112945

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS 4X 0040
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1.	Manufactured and certified by ENERGY EXCHANGER COMPANY, 1844 NORTH GARNETT ROAD, TULSA, OK 74116  (Name and address of Manufacturer)																	
	Manufactured for SOUTHERN COMPANY SERVICES, INC. 42 INVERNESS CENTER PARKWAY BIRMINGHAM, AL 35242  (Name and address of Purchaser)																	
3.	Location of installation MISSISSIPPI POWER CO., DEKALB, MS.																	
	HORIZ.  (Horiz., vert., or sphere)							HEAT EXCHANGER X-7931 (Tenk, separator, jkt. vessel, heat exh., etc.) (Mig's serial No.)										
	X-793							-A REV. 4 5966 2011										
6	ASME Code Ser	III. Div	1 2007	EDITION (	(Drav	Drawing No.) (Nat'l Bd. No.) (Year built)												
5. ASME Code, Section VIII, Div. 1 2007 EDITION (2009 ADDENDA)  [Edition and Addenda (date)] (Code Case No.) (Special Service per UG-120(d))												-						
item	is 6-11 incl. to be	compl	eted for	single wa	li vəssels, ja	cket	s of jac	cketed	vesse.	is, shell of hea	it exchange	rs, or c	hamber of multi	chamb	er vessels.			
	Course(	3 / 1  Material Thickness					Long. Joint (Ca	at. A)	Circum. Joint (Cat. A, B, & C			Heat Treatn	nent					
No			) Spec.	Spec./Grade or Type		Nom.	Corr.	Type Full, Spot, No			Type Full, Spot, None		-	Temp.	Time			
2	28" I.D. 8'-0"		S	SA-516-70		3/8"	1/8"	1	SPOT	0.85	1	SPOT	0.85					
1	28" I.D.	8" I.D. 7'-10 5/8" SA-516-7		A-516-70		3/8"	1/8"	1	SPOT	0.85	1	SPOT	0.85					
1	34 3/4" I.D.	S	SA-516-70			1/8"	1	SPOT	0.85	1	NONE	1.0		***				
7.	7. Heads: (a) SA-516-70 (b) (Matt Spec. No., Grade or Type) (H.T Time & Temp.) (Matt Spec. No., Grade or Type) (H.T Time & Temp.)																	
-				Ra				lliptical Coni-		Hemispherical	Flat	Side to Pressure		Category A				
	Location (Top, Bottom, Ends)		Corr.	Crown			latio	Apex A		Radius	Diameter	Conv		Type	Full, Spot, None	Eff.		
(a)	END	5/16"	1/8"			:	2:1		$\neg$				X	S	NONE	1.00		
(b)		İ		-														
9. 10. 11. Item	Coscribe as oges & weld, bar, etc.)   If bolted, describe or sketch.																	
		-lost na	Mell Sec	c. No.)]		Dia., in			_	(Nom. thk., in.)		100	orr. Allow., in.)		(Attachment)			
13	Tubes:		A-214	J. 140.//		3/4"			0	.083" THK (MI	N)	(00	125		"U"			
Item		n Spec. e comp	No., Grad oleted fo	or Type) r inner cha	(0	).D., ir	1.)	sels oi	א) chani	om. thk., in. or gau	(changers.		(Number) 0'-9 5/8"		(Type (Strait or U	))		
	Course(	s)			Material		Thic	kness		Long. Joint (Ca	at. A)	Circu	m. Joint (Cat. A, I	3, & C)	Heat Treatm	nent		
No	Diameter, in.	Lengt	h (ft & in.	) Spec.	/Grade or Typ	e	Nom.	Corr.	Туре	Full, Spot, No	Contract of the last	Туре	Full, Spot, None	-	Temp.	Time		
1	28" I.D.	0'-	9 5/8"	S	A-516-70		3/8"	1/8"	1	SPOT	0.85	1	SPOT	0.85	1150° F.	1-Hr.		
15.	Heads: (a)		(Mat'l Sp		A-516-70N e or Type) (H.T.	Tim	o & Ten	np.)		(b)	(M	atī Spec.	No., Grada or Typa)	(н.т т	me & Temp.)			
	Location (Top, Thickness			Ra				liptical Coni		Hemispherical	Flat	Side to Pressure		Category A				
	Bottom, Ends)	Min.	Corr.	Crown	Knuckle	R	atio	Арех А	ngle	Radius	Diameter	Conv	ex Concave	Туре	Full, Spot, None	Eff.		
(a)		2 3/8"	3/16"								29 3/8"							
(b)	J									d-W-								
If rea	movable, bolts us	ed (de	scribe o	ther faster	ning)						SA-193B7 at Spec. No.,			-		·····		

