



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 S005242-F CHG ORD 1

Pattern Number SE141-142 LONG

CAF Metal Designation CF8MNMnMod

Material Spec CF8MNMN MOD

Cert Number S82730-1

Pour Date 3/29/2006

Number of Pieces 1

Element	Min	Actual	Max
C	0.040	0.043	0.070
CR	18.000	18.100	18.500
MN	2.300	2.480	2.800
MO	2.100	2.190	2.500
N	0.240	0.240	0.280
NI	13.000	13.160	13.500
P	0.000	0.023	0.035
S	0.000	0.011	0.025
SI	0.000	0.190	0.700

The certificate is produced with EDP and valid without signature.

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

Respectfully Submitted,
Charles A. Ruud
Quality Assurance Manager

Superior Quality Engineered Metal Products

www.MetalTekInt.Com



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Certificate of Conformance

ENERGY INDUSTRIES OF OHIO

Order Number S005242-F CHG ORD 1

Pattern SE141-142 LONG

ASTM Metal CF8MNMN MOD

Date 5/11/2006

Cert Number

S82730-1

A handwritten signature in black ink, appearing to read "C. Ruud", is positioned above the certification text.

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

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Final Inspection Report

Customer Name: ENERGY
INDUSTRIES OF
OHIO

Pattern: SE141-142 LONG

Order Number: S005242-F CHG ORD 1

ASTM Metal CF8MNMN MOD

Date 5/11/2006

Type Description	Cert Number	Procedure	Acceptance Criteria	Actual
Liquid Penetrant	S82730-1	CQP - 300	ASTM A903 Level II	Acceptable
Mag Perm	S82730-1	SOP Mag Perm 100 Rev 1	<1.02	Acceptable
Visual	S82730-1	CQP - 500	ASTM 802 Level 2	Acceptable

A handwritten signature in black ink, appearing to read "C. Ruud", is written over a white background.

Respectfully Submitted,
Charles A. Ruud
Quality Assurance Manager

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Material Test Report

ENERGY INDUSTRIES OF OHIO

Purchase Order Number S005242-F CHG ORD 1

Pattern Number SE141-142 LONG

CAF Metal Designation CF8MNMnMod

Material Spec CF8MNMN MOD

Cert Number S82730-4

Pour Date 4/7/2006

Number of Pieces 5

Element	Min	Actual	Max
C	0.040	0.040	0.070
CR	18.000	18.120	18.500
MN	2.300	2.670	2.800
MO	2.100	2.220	2.500
N	0.240	0.250	0.280
NI	13.000	13.180	13.500
P	0.000	0.020	0.035
S	0.000	0.012	0.025
SI	0.000	0.160	0.700

The certificate is produced with EDP and valid without signature.

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

Respectfully Submitted,
Charles A. Ruud
Quality Assurance Manager

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Certificate of Conformance

ENERGY INDUSTRIES OF OHIO

Order Number S005242-F CHG ORD 1

Pattern SE141-142 LONG

ASTM Metal CF8MNMN MOD

Date 5/11/2006

Cert Number

S82730-4

A handwritten signature in black ink, appearing to read "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
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Final Inspection Report

Customer Name: ENERGY
INDUSTRIES OF
OHIO

Pattern: SE141-142 LONG

Order Number: S005242-F CHG ORD 1

ASTM Metal CF8MNMN MOD

Date 5/11/2006

Type Description	Cert Number	Procedure	Acceptance Criteria	Actual
Liquid Penetrant	S82730-4	CQP - 300	ASTM A903 Level II	Acceptable
Mag Perm	S82730-4	SOP Mag Perm 100 Rev 1	<1.02	Acceptable
Visual	S82730-4	CQP - 500	ASTM 802 Level 2	Acceptable

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

Respectfully Submitted,
Charles A. Ruud
Quality Assurance Manager

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RADIOGRAPHIC INTERPRETATION REPORT

