weighted average of 3 heats - 29060(46%),29061(25%),29063(29%) Total Weight 29107 lbs.

Revised 10/26/05

Element	Min	Actual	Max
C	0.04	0.06	0.07
MN	2.3	2.8	2.8
SI	0.0	0.5	0.7
CR	18.0	18.0	18.5
NI	13.0	13.2	13.5
MO	2.1	2.3	2.5
P*	0.0	0.023	0.035
S*	0.0	0.018	0.025
N	0.24	0.26	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	***	0.07
MN	1.6	1.6
SI	0.8	.09
CR	18.2	18.2
NI	13.5	13.7
MO	2.3	2.2
P	0.024	0.023
S	0.012	0.014
N	***	0.23

Charles A. Ruud
Quality Assurance Manager

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