



Carondelet Division

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Material Test Report

ENERGY INDUSTRIES OF OHIO

Purchase Order Number PPPL-FP-LTS-2

Pattern Number MCWF-B1 Coil

CAF Metal Designation CF8MNMnMod

Material Spec CF8MNMnMOD

Cert Number 177210-1

Pour Date 11/11/2005

Weighted average of 3 heats -Ladle 1 #31558(35%),Ladle 2 #31576(28%),Ladle 3 #31579(37%) Total Weight 34109 lbs.

Element	Min	Actual	Max
C	0.04	0.04	0.07
MN	2.3	2.8	2.8
SI	0.0	0.4	0.7
CR	18.0	18.3	18.5
NI	13.0	13.1	13.5
MO	2.1	2.2	2.5
P*	0.0	0.036	0.035
S	0.0	0.012	0.025
N	0.24	0.25	0.28

*Over specification, see CA 1537.

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	31558	Button #1	0.04	0.3	2.9	18.4	13.0	2.3	0.25	0.032	0.012
CAF	31558	Button #2	*	0.3	2.7	18.3	12.9	2.3	*	0.034	0.013
WC	31558	Button #2	*	0.3	2.6	18.2	13.0	2.3	*	0.031	0.019
Ladle # 2											
CAF	31576	Button #1	0.04	0.4	2.7	18.3	13.1	2.2	0.25	0.035	0.012
CAF	31576	Button #2	*	0.4	2.7	18.3	13.2	2.2	*	0.038	0.013
WC	31576	Button #2	*	0.4	2.6	18.2	13.3	2.2	*	0.037	0.020
Ladle # 3											
CAF	31579	Button #1	0.04	0.4	2.9	18.3	13.1	2.2	0.25	0.040	0.012
CAF	31579	Button #2	*	0.4	2.9	18.3	13.1	2.3	*	0.032	0.012
WC	31579	Button #2	*	0.4	2.7	18.1	13.2	2.3	*	0.038	0.019

Respectfully Submitted,
Charles A. Ruud
Quality Assurance Manager

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