



## Carondelet Division

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## Material Test Report

ENERGY INDUSTRIES OF OHIO

Purchase Order Number PPPL-FP-LTS-2

Pattern Number MCWF-A4 Coil

CAF Metal Designation CF8MNMnMod

Material Spec CF8MNMnMOD

Cert Number 176190-1

Pour Date 12/15/2005

Weighted average of 3 heats - Ladle 1 #31897(39%), Ladle 2 #31898(21%), Ladle 3 #31901(40%) Total Weight 30931 lbs.

Element	Min	Actual	Max
C	0.04	0.04	0.07
MN*	2.3	2.9	2.8
SI	0.0	0.4	0.7
CR	18.0	18.0	18.5
NI	13.0	13.3	13.5
MO	2.1	2.2	2.5
P	0.0	0.028	0.035
S	0.0	0.012	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	31897	Button #1	0.04	0.4	2.9	18.0	13.3	2.1	0.26	0.025	0.012
CAF	31897	Button #2	**	0.4	2.9	18.0	13.3	2.1	**	0.025	0.012
WC	31897	Button #2	**	0.4	2.7	17.9	13.4	2.1	**	0.023	0.024
Ladle #2											
CAF	31898	Button #1	0.04	0.4	2.9	18.0	13.2	2.2	0.26	0.032	0.013
CAF	31898	Button #2	**	0.4	2.9	18.0	13.2	2.2	**	0.032	0.013
WC	31898	Button #2	**	0.4	2.7	17.9	13.3	2.2	**	0.031	0.025
Ladle #3											
CAF	31901	Button #1	0.04	0.4	2.9	18.0	13.3	2.2	0.26	0.029	0.012
CAF	31901	Button #2	**	0.4	2.9	18.0	13.3	2.2	**	0.030	0.012
WC	31901	Button #2	**	0.4	2.6	18.0	13.4	2.2	**	0.032	0.025

Respectfully Submitted,  
Charles A. Ruud  
Quality Assurance Manager

Superior Quality Engineered Metal Products

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