



## 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 Heat Number 29198 Pour Date 4/28/2005  
Pattern Number SE-141-073 COIL C SHIM (-3 thru -6 Parts) Cert Number S73220-2 and  
SE-141-033 COIL A SHIM (-1 thru -6 Parts) Cert Number S76220-1  
CAF Metal Designation CF8MNMnMod  
Material Spec CF8MNMN MOD

Revised 9/24/05

Element	Min	Actual	Max
C	0.040	0.070	0.070
CR	18.000	18.100	18.500
MN	2.300	2.970	2.800
MO	2.100	2.450	2.500
N	0.240	0.255	0.280
NI	13.000	13.120	13.500
P*	0.000	0.013	0.035
S*	0.000	0.010	0.025
SI	0.000	0.700	0.700

MN & SI previously reported on CA 1308 and were accepted.

\*P & S taken from test from heat parts were poured from and analyzed by wet chemistry, ASTM E1019-03 for sulfur and Gravimetric for phosphorous.

This report covers the eleven castings poured from heat 29198. Only parts listed above however will be shipped for this order. Each casting has a unique number stamped in the part adjacent to the pattern number to differentiate the part and subsequent reporting that will be traced to the casting.

Specification limits have been updated to latest specification.

Respectfully Submitted,  
Charles A. Ruud  
Quality Assurance Manager

Superior Quality Engineered Metal Products  
[www.MetalTekInt.Com](http://www.MetalTekInt.Com)



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### Final Inspection Report

Customer ENERGY INDUSTRIES OF OHIO  
Pattern: SE-141-073 COIL C SHIM  
S/N 3

Order PPPL-FP-LTS-2

ASTM Metal CF8MNMN MOD

Date 10/28/2005

Type Description	Cert Number	Procedure	Acceptance Criteria	Actual
Liquid Penetrant	S73220-2	CQP - 300 Rev 9	ASTM A903 Level II	Acceptable
Mag Perm	S73220-2	SOP Mag Perm 100 Rev 1	<1.02	Acceptable
Radiographic	S73220-2	Technique # 12726	MSS SP 54	Acceptable
Visual	S73220-2	CQP - 500 REV 4	ASTM A802 LEVEL 2	Acceptable

#### Liquid Penetrant

Technician: Kevin Anderson  
ASNT Level II

Visual  
Technician: Kevin Anderson  
ASNT Level II

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

Respectfully Submitted,  
Charles A. Ruud  
Quality Assurance Manager

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### Certificate of Conformance

ENERGY INDUSTRIES OF OHIO

Order Number PPPL-FP-LTS-2

Pattern SE-141-073 COIL C SHIM

S/N 3

ASTM CF8MNMN MOD

Date 10/28/2005

Cert Number

S73220-2

C shim for C-4 coil was poured from heat number 29198. No weld repairs were necessary.

A handwritten signature in black ink, appearing to read 'CAR', is located above the signature block.