S:DRIVE/MANUAL FORMS/RADIOGRAPHY
RIR-01 REV. 0 6/9/03

MetalTek

INTERNATIONAL

RADIOGRAPHIC INTERPRETATION REPORT

CUSTOMER E.I.O.		PURCHASE ORDER NUMBER 5005242-F CHG-ORDI				DATE 4-17-06		CONTROL NO. 43465		PAGE 1 of 2	
PART NO. SE 141-142 Long		SPECIFICATION E 446		CLASS SEE SPEC		TOTAL PIECES 32		PIECES ACCEPTED 32			
RADIOGRAPHED BY: Kelley				INTERPRETED BY: Kelley				ASNT LEVEL II			
FILM TYPE 80		MATERIAL CF8NMNMOD		ISOTOPE IRIDIUM 192 COBALT 60 /				CODE ASTM E94 / ASME MIL-STD-453			
		VIEW		PENE		ACCEPT		REJECT		SHRINK	
						INCLUSION		POROSITY		LINEAR	
								SURFACE		LOF / LOP	
										COMMENTS	
MS82730											
RT 13		A		25 /						Film Dirt	
RT 14		A		/							
RT 15		A		/							
RT 16		A		/							
RT 17		A		/							
RT 18		A		/							
RT 19		A		/							
RT 20		A		/							
RT 21		A		/							
RT 22		A		/				1			
RT 23		A		/							
RT 24		A		/						/	
RT 25		A		/							
RT 26		A		/							
RT 27		A		/						Film Dirt	
RT 28		A		/							
RT 29		A		/							
RT 30		A		/							
RT 31		A		/							
RT 32		A		↓ /				1		/ Film Dirt	

