



Carondelet Division

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Material Test Report

ENERGY INDUSTRIES OF OHIO

Purchase Order Number PPPL-FP-LTS-2

Pattern Number MCWF-B6 Coil

CAF Metal Designation CF8MNMnMod

Material Spec CF8MNMnMOD

Cert Number 183530-1

Pour Date 4/29/2006

Weighted average of 3 heats - Ladle 1 #33210 (40%), Ladle 2 #33211 (23%), Ladle 3 #33805 (37%) Total Weight 31891 lbs.

Element	Min	Actual	Max
C	0.04	0.04	0.07
MN	2.3	2.7	2.8
SI	0.0	0.4	0.7
CR	18.0	18.1	18.5
NI	13.0	13.2	13.5
MO	2.1	2.3	2.5
P	0.0	0.025	0.035
S	0.0	0.014	0.025
N	0.24	0.25	0.28

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	33210	Button #1	0.04	0.4	2.7	18.2	13.1	2.3	0.25	0.022	0.013
CAF	33210	Button #2	**	0.5	2.5	18.1	13.2	2.3	**	0.024	0.017
WC	33210	Button #2	**	0.7	2.4	18.0	13.4	2.2	**	0.023	0.015
Ladle #2											
CAF	33211	Button #1	0.04	0.3	2.7	18.0	13.1	2.3	0.25	0.029	0.015
CAF	33211	Button #2	**	0.3	2.5	17.9	13.2	2.3	**	0.028	0.016
WC	33211	Button #2	**	0.3	2.5	17.8	13.4	2.3	**	0.025	0.022
Ladle #3											
CAF	33805	Button #1	0.04	0.4	2.6	18.1	13.4	2.3	0.25	0.027	0.014
CAF	33805	Button #2	**	0.4	2.5	17.9	13.4	2.3	**	0.025	0.015
WC	33805	Button #2	**	0.4	2.4	18.0	13.6	2.2	**	0.024	0.019

Respectfully Submitted,
Charles A. Ruud
Quality Assurance Manager

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