



## 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-C3  
CAF Metal Designation CF8MNMnMod  
Material Spec CF8MNMnMOD  
Ladle#1 Heat 29716

Cert Number S75920-2  
Pour Date 6/10/2005

Revised 8/1/05

Element	Min	Actual	Max
C	0.04	0.04	0.07
MN	2.3	2.5	2.8
SI	0.0	0.3	0.5
CR	18.0	18.1	18.5
NI	13.0	13.2	13.5
MO	2.1	2.3	2.5
P*	0.0	-----	0.015
S*	0.0	-----	0.015
N	0.24	0.25	0.28

\* Reported on weighted average MTR see Doc. #4.

Respectfully Submitted,  
Charles A. Ruud  
Quality Assurance Manager

Superior Quality Engineered Metal Products

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Purchase Order Number PPPL-FP-LTS-2  
Pattern Number MCWF-C3  
CAF Metal Designation CF8MNMnMod  
Material Spec CF8MNMnMOD  
Ladle#2 Heat 29717

Cert Number S75920-2  
Pour Date 6/10/2005

Revised 8/1/05

Element	Min	Actual	Max
C	0.04	0.04	0.07
MN	2.3	2.4	2.8
SI	0.0	0.5	0.5
CR	18.0	18.2	18.5
NI	13.0	13.4	13.5
MO	2.1	2.3	2.5
P*	0.0	----	0.015
S*	0.0	----	0.015
N	0.24	0.25	0.28

\* Reported on weighted average MTR see Doc. #4.

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ENERGY INDUSTRIES OF OHIO

Purchase Order Number PPPL-FP-LTS-2  
Pattern Number MCWF-C3  
CAF Metal Designation CF8MNMnMod  
Material Spec CF8MNMnMOD  
Ladle#3 Heat 29720

Cert Number S75920-2  
Pour Date 6/10/2005

Revised 8/1/05

Element	Min	Actual	Max
C	0.04	0.04	0.07
MN	2.3	2.5	2.8
SI	0.0	0.4	0.5
CR	18.0	18.2	18.5
NI	13.0	13.3	13.5
MO	2.1	2.3	2.5
p*	0.0	----	0.015
S*	0.0	----	0.015
N	0.24	0.25	0.28

\* Reported on weighted average MTR see Doc. #4.

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Purchase Order Number PPPL-FP-LTS-2

Cert Number S75920-2

Pattern Number MCWF-C3

Pour Date 6/10/2005

CAF Metal Designation CF8MNMnMod

Material Spec CF8MNMnMOD

Weighted average of 3 heats – 29716(40%),29717(21%),29720(39%) Total Weight 32016 lbs.

Revised 8/1/05

Element	Min	Actual	Max
C	0.04	0.04	0.07
MN	2.3	2.5	2.8
SI	0.0	0.4	0.5
CR	18.0	18.2	18.5
NI	13.0	13.3	13.5
MO	2.1	2.3	2.5
P*	0.0	0.023	0.015
S*	0.0	0.013	0.015
N	0.24	0.25	0.28

\*P & S taken from cast on bar, zones 1,2,&3 and analyzed by wet chemistries, ASTM E1019-03 for sulfur and Colormetric for phosphorous.

\*P is above the specification.

Averages reported, individuals listed below.

Sulfur: Z1 .013	Phosphorous: Z1 .024
Z2 .014	Z2 .025
Z3 .012	Z3 .021

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