



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-B5 Coil

CAF Metal Designation CF8MNMnMod

Material Spec CF8MNMnMOD

Cert Number 183520-1

Pour Date 4/13/2006

Weighted average of 3 heats - Ladle 1 #33030 (39%), Ladle 2 #33031 (23%), Ladle 3 #33034 (38%) Total Weight 33861 lbs.

Element	Min	Actual	Max
C	0.04	0.04	0.07
MN	2.3	2.6	2.8
SI	0.0	0.3	0.7
CR	18.0	18.3	18.5
NI	13.0	13.2	13.5
MO	2.1	2.3	2.5
P	0.0	0.027	0.035
S	0.0	0.017	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	33030	Button #1	0.04	0.3	2.5	18.2	13.2	2.2	0.25	0.027	0.016
CAF	33030	Button #2	**	0.3	2.3	17.8	13.2	2.2	**	0.020	0.018
WC	33030	Button #2	**	0.2	2.3	17.6	13.1	2.1	**	0.022	0.027
Ladle #2											
CAF	33031	Button #1	0.04	0.3	2.7	18.5	13.2	2.3	0.25	0.029	0.016
CAF	33031	Button #2	**	0.3	2.4	18.2	13.0	2.2	**	0.029	0.016
WC	33031	Button #2	**	0.3	2.5	18.0	13.0	2.2	**	0.026	0.015
Ladle #3											
CAF	33034	Button #1	0.05	0.3	2.7	18.2	13.1	2.3	0.25	0.026	0.018
CAF	33034	Button #2	**	0.3	2.5	17.8	13.0	2.2	**	0.028	0.016
WC	33034	Button #2	**	0.3	2.5	17.7	13.0	2.1	**	0.027	0.020

Respectfully Submitted,
Charles A. Ruud
Quality Assurance Manager

Superior Quality Engineered Metal Products

www.MetalTekInt.Com