



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-B4 Coil

CAF Metal Designation CF8MNMnMod

Material Spec CF8MNMnMOD

Cert Number 183510-1

Pour Date 3/28/2006

Weighted average of 3 heats - Ladle 1 #32850 (41%), Ladle 2 #32851 (23%), Ladle 3 #32854 (36%) Total Weight 31667 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	13.3	13.5
MO	2.1	2.3	2.5
P	0.0	0.032	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	32850	Button #1	0.04	0.4	2.7	18.1	13.4	2.3	0.25	0.033	0.014
CAF	32850	Button #2	**	0.4	2.5	17.6	13.2	2.2	**	0.027	0.014
WC	32850	Button #2	**	0.4	2.5	17.6	13.2	2.2	**	0.031	0.021
Ladle #2											
CAF	32851	Button #1	0.04	0.3	2.8	17.9	12.9	2.2	0.25	0.030	0.014
CAF	32851	Button #2	**	0.3	2.5	17.5	13.0	2.2	**	0.028	0.017
WC	32851	Button #2	**	0.5	2.5	17.4	13.0	2.2	**	0.027	0.022
Ladle #3											
CAF	32854	Button #1	0.04	0.4	2.6	18.1	13.5	2.4	0.25	0.033	0.014
CAF	32854	Button #2	**	0.3	2.4	17.6	13.4	2.2	**	0.028	0.016
WC	32854	Button #2	**	0.3	2.4	17.6	13.4	2.3	**	0.031	0.027

Respectfully Submitted,
Charles A. Ruud
Quality Assurance Manager

Superior Quality Engineered Metal Products

www.MetalTekInt.Com