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INTERNATIONAL

RADIOGRAPHIC INTERPRETATION REPORT

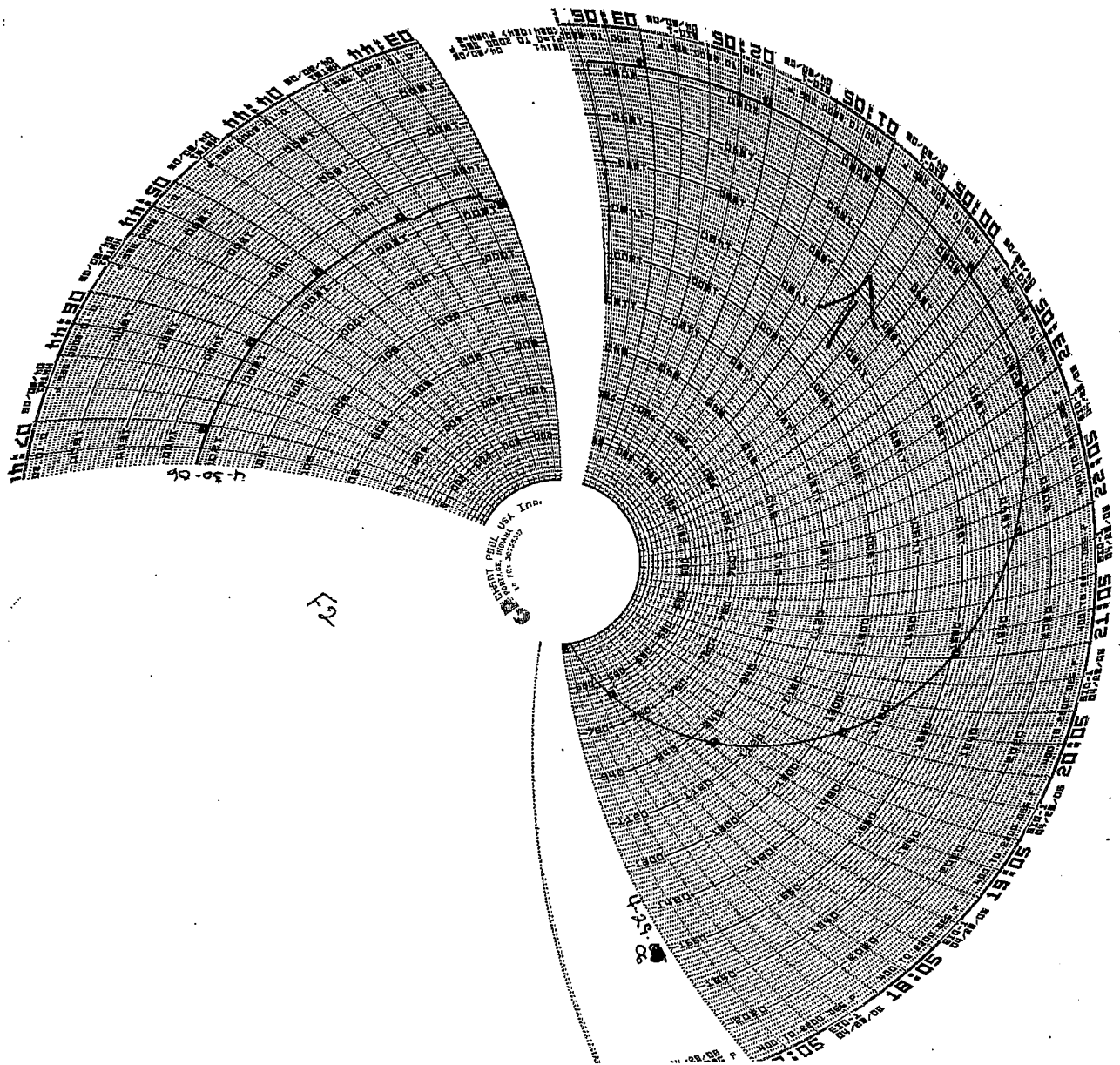
CUSTOMER E.I.O.		PURCHASE ORDER NUMBER 5005242-F CHG-ORDI				DATE 4-17-06		CONTROL NO. 43465		PAGE 2 of 2		
PART NO. SE-141-142-Long		SPECIFICATION E446		CLASS See Spec		TOTAL PIECES 32		PIECES ACCEPTED 32				
RADIOGRAPHED BY: Kelley				INTERPRETED BY: Kelley				ASNT LEVEL II				
FILM TYPE 80		MATERIAL CF8MNMN MOD		ISOTOPE IRIDIUM 192 COBALT 60 /				CODE ASTM E94 / ASME MIL-STD-453				
		V I E W	P E N E	A C C E P T	R E J E C T	S H R I N K	I N C L U S I O N	P O R O S I T Y	L I N E A R	S U R F A C E	L O F / L O P	COMMENTS
MS82730												
RT 33		A	25	/								
RT 34		A	1	/			1					
RT 35		A		/						/		
RT 36		A		/						/		
RT 37		A		/								
RT 38		A		/						/		
RT 39		A		/								
RT 40		A		/								
RT 41		A		/								
RT 42		A		/			1					
RT 43		A		/								
RT 44		A		/		1						

Revision: Org Dated Issued:3-25-06

Layout First Article Report approved: CAC Date: 5/10/06
Sample layout for balance of parts approved: CAC Date: 5/10/06

Acceptance criteria

FINAL VISUAL INSPECTION CQP-500 REV 4 MUST BE PERFORMED BY A VT - LEVEL II	VISUALLY INSPECT 100% of COMPONENT ACCORDING TO ASTM A802 LEVEL 2 ALL CONDITIONS.
FINAL L.P. CQP 0300 REV 10 MUST BE PERFORMED BY A LP - LEVEL II	100% OF COMPONENT. ACCEPTANCE PER ASTM A903. ACCEPTANCE CRITERIA-LEVEL 2 ALL AREAS. STAMP PART WITH A "P" TO INDICATE ACCEPTANCE OF VISUAL AND LP INSPECTION.
FINAL MAG PERM INSPECTION SOP MAG PERM 100, REV 1	PERFORM MAG PERM TESTING WITH SEVRIN GAUGE. ACCEPTANCE 1.02. CHECK THE ENTIRE SURFACE ON A 6"BY6" GRID. STAMP PART WITH A "G" TO INDICATE ACCEPTANCE OF MAG PERM INSPECTION.



E10 4.29.06
 SLE 141-141 SHORT
 S82720-4
 12Pos.
 SE 141-142 LONG
 S82730-1 1Pos.
 S82730-4 5Pos.