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

1. 1	Manufactured an	d certif	ied by _		ENE	RGY EXC	HANGE	R CO	MPANY, 1844 (Name and add	NORT	H G	ARNET	T ROAD, TUL	SA, OK	74116			
2. 1	2. Manufactured for SOUTHERN COMPANY SERVICES, INC. 42 INVERNESS CENTER PARKWAY BIRMINGHAM, AL 35242 (Name and address of Purchaser)																	
3. l	_ocation of instal	lation					М		SIPPI POWER	R CO., I	DEK	ALB M	3 .					
3. Location of installation MISSISSIPPI POWER CO., DEKALB MS. (Name and address) 4. Type: HORIZ. HEAT EXCHANGER X-7938 A (Horiz., vert., or sphere) (Tank, separator, jkt. vessel, heat exh., etc.) (Mfg's serial No.)																		
4.	туре	(He	oriz., vert.,	or sphere)	ere) (Tank, s				eparator, jkt. vessel, heat exh., etc.)					(Mfg's se	rial No.)			
					X-7938-A REV. 3 (Drawing No.)				_	6 (Nat'l	057 Bd. N	0.)	2012 o.) (Year built)					
5. ASME Code, Section VIII, Div. 1					0007 FDITION 100 ADD				(Code Case No.)									
				-	[Edition and Ad	ddenda (date)]		(Co	de Case	No.)	ro or o	hambar of mul	Special Se	ervice per UG-120	o(a)]		
Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, shell of heat exchangers, or chamber of multichamber vessels. 6. Shell (a) No. of course(s): 2 (b) Overall length (ft & in.): 10'-5 1/8"																		
Course(s)					Material Thickness								m. Joint (Cat. A,	B & C)	Heat Tro	eatment		
No.	, 				Spec./Grade or Type		 		Full, Spot, No			Type Full, Spot, None				Time		
1	26" I.D.	6'-0" SA-516-70		3/8"	8" 1/8"		SPOT		0.85				5					
1	26" I.D.	26" I.D. 4'-5 1/8"		S	SA-516-70		1/8"	1	1 SPOT		0.85		SPOT	0.85				
7. Heads: (a) SA-516-70 (b) (Mat'l Spec. No., Grade or Type) (H.T Time & Temp.) (Mat'l Spec. No., Grade or Type) (H.T Time & Temp.)																		
		T	T				1			r	-) (H. I I				
	Location (Top, Bottom, Ends)	Thic	kness Corr.	Radius Crown Knuckle		Elliptical Ratio	Coni Apex A		Hemispherical Radius	Flat Diame		Conv	e to Pressure	Type	Full, Spot, No			
(a)	END	5/16"		Clowii	Kildckie	2:1	1 4 4 4 4	-				00114	X	S	NONE	0.85		
(b)															•			
If ren	novable bolts us	ed (de	scribe o	ther faster	nina)						N	A						
	(Mat'l Spec. No., Grade, size, No.)																	
8. Type of jacket NA Jacket closure NA (Describe as ogee & weld, bar, etc.)																		
I	If bar, give dimensions NA If bolted, describe or sketch.																	
9.	MAWP 242	<u>al\</u>		- p:	si at max. te	emp. 1	45 email		°F N	Min. des	sign	metal to	emp10	°F	at242	psi.		
9. MAWP 242 psi at max. temp. 145 °F Min. design metal temp. 10 °F at 242 psi. (internal) (external) 10. Impact test NO, EXEMPT PER UG-20(f) at test temperature of NA °F.																		
[Indicate yes or no and the component(s) impact tested] 11. Hydro., pneu., or comb. Test press. 315 P.S.I.G. Proof test NA																		
						<u>r</u>	5.1.G.		Floor lest				INA					
Items 12 and 13 to be completed for tube sections. 12. Tubesheet: SA-516-70N 26 1/4" 3 1/4" 1/4' Welded										d								
12. Tubesheet: SA-516-70N [Stationary (Mat'l Spec. No.)]					[Dia., In. (subject to press.)]				(Nom. thk., in.)				orr. Allow., in.)		[Attachment (welded or bolted)]			
NA NA NA								NA (Nom. thk., in.)			. <u> </u>	NA (Corr. Allow., in.)			NA (Attachment)			
[Floating (Mat'l Spec. No.)] (Dia., 13. Tubes: SA-179 3/4						3/4"		0.083" THK (MIN)				267			"U"			
	(Mat'l Spec. No., Grade or Type) (O.D., in.) (Nom. thk., in. or gauge) (Number) [Type (Straight or U)]																	
Items 14-18 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers. 14. Shell (a) No. of course(s): 1 (b) Overall length (ft & in.): 2`-1 7/16"																		
												atmont						
No.	Course(s) Diameter, in. Length (ft & in.)			Material Spec /Grade or Type		Thickness Nom. Corr.		Long. Joint (C				Circum. Joint (Cat. A, B, Type Full, Spot, None		Temp.	Time			
1	26" I.D.		7/16"		A-516-70	5/8"	1/8"	1	SPOT).85	1 (1)	SPOT	e Eff.	<u> </u>			
		- -		—			1											
	•																	
15.	Heads: (a)			SA	\-516-70N				(b)				NA					
(Mat'l Spec. No.,						Time & Te			.1		Υ		fat'l Spec. No., Grade or Type)		Category A			
	200011011 (10)		Thickness Radius Ain. Corr. Crown Knuckle		Elliptical Ratio	Elliptical Conic		Hemispherical Radius	Flat Diameter		Sid	e to Pressure	Concave Type					
(a)	END	Min. 3 3/8'	3/16"	Ciowii	Niuckie		1	3.5		27 1	_	30114	ON CONTRACT	1,700	Full, Spot, No			
(b)							1	\dashv										
If removable, bolts used (describe other fastening) (a) SA-193B7 , 1 1/8" DIA, 28																		
If removable, bolts used (describe other fastening) (a) SA-193B7 , 1 1/8" DIA, 28 (Mat'l Spec. No., Grade, size, No.)																		

