



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 S/N 5
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 phosphorus.

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



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Final Inspection Report

Customer ENERGY INDUSTRIES OF OHIO
Pattern: SE-141-073 COIL C SHIM
S/N 5

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: Jim Shanahan
ASNT Level II

Visual

Technician: Jason Rees
ASNT Level II

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 5

ASTM CF8MNMN MOD

Date 10/28/2005

Cert Number

S73220-2

C shim for C-5 coil was poured from heat number 29198. No weld repairs were necessary.

A handwritten signature in black ink, appearing to read "CAR", likely representing Charles A. Ruud.

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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FORM CC034



RADIOGRAPHIC STANDARD SHOOTING SKETCH

Customer <u>E. I. O.</u>	Pattern Number <u>MCWF-C5</u>
Material <u>CF8MNMN MOD</u>	Traceability Number
Film Manufacturer <u>FUJI</u>	Source Number <u>E060 22.7 CI</u>
IQI LEVEL <u>2-2T</u> From CQP 401 <input checked="" type="checkbox"/> Other (Specify, E.G. 2-4T, 2-1T) <u>N/A</u>	

Exposures (views)	<u>83-84</u>	<u>103-104</u>	<u>104-105</u>	<u>104-110</u>	<u>H-I</u>	<u>X-Y</u>							
Thickness (IN.)	<u>1 1/2" → 3"</u>	<u>2 3/4"</u>			<u>3" → 6"</u>								
S/F Distance (IN.)	<u>20"</u>												
Penetrameter	<u>30 4060</u>	<u>50 x2</u>			<u>60x2</u>								
Time (MIN.)	<u>15 min</u>	<u>8 min 30 sec</u>		<u>16 min</u>	<u>1 hr 45 min</u>								
Focal Spot (IN.)	<u>.125</u>												
Film Size (IN.)	<u>14x17</u>												
Screen Size (Pb)	<u>.01</u>												
Front/Back													
S.W.E./D.W.E.	<u>SWE</u>												
S.W.V/D.W.V.	<u>SWV</u>												
Film Type	<u>29 80</u>	<u>80x2</u>		<u>59/80</u>	<u>29x2</u>	<u>59 80</u>							
Acceptance Standard	<u>MSS-SP-54</u>												
Severity Level	<u>See SPEC.</u>												

Shooting Sketch (Use Additional Pages as Needed)

Technique Prepared By: Ron Kelley Level: II Date: 11-7-05
 Technique Approved By: _____ Level: _____ Date: _____



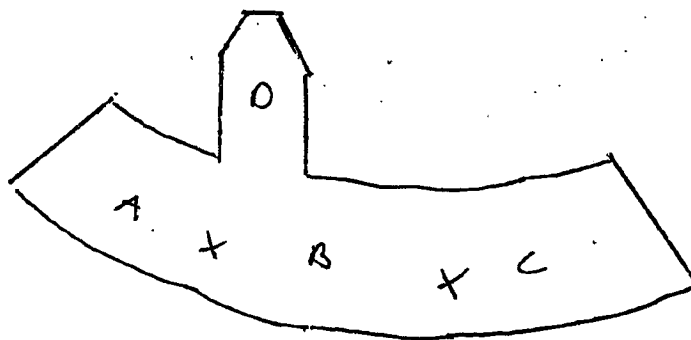
RADIOGRAPHIC STANDARD SHOOTING SKETCH

Customer	<u>Energy Industries of Ohio</u>	Pattern Number	<u>SE-141-073 C skin</u>
Material	<u>CF8mmMN-MOD</u>	Traceability Number	
Film Manufacturer	<u>Fuji</u>	Source Number	<u>C060 24.7 ci</u>
IQI LEVEL <u>2-2T</u> From CQP 401 <input checked="" type="checkbox"/> Other (Specify, E.G. 2-4T, 2-1T) <u>N/A</u>			

