



Carondelet Division

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Material Test Report

ENERGY INDUSTRIES OF OHIO

Purchase Order Number PPPL-FP-LTS-2

Pattern Number MCWF-C 6

CAF Metal Designation CF8MNMnMod

Material Spec CF8MNMnMOD

Cert Number 178500-1

Pour Date 11/30/2005

Weighted average of 3 heats -Ladle 1# 31752(39%),Ladle 2 #31753(22%),Ladle 3 # 31756(39%) Total Weight 32217 lbs.

Element	Min	Actual	Max
C	0.04	0.04	0.07
MN*	2.3	2.9	2.8
SI	0.0	0.3	0.7
CR	18.0	18.1	18.5
NI	13.0	13.3	13.5
MO	2.1	2.3	2.5
P	0.0	0.029	0.035
S	0.0	0.012	0.025
N	0.24	0.25	0.28

*Over specification, see CA 1536.

Comparison to WC Analysis

All analysis at CAF was performed after the preventive maintenance.

Lab	I.D.	Sample	C	Si	Mn	Cr	Ni	Mo	N	P	S
Ladle # 1											
CAF	31752	Button #1	0.04	0.3	2.9	18.1	13.3	2.4	0.25	0.026	0.012
CAF	31752	Button #2	*	0.3	2.9	18.1	13.3	2.3	*	0.028	0.011
WC	31752	Button #2	*	0.3	2.8	18.1	13.4	2.3	*	0.027	0.022
Ladle # 2											
CAF	31753	Button #1	0.04	0.3	2.7	18.2	13.3	2.3	0.25	0.027	0.012
CAF	31753	Button #2	*	0.3	2.7	18.2	13.4	2.3	*	0.026	0.011
WC	31753	Button #2	*	0.3	2.6	18.1	13.4	2.3	*	0.025	0.018
Ladle # 3											
CAF	31756	Button #1	0.04	0.4	2.9	18.1	13.2	2.3	0.25	0.034	0.013
CAF	31756	Button #2	*	0.4	2.9	18.1	13.3	2.3	*	0.034	0.011
WC	31756	Button #2	*	0.4	2.7	18.1	13.4	2.3	*	0.030	0.024

Respectfully Submitted,
Charles A. Ruud
Quality Assurance Manager

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