



## Carondelet Division

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## Material Test Report

ENERGY INDUSTRIES OF OHIO

Purchase Order Number PPPL-FP-LTS-2

Pattern Number MCWF-A5 Coil

CAF Metal Designation CF8MNMnMod

Material Spec CF8MNMnMOD

Cert Number 176200-1

Pour Date 1/13/2006

Weighted average of 3 heats - Ladle 1 #32126 (39%), Ladle 2 #32127 (22%), Ladle 3 #32130 (39%) Total Weight 32599 lbs.

Element	Min	Actual	Max
C	0.04	0.04	0.07
MN	2.3	2.8	2.8
SI	0.0	0.3	0.7
CR	18.0	18.0	18.5
NI	13.0	13.0	13.5
MO	2.1	2.2	2.5
P	0.0	0.033	0.035
S	0.0	0.013	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	32126	Button #1	0.04	0.3	2.6	17.9	13.0	2.2	0.25	0.027	0.012
CAF	32126	Button #2	**	0.3	2.6	18.0	13.2	2.2	**	0.027	0.012
WC	32126	Button #2	**	0.3	2.4	17.9	13.2	2.2	**	0.027	0.018
Ladle #2											
CAF	32127	Button #1	0.04	0.3	2.9	18.0	13.0	2.1	0.25	0.031	0.014
CAF	32127	Button #2	**	0.4	2.8	18.1	13.2	2.2	**	0.031	0.012
WC	32127	Button #2	**	0.4	2.6	17.8	13.1	2.2	**	0.031	0.024
Ladle #3											
CAF	32130	Button #1	0.04	0.4	2.9	18.1	13.0	2.2	0.24	0.040	0.014
CAF	32130	Button #2	**	0.4	2.9	18.1	13.2	2.2	**	0.034	0.012
WC	32130	Button #2	**	0.4	2.7	17.7	13.2	2.2	**	0.033	0.027

Respectfully Submitted,  
Charles A. Ruud  
Quality Assurance Manager

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