Exposures (views)	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>														
Thickness (IN.)	<u>3 7/8"</u>																	
S/F Distance (IN.)	<u>24"</u>																	
Penetrator	<u>50</u>																	
Time (MIN.)	<u>22 min</u>																	
Focal Spot (IN.)	<u>.1</u>																	
Film Size (IN.)	<u>14X17</u>																	
Screen Size (Pb)	<u>.01</u>																	
Front/Back	<u>SWE</u>																	
S.W.E./D.W.E.	<u>SWE</u>																	
S.W.V./D.W.V.	<u>SWV</u>																	
Film Type	<u>80</u>																	
Acceptance Standard	<u>E186</u>																	
Severity Level	<u>III</u>																	

Shooting Sketch (Use Additional Pages as Needed)

use spec. MSS-SP-54



TYP. Source Placement

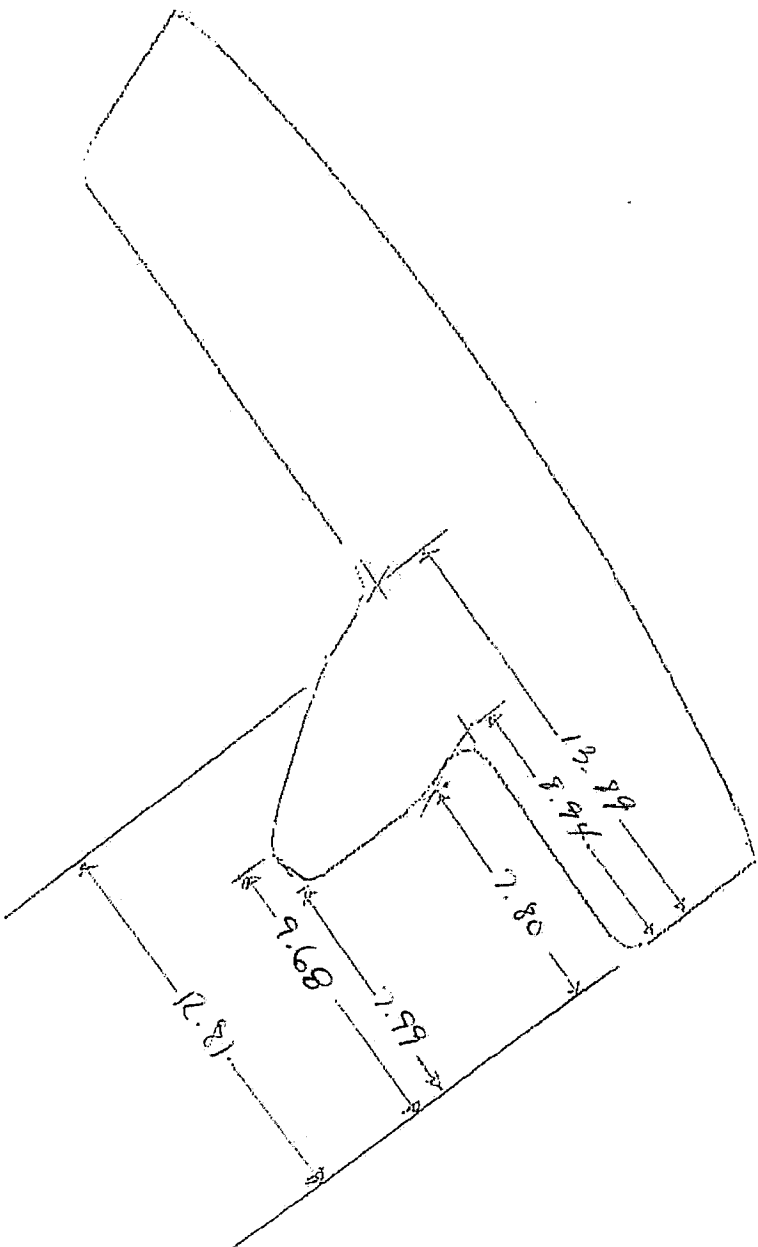


TYP. Film Placement

Technique Prepared By: RON Kelley
Technique Approved By: RS

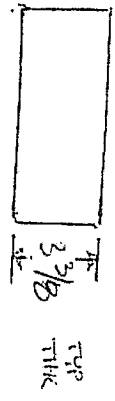
Level: II
Level: III

Date: 9-9-05
Date: 9/10/05



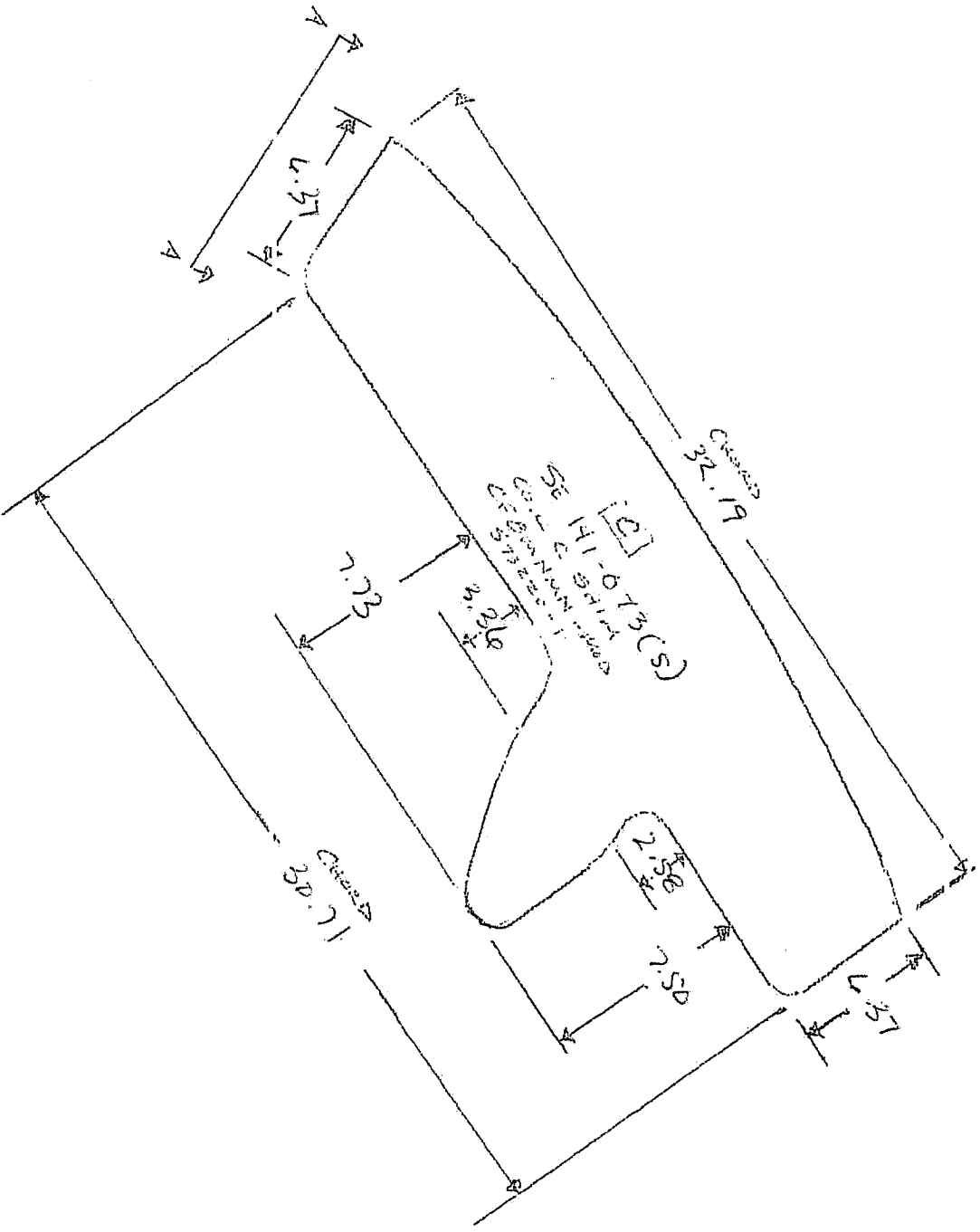
PAGE 2 OF 2.
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 SIM 56 141-073

Q A



Sheet A-A

HIM SE 141-073
 SKETCH 9/12/05
 [Signature]
 Page 1 of 2



A+C Shims Ctr

