



## Carondelet Division

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## Material Test Report

ENERGY INDUSTRIES OF OHIO

Purchase Order Number PPPL-FP-LTS-2

Pattern Number MCWF-B2 Coil

CAF Metal Designation CF8MNMnMod

Material Spec CF8MNMnMOD

Cert Number S81340-1

Pour Date 2/24/2006

Weighted average of 3 heats - Ladle 1 #32486 (40%), Ladle 2 #32487 (22%), Ladle 3 #32488 (38%) Total Weight 33544 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	18.2	18.5
NI	13.0	13.1	13.5
MO	2.1	2.3	2.5
P	0.0	0.029	0.035
S	0.0	0.014	0.025
N	0.24	0.26	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	32486	Button #1	0.04	0.2	2.7	18.3	13.1	2.3	0.26	0.028	0.014
CAF	32486	Button #2	**	0.2	2.7	18.3	13.1	2.3	**	0.028	0.014
WC	32486	Button #2	**	0.2	2.7	18.1	13.2	2.2	**	0.026	0.030
Ladle #2											
CAF	32487	Button #1	0.04	0.3	2.8	18.3	13.1	2.3	0.25	0.030	0.014
CAF	32487	Button #2	**	0.3	2.8	18.3	13.1	2.3	**	0.030	0.014
WC	32487	Button #2	**	0.3	2.7	18.1	13.2	2.3	**	0.027	0.026
Ladle #3											
CAF	32488	Button #1	0.04	0.3	2.9	18.1	13.0	2.4	0.26	0.030	0.014
CAF	32488	Button #2	**	0.3	2.9	18.1	13.0	2.4	**	0.030	0.014
WC	32488	Button #2	**	0.3	2.6	18.0	13.2	2.4	**	0.027	0.026

Respectfully Submitted,  
Charles A. Ruud  
Quality Assurance Manager

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