



## 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-A1  
CAF Metal Designation CF8MNMnMod  
Material Spec CF8MNMnMOD  
Ladle#1 Heat 29516

Cert Number 169470-1  
Pour Date 5/24/2005

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	0.5	0.5
CR	18.0	18.3	18.5
NI	13.0	13.4	13.5
MO	2.1	2.4	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.

A handwritten signature in black ink, appearing to read "CARU".

Respectfully Submitted,  
Charles A. Ruud  
Quality Assurance Manager

Superior Quality Engineered Metal Products

[www.MetalTekInt.Com](http://www.MetalTekInt.Com)



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Purchase Order Number PPPL-FP-LTS-2

Pattern Number MCWF-A1

CAF Metal Designation CF8MNMnMod

Material Spec CF8MNMnMOD

Ladle#2 Heat 29517

Cert Number 169470-1

Pour Date 5/24/2005

Revised 8/1/05

Element	Min	Actual	Max
C	0.04	0.05	0.07
MN	2.3	2.4	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	2.4	2.5
P*	0.0	----	0.015
S*	0.0	----	0.015
N	0.24	0.26	0.28

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

A handwritten signature in black ink, appearing to read "CARU", located above the printed name of Charles A. Ruud.

Respectfully Submitted,  
Charles A. Ruud  
Quality Assurance Manager

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ENERGY INDUSTRIES OF OHIO

Purchase Order Number PPPL-FP-LTS-2

Pattern Number MCWF-A1

CAF Metal Designation CF8MNMnMod

Material Spec CF8MNMnMOD

Ladle#3 Heat 29519

Cert Number 169470-1

Pour Date 5/24/2005

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	0.4	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	0.26	0.28

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

A handwritten signature in black ink, appearing to read "CARU".

Respectfully Submitted,  
Charles A. Ruud  
Quality Assurance Manager

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Cert Number 169470-1

Pattern Number MCWF-A1

Pour Date 5/24/2005

CAF Metal Designation CF8MNMnMod

Material Spec CF8MNMnMOD

Weighted average of 3 heats - 29516(39%),29517(23%),29519(38%) Total Weight 32422 lbs.

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	0.4	0.5
CR	18.0	18.2	18.5
NI	13.0	13.3	13.5
MO	2.1	2.4	2.5
P*	0.0	0.022	0.015
S*	0.0	0.009	0.015
N	0.24	0.26	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  
Z2 .005  
Z3 .010

Phosphorous: Z1 .025  
Z2 .023  
Z3 .018

Respectfully Submitted,  
Charles A. Ruud  
Quality Assurance Manager

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