16. MAWP 610 (external)						FORM 265	U-1 (Ba	ick) 	°F Min. design ı	610 ps	psi.			
17	(internal)	(ext	emal)	NO. F	XEMPT P	(internal) FR UG-20	•	xternal)	at test temperature of NA					
				ndicate yes or	no and the co	mponent(s) ir	npact tested]			•			F.	
	Hydro., pneu., or co			795		P.S.I.G.	Pro	oof test _		Г	NA		_	
19.	Nozzles, inspection	, and sale						т					_	
	Purpose	l	Diameter	Flange		erial	Nozzle T		Reinforcement		ttached	Location		
<u> </u>	et, Outlet, Drain, etc.)	No.	or Size	Type	Nozzie	Flange	Nom.	Corr.	Material	Nozzle	Flange	(Insp. Open.)		
	INLET/OUTLET	1/1	6"-150#		SA-106B		0.4320"	1/8"	WELD	WELDED	WELDED	SHELL	_	
	INLET	1	10"-300#		SA-106B		0.5940"	1/8" 1/8"	SA-516-70	WELDED	WELDED	CHANNEL	_	
	OUTLET	1	10"-300#	RF-VVIN	SA-106B	SA-105	0.5940"	1/6	SA-516-70	WELDED	WELDED	CHANNEL	_	
		 											-	
		+		<u> </u>						-			-	
		+											-	
	<u> </u>	 		l					· · · · · · · · · · · · · · · · · · ·				_	
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~~	O Child	NO I		Laga	!	Othoro		(2) Soddlo	s Attached		WELDED TO S	PUELL	_	
20.	Supports: Skirt	NO L	ugs (No.)	Legs	(No.)	_Others		(2)Saddle (Describe)	SAttached		(Where and he		_	
	Manufacturer's Part (List the name of pa								ors have been ful	moned for the	Tollowing Rem	s of the report.	_	
22.	Remarks: SERVIC	E: RECY	CLE GAS CO	MPRESSO	OR KICKB	ACK COO	LER ITEM	I NO.: HX	1032					
_	P.O. NO.:17497-00	01, SIZE:	26-120, TYPE	:NFU, TU	BES DESI	GNED W/	0" C.A., S	AFETY R	ELIEF DEVICES	BY OTHERS				
_	LINES 14-18 INCLU													
_	(1) Tubesheet to c	ylinder c	ircumferenti	al seams a	are type 7	joints wit	h efficien	cy of .85.						
AS	e certify that the sta	PRESSU	RE VESSEL (CODE, Sec	t and that		of design	, material,	construction, and	d workmanshi	p of this vesse	onform to the		
U	Certificate Authoriza	ation No.		12370		Expir	es	SEPTEMB	ER 27 ,20	13	1			
Da	ate 7-30-/2	Nar	me	ENERGY	/ EXCHAN	GER CON	MPANY	;	Signed Signed	-5U	J			
					(Manufac	turer)				(R	epresentative)		_	
	the undersigned, ho	oldina a va	alid commision	n issued hy		FICATE C				tors and/or the	e State or Prov	vince		
of					ACON AME				NY of		LYNN, MA		_	
	ive inspected the pr						•			2012		, and		
PF im	ate that, to the be RESSURE VESSEL uplied, concerning the manner for any pe	CODE, ne pressu	Section VIII, I re vessel des	Division 1. cribed in t	By signing his Manufa	this certi cturer's D	ficate neit ata Repor	her the Ir t. Further	spector nor his e more, neither the	employer mak Inspector nor	es any warran	ty, expressed or	•	
Da	ate 7.33.12	Sig	ned (boll	20			Comm			064 A OKLA.:		_	
					Authorized Insp		D ASSEM	IBL V COI	/IPLIANCE	I Board incl. endor	sements, State, Pro	vince, and No.)	_	
re	e certify that the sta quirements of ASMI Certificate of Autho	E BOILEF	R AND PRES	are correc	t and that f	ield assen E, Section	nbly const	ruction of	all parts of this ve		s with the			
Da	ate	Nar	ne						Signed				_	
					(Assem		D 4005	4DL 3/ 1510	DECTION	(R	epresentative)		_	
1. 1	the undersigned, ho	olding a va	alid commisio		RTIFICAT the Nation					tors and/or the	e State or Prov	vince		
of	-	_	ployed by											

, have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items , not included in the certificate of shop inspection, have been 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.)