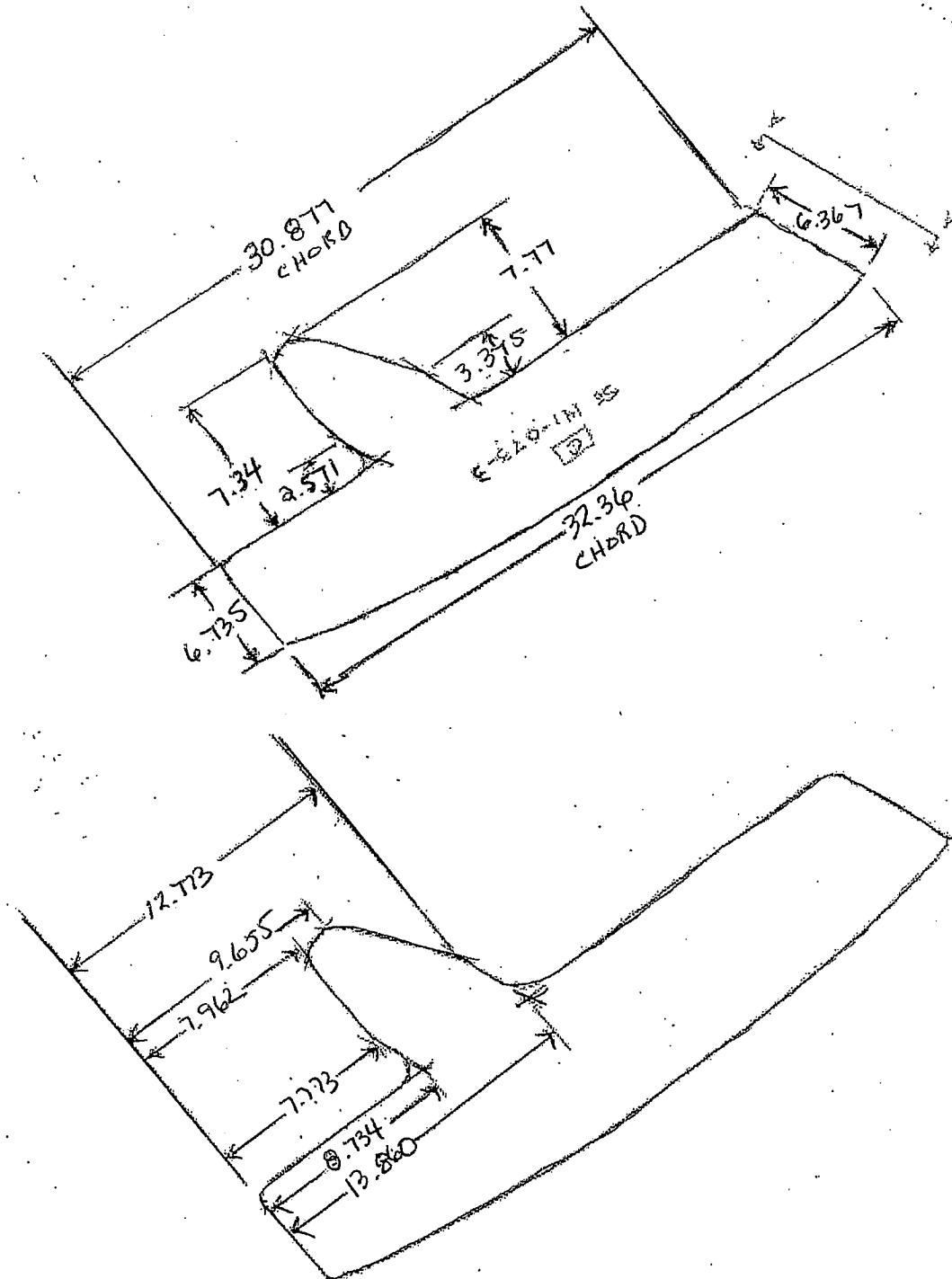
We certify that we have complied in accordance with the drawings(s) and specifications(s) listed on the above purchase order. The articles furnished were made and/or processed from parts and/or materials in accordance with all applicable drawings(s) and specifications(s) pursuant to the afore mention purchase order.

Respectfully Submitted,  
Charles A. Ruud  
Quality Assurance Manager

***Superior Quality Engineered Metal Products***

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CUSTOMER Energy Industries of Ohio		PURCHASE ORDER NUMBER PPPL-FP-213-2				DATE 6-28-05		CONTROL NO. 40851		PAGE 1 of 1	
PART NO. SE-141-073 coil skin		SPECIFICATION E18 b		CLASS see spec		TOTAL PIECES 1		PIECES ACCEPTED 1			
RADIOGRAPHED BY: Moly				INTERPRETED BY: Moly				ASNT LEVEL II			
FILM TYPE SO		MATERIAL CF8M NMMed		ISOTOPE IRIDIUM 192 COBALT 60				CODE ASTM E94 ASME MIL-STD-453			
VIEW		PENE		ACCEPT		REJECT		SHRINK		INCLUSION	
POROSITY		LINEAR		SURFACE		LOF / LOOP		COMMENTS			
MS73220-2		A		50		/					
SN #3		B		/							
		C		/							
		D		/							
		E		/							



3/8" TYP THK

SEC A-A

6