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		FORM U-1 (Back)			°F Min. design metal temp. 10 °F at 185							
16	6. MAWP 185	MAWP 185 psi at max. temp		np	(internal)	(external)		°F Min. design r	netal temp		t <u>185</u> psi.	
	7. Impact test	NO, E	XEMPT P	ER UG-20	(f),		at test temperature of °F.					
	Lludes annu or on	mb Toet	press.	dicate yes or 245	no and the co	mponent(s) in P.S.I.G.	npact lested]	oof test				
	<ol> <li>Hydro., pneu., or cor</li> <li>Nozzles, inspection,</li> </ol>					1.0.1.0.		201 1031				
, . 			Diameter	Flange	Mate	erial	Nozzle T	nickness	Reinforcement	How At	tached	Location
١,	Purpose Inlet, Outlet, Drain, etc.)	No.	or Size	Type	Nozzle	Flange	Nom.	Corr.	Material	Nozzle	Flange	(Insp. Open.)
INLET/OUTLET 1/1 14"-150# RF-WN SA-106B SA-105 .500" 1/8" WELD WELDED WELDED SHI											SHELL	
INCEL 1 3-100% 11-4414 GA 1005 GA 100 1100											CHANNEL	
Г	OUTLET	1	3"-150#	FF-WN	SA-106B	SA-105	.438"	1/8"	WELD	WELDED	WELDED	CHANNEL
	VENT/DRAIN	1/1	1"-150#	RF WN	SA-105		.500"	1/8"	WELD	WELDED		CHANNEL COVER
L												
_												
H												
-									4.			
_	o O de Chid	NO L	100	Loos		Othere		(2)Saddle	s Attached		WELDED TO	SHELL
20	0. Supports: Skirt	es or no)	(No.)	— regs	(No.)	_ Ciners		(Describe)	7111101100		(Where and	how)
2	1. Manufacturer's Part	al Data F	Reports prope	rly identifie	d and sign	ed by Cor	nmissione	ed Inspect	ors have been fur	nished for the	following iter	ns of the report:
	(List the name of pa	rt, item n	umber, mfg's	name and	d identifying	g number)						
22. Remarks: SERVICE: LP VENT GAS COMPRESSOR PRE COOLER; P.O. NO: 17497-0001; ITEM NO.: HX0040; SIZE: 28-288: TYPE: AGU												
TUBES DESIGNED W/ 0" C.A., SAFETY RELIEF DEVICES BY OTHERS; LINES 6-11 INCLUDES (1) 33 3/8"OD x 28" ID x 4" THK. SA-266-4N RING												
	LINES 14-18 INCLUDES (1) 33 3/8" O.D. X 28" I.D. X 3 15/16" THK. RING & (1) 33 3/8" OD x 28" ID x 4" THK. RING, BOTH SA-266-4N											
	(1) Annular distributor contains (2) 35 3/4"OD x 28 7/8"D x 3/4" thk. SA-516-70 Closure Rings & (2) 3 1/4" x 3/8" thk. x 49 7/8" SA-516-70 Divider Plates											
Г					CERTII	EICATE O	F SHOP	COMPLIA	NCE			
	We certify that the sta	tements	in this report	are correc	t and that	all details	of design	i, material	I, construction, an	d workmansh	ip of this ves	sel conform to the
ı		y that the statements in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the DILER AND PRESSURE VESSEL CODE, Section VIII, Division 1.										
		Certificate Authorization No. 12370 Expires SEPTEMBER 27 ,20 13  the 10-6-11 Name ENERGY EXCHANGER COMPANY Signed Signed										
١	Date 10-6-	// Nar	me	ENERGY	/ EXCHAN (Manufac	IGER COM	MPANY		Signed	Cegui	tepresentative)	
-	CERTIFICATE OF SHOP INSPECTION											
	I, the undersigned, ho	lding a va	alid commisio	n issued b	y the Natio	nal Board	of Boiler	and Press	ure Vessel Inspec	ctors and/or th	e State or Pr	ovince
	of OKLAHOMA				ACON AM			COMPA	NY of		LYNN, MA	
	have inspected the pr	essure v	essel describe	ed in this M	lanufacture	er's Data F	Report on	_	//	0.6.2		, and
	state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or											
	implied concerning th	e pressi	re vessel des	scribed in t	his Manuf	acturer's D	ata Repo	rt. Furthe	rmore, neither the	Inspector no	r his employe	er shall be liable in
	any manner for any p	ersonal ir	jury or prope	rty damage	or a loss	of any kine	d arising f	rom or co	nnected with this i	nspection.		
	Date 10 16 1 Signed Commissions N.B.# 12064 A OKLA.# 7											
-	(Authorized Inspector) (Natl Board Incl. endorsements, State, Province, and No.)  CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE											
	requirements of ASM	re certify that the statements on this report are correct and that field assembly construction of all parts of this vessel conforms with the equirements of ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. U Certificate of Authorization No.										
	U Certificate of Authorization NoExpires,20											
	Data	Na	me						Signed			
	Date				(Assen					(F	Representative)	
CERTIFICATE OF FIELD ASSEMBLY INSPECTION										rovinos		
	I, the undersigned, holding a valid commision issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province										Ovince	
	of	and em	ployed by	ave compa	red the sta	tements i	n this Mar	ufacturer	's Data Report wit	h the describe	ed pressure v	essel
1	of		, 11	aro compe								0

, not included in the certificate of shop inspection, have been and state that parts referred to as data items inspected by me and to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. The described vessel was inspected and By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Signed

(Authorized Inspector)

(Nat'l Board incl. endorsements, State, Province, and No.)