



## Carondelet Division

8600 Commercial Blvd. - Pevely, MO 63070 USA  
Phone: 636-479-4499 - Fax: 636-479-3399

## Material Test Report

ENERGY INDUSTRIES OF OHIO

Purchase Order Number PPPL-FP-LTS-2

Pattern Number MCWF-B3 Coil

CAF Metal Designation CF8MNMnMod

Material Spec CF8MNMnMOD

Cert Number 183500-1

Pour Date 3/10/2006

Weighted average of 3 heats - Ladle 1 #32638 (41%), Ladle 2 #32639 (22%), Ladle 3 #32642 (37%) Total Weight 31773 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	18.2	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	0.25	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	32638	Button #1	0.04	0.3	2.8	18.2	13.1	2.3	0.25	0.028	0.014
CAF	32638	Button #2	**	0.3	2.6	17.9	13.5	2.4	**	0.026	0.021
WC	32638	Button #2	**	0.3	2.6	18.1	13.4	2.4	**	0.024	0.024
Ladle #2											
CAF	32639	Button #1	0.04	0.4	2.9	18.2	13.1	2.3	0.26	0.030	0.014
CAF	32639	Button #2	**	0.4	2.6	17.8	13.5	2.4	**	0.026	0.018
WC	32639	Button #2	**	0.4	2.6	17.8	13.4	2.3	**	0.025	0.022
Ladle #3											
CAF	32642	Button #1	0.04	0.6	2.8	18.3	13.2	2.4	0.25	0.030	0.014
CAF	32642	Button #2	**	0.5	2.6	17.9	13.4	2.3	**	0.028	0.017
WC	32642	Button #2	**	0.5	2.6	18.0	13.4	2.3	**	0.026	0.020

  
Respectfully Submitted,  
Charles A. Ruud  
Quality Assurance Manager

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