S.H.E.	Order#	
	- 40	

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS

Item no.

98	3-519		As	Req	uired by	the Pro	visions	of the	ASN	ME Code	Rule	s, Se	tion \	/III, Div	. 1		E-1793	
1. Ma	nufactured and	certifie	ed by	Sou	ıthern H	eat Excha	anger C	orpora	tion 6	100 Old	Mont	gome	y High	way T	uscalo	osa, A	35405	
(Name and address of Manufacturer) 2. Manufactured for McNeil Specialty Products McIntosh, AL																		
∠. 1V18	indiactored IOI						(Name a	and add		Purchase	r)							
3. Lo	cation of installat	tion	Mcl	Neil :	Specialt	y Produc	ts McIn	tosh, A	AL	ree/							- <u> </u>	
	_ Llorisa	ntal				Heat excl		(Name &		:ss) :519	No	ne	SB-38	321-2	10	207	19	99
4. Ty	pe Horizo (Horiz,vert			(Tan		or,jkt. vesse		,etc.)		er. no.)	(CF			. No.)		Bd. No.	_	built)
5. AS	5. ASME Code, Section VIII, Div. 1 1995 A97 None																	
Edition and Addenda(date) Code Case No. Special service per UG-120(d) Items 6 - 11 incl. to be completed for single wall vessels, jackets of jacketed vessels, shell of heat exchangers, or chamber of multi-chamber vessels																		
				_		essels, jack	ets of jack	eted ves	sseis, S	nell of nea (b) Over				0er or mui 15'-0"	u-Giaiik	~: ₹C33(
6. St	nell (a) No. of	cours	e(s): _	2						(0) 0461	un rengt	(1. 0. 11	<i>"</i> –					
	(OD) Cou	urse(s	s)	Т	Ma	terial	Thick	ness		Long Join	t (Cat. A	i)	Circ	:um.Joint(Cat. A,B	,&C)	Heat 7	reat.
No.	Diameter, in.		oth (ft &	in)	Spec/Gra	de or Type	Nom.	Corr.	Туре	Full,Spo	t,None	Eff.	Туре	Full,Spc		Eff.	Temp.	Time
1	27.25"	10'-	-0"		SA-240-	316L	.250"	0	1	spot		85%	1	spot		-		
1	27.25"	2'-6	3.75"	I	11		"	0	1	 "		"	1					
		يَـــــــــــــــــــــــــــــــــــــ) (C="	4011 4		<u>L</u>	<u> </u>			A-240	3161				1	
7. H	eads: (a)	s				18" ecc. r ade or Type			me	(b)				ade or Ty	oe) H.T -	Time &	Temp	
	1 0004:00	-	(Mai			ade or Type	Elliptical	Coni		lemisph.	Flat		de to Pr		2,	Categ		
-	Location op,Bottom,Ends	\vdash	Min.	Corr.	Crown	Knuckle	Ratio	Apex A		Radius	Diamete				Туре	Full,Spc		Eff.
(a)	End		250"	0				30°						х				
(b)	End		187"	0			2:1							х			i	
<u></u>	<u> </u>																	
If re	movable, bolts u	sed (d	describe	othe	r fastening	1)	welded			/Mar*	I. Spec.	No G	ade siz	e no \				
		Al-	ne						.lar	mat) ket closur	•	14U., GI	auc, 312	G, 11U.J				
8. T	8. Type of jacket None Jacket closure (Describe as ogee & weld, bar, etc.)																	
if ba	ar, give dimensio	ns	None	е													e or ske	
	108 108		FV		psi at max		350		_ ° F.	Min. de	sign me	tal temp	·	20	° F. at	108/F	V ps	ı
	(interna		external	l)		(internal)	(extern	al)									
10.	Impact test	UF	1A-51				(ledies*	0 VCC C-	00.004	the comp	Onent/c)	imnaci	tested)					
	Mudeo menu -		ih toot -	rees	1	65 ps	indicati sig hydro		Proof		v110111(5)	mpaci	,c3(CU)					
	Hydro., pneu., o ns 12 and 13 to I																	
	Tubesheet:		\-240-				22.12	25"		1	.0625"	_	0			bolted	<u> </u>	
					pec. No.)	Dia.,	in. (subjec	ct to pres	ssure)	Nom	n. thk., in	ı. (Corr. Alle	ow., in.	Attachr	nent (we	ided or b	olted)
			-													•		
			ng (Mat		c. No.)		Dia.				. thk., in		Corr. Alk	ow., in.		Attