

MetalTek

INTERNATIONAL

RADIOGRAPHIC INTERPRETATION REPORT

CUSTOMER Energy Industries of Ohio		PURCHASE ORDER NUMBER 28030003				DATE 1-19-05		CONTROL NO. 40851		PAGE 10 of 6	
PART NO. MCWF-C1		SPECIFICATION MSS-SP-54		CLASS See Spec		TOTAL PIECES 1		PIECES ACCEPTED 1			
RADIOGRAPHED BY: Cooperheat/MQS		INTERPRETED BY: Kelley/Suria				ASNT LEVEL II					
FILM TYPE Kodak	MATERIAL CF8M NNNM			ISOTOPE IRIDIUM 192				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
CRT.1											
Inside Rail	1-2	60 120	/						/		excavation
	2-3	60 120	/						/		excavation
	3-4	60 120	/		2				/		excavations Light Leak
	4-5		/		3				/		excavations
	5-6		/						/		excavation
	6-7	60 120	/						/		excavation
	7-8	60 120	/								
	8-9	60 120	/						/		excavation Film scratches
	9-10		/						/		excavation
	10-11		/						/		excavations
	11-12		/						/		excavations
	12-13		/		2				/		excavations
	13-14			X			X				>LIII
	14-15		/				2		/		Film crimp-excavations
	15-16		/						/		Light Leak-excavations
	16-17		/						/		excavations
	17-18		/						/		excavations
	18-19		/						/		excavations
	19-20		/						/		excavations
	20-21		/						/		excavations

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PART NO. <i>MCWF-C1</i>		SPECIFICATION <i>MSS-SP-54</i>		CLASS <i>See Spec</i>		TOTAL PIECES <i>1</i>		PIECES ACCEPTED <i>1</i>	
RADIOGRAPHED BY: <i>Cooperheat/MQS</i>		INTERPRETED BY: <i>Kelley/Saria</i>				ASNT LEVEL <i>#</i>			
FILM TYPE <i>Kodak</i>	MATERIAL <i>CF8M N/A Mod</i>		ISOTOPE <i>var. an model 62000</i>				CODE		
			<i>IRIDIUM 192 COBALT 60</i>				<i>ASTM E94 ✓ ASME MIL-STD-453</i>		
	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
<i>CRT.1</i>									
<i>Inside Rail</i>	<i>21-22</i>	<i>60 120</i>		<i>X</i>	<i>X</i>				
<i> </i>	<i>22-23</i>	<i> </i>	<i>✓</i>					<i>✓</i>	<i>1 excavations Processor Marks</i>
<i> </i>	<i>23-24</i>	<i> </i>	<i>✓</i>					<i>✓</i>	<i>excavations</i>
<i> </i>	<i>24-25</i>	<i> </i>	<i>✓</i>					<i>✓</i>	<i>excavation Processor Marks</i>
<i> </i>	<i>25-26</i>	<i> </i>	<i>✓</i>						<i>11</i>
<i> </i>	<i>26-27</i>	<i> </i>	<i>✓</i>				<i>2</i>		<i>Processor Marks</i>
<i> </i>	<i>V28</i>	<i> </i>	<i>✓</i>				<i>2</i>	<i>✓</i>	<i>excavation</i>
<i> </i>	<i>29-30</i>	<i> </i>	<i>✓</i>				<i>2</i>	<i>✓</i>	<i>excavations</i>
<i> </i>	<i>30-1</i>	<i> </i>	<i>✓</i>				<i>2</i>	<i>✓</i>	<i>excavations Processor Marks</i>
<i>↓</i>									
<i>Body</i>	<i>1-2</i>	<i>50</i>	<i>✓</i>			<i>2</i>		<i>✓</i>	<i>Excavations</i>
<i> </i>	<i>2-3</i>	<i> </i>	<i>✓</i>					<i>✓</i>	<i>Excavations</i>
<i> </i>	<i>3-4</i>	<i> </i>	<i>✓</i>					<i>✓</i>	<i>Excavations, Processor Mark</i>
<i> </i>	<i>4-5</i>	<i> </i>	<i>✓</i>					<i>✓</i>	<i>Excavations</i>
<i> </i>	<i>5-6</i>	<i> </i>	<i>✓</i>					<i>✓</i>	<i>Excavations</i>
<i> </i>	<i>7-8</i>	<i> </i>	<i>✓</i>			<i>2</i>		<i>✓</i>	<i>Excavation</i>
<i> </i>	<i>8-9</i>	<i> </i>		<i>X</i>				<i>X</i>	<i>Excavation</i>
<i> </i>	<i>9-10</i>	<i> </i>	<i>✓</i>				<i>2</i>	<i>✓</i>	<i>Excavations</i>
<i> </i>	<i>11-12</i>	<i> </i>	<i>✓</i>					<i>✓</i>	<i>Excavation</i>
<i>↓</i>	<i>12-13</i>	<i>↓</i>	<i>✓</i>						

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PART NO. MCWF-C1		SPECIFICATION MSS-SP-54		CLASS SeeSpec		TOTAL PIECES 1		PIECES ACCEPTED 1			
RADIOGRAPHED BY: Cooperheat/MQS		INTERPRETED BY: Kelly/Suria				ASNT LEVEL II					
FILM TYPE Kodak	MATERIAL CF8MNMV Mod		ISOTOPE Varian model 62000 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
CRT.1											
Body	13-14	50	/								
	15-16		/						/		Excavations Processor Marks
	16-17		/						/		
	18-19		/						/		Excavations
	19-20		/						/		Excavations
	20-21		/						/		Excavations
	21-22		/						/		Excavations
	23-24		/	X	X				/		Excavations
	24-25		/						/		Excavations
	26-27		/						/		Excavations
	27-28	↓	End manifold	X	X				/		
	29-30	30	/	X	X				/		
	30-31		/						/		excavation- Processor Marks
	32-33		/						/		
	33-34		/						/		Processing Marks
	35-36		/						/		excavations, Film Scratch
	36-37			X	X						
	38-39		/						/		excavations
	39-40	↓		X	X						
↓	41-42	30 40		X	X						

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PART NO. MCWF-C1		SPECIFICATION MSS-SP-54		CLASS SeeSpec		TOTAL PIECES 1		PIECES ACCEPTED 1			
RADIOGRAPHED BY: Cooperheat/MRS				INTERPRETED BY: Kelley/Suria				ASNT LEVEL II			
FILM TYPE Kodak		MATERIAL CF8M N/A Mod		ISOTOPE varian model 62000 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
CRT.1											
Body	42-43	30 40	/						/		excavation-Processor Mark
	44-45		/								Processor Marks
	45-46		/			1			/		excavation-Processor Mark
	47-48		/			2			/		excavation-Processor Mark
	48-49	↓		X	X						
	50-51	↓	/						/		excavation-Processor Mark
	52-53	30 100 40 140		X	X						
	53-54	↓	/						/		excavation- Film Scratch
	54-55	30 40 100	/						/		excavation- Film scratches
	55-56	↓	/								
	56-57	↓	/						/		excavation-Processor Marks
	57-58	60 140		X	X						
	58-59	30 40	/		1	1			/		excavation- Light Leak
	59-60		/						/		excavations
	60-61		/								
	62-63	↓	/			1	1		/		excavations
	63-64	30	/			1			/		excavations
	65-66	60 180 140 200	/						/		excavations
	67-68	30 60 40 40		X	X						
	68-69	30	/		1				/		excavations

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PART NO. MCWF-C1		SPECIFICATION MSS-SP-54		CLASS See Spec		TOTAL PIECES 1		PIECES ACCEPTED 1	
RADIOGRAPHED BY: Cooperheat/MRS		INTERPRETED BY: Kelly/Suria		ASNT LEVEL II					
FILM TYPE Kodak	MATERIAL CF8Mw Mod		ISOTOPE Varian model 62000 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
CE.T.1									
Body	69-70	30 100 40 120		X	X				
	71-72	30 80 50 80 60 100	/						Processor Marks
	72-73	↓	/					/	excavation - Film scratch
	73-74	30 80 40 80	/			1		/	excavation Film scratch
	74-75	↓	/					/	Excavations, crimp
	75-76	30 40	/					/	
	76-77	↓	/					/	Excavations
	78-79	30 60 40 60	/					/	Processor marks
	79-80	30 40	/					/	
	80-81	↓	/					/	
	81-82	↓	/			1		/	
	83-84	30 60 40 60	/					/	
	85-86	30 40	/					/	
	86-87	30 120 40 120	/					/	
	87-88	30 40	/					/	
	88-89	30 60 40 60	/	X	X			/	
	90-91	30 40	/					/	
	92-93	↓	/					/	Excavation
	V94	50	/	X	X			/	
↓	V95	↓	/					/	Processor Mark

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PART NO. MCWF-C1		SPECIFICATION MSS-SP-54		CLASS See Spec		TOTAL PIECES 1		PIECES ACCEPTED 1			
RADIOGRAPHED BY: Cooperheat/MRS				INTERPRETED BY: Kelly/Suria				ASNT LEVEL II			
FILM TYPE Kodak		MATERIAL CF8M		ISOTOPE Varian model 6200 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
C.R.T.I Body		96-97	50	/					/		Excavations
		97-98		/					/		Excavations
		98-99		/					/		
		100-101			X	X					
		101-102			X	X			/		Excavations
		102-103		/					/		Excavations
		103-104			X	X			/		Excavations
		104-105			X	X			/		excavations
		106-107			X			X	/		excavations
		107-108		/			1		/		
		108-109		/					/		excavations
		109-110			X	X			/		excavations
		111-112		/					/		excavations - Processor marks
		112-113		/			1		/		Film scratch excavations
		114-115			X			X			
		115-116		/					/		excavations - Processor Marks
		116-117			X			X			
	V64	20 30		X	X						

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CUSTOMER Energy Industries of OHIO		PURCHASE ORDER NUMBER 2803 0003				DATE 3-19-05		CONTROL NO. 40851		PAGE 1 of 2	
PART NO. MCWF-C1		SPECIFICATION ASS-SP-54		CLASS See Spec		TOTAL PIECES 1		PIECES ACCEPTED 1			
RADIOGRAPHED BY: Cooperheat/MRS				INTERPRETED BY: Cooperheat/MRS/Kella/Hedge				ASNT LEVEL II			
FILM TYPE Kodak		MATERIAL CF8M WNW Mod		ISOTOPE varian model 2600 IRIDIUM 192 COBALT 60				CODE ASTM E94 / ASME MIL-STD-453			
Repair views		VIEW		ACCEPT		REJECT		SHRINK		INCLUSION	
CPT-1		PENE		CORROSION		LINEAR		SURFACE		LOF/LOP	
Body		8-9		50		/		/		Film Mark	
		23-24		/							
		27-28		/							
		29-30		30		X		RBR		X	
		36-37		/		1		1			
		39-40		/				/			
		41-42		30/40		/		1			
		48-49		/		1		1		/	
		52-53		30/40 100/140		/		2		1	
		57-58		60/140		/				/	
		67-68		30/40 60		/				/	
		69-70		30/100 40/120		/		1			
		88-89		30/40 60		/		RBR		2	
		V94		50		/				OK R.S	
		100-101		/		3					
		101-102		/		3					
		103-104		/		3					
		104-105		/		1					
		106-107		/		RBR		2		RBR	
W		109-110		/		2					

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PART NO. MCWF-C1		SPECIFICATION MSS-SP-54		CLASS sec spec		TOTAL PIECES 1		PIECES ACCEPTED 1				
RADIOGRAPHED BY: Cooper Heat/MQS		INTERPRETED BY: Midgett				ASNT LEVEL II						
FILM TYPE Kodak		MATERIAL LF8MNMNMmod		ISOTOPE Varian Model 16000 IRIDIUM 192 COBALT 60				CODE ASTM E94 7 ASME MIL-STD-453				
Repair views		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
CRT-1												
Body		114-115	50	/			1	1		/		
↓		116-117	↓	/		2						Processing Mark
↓		V64	30	/			1	1				
Inside Rail		13-14	60/120	/								
↓		21-22	↓	/		2						
Body		29-30	30	/		1	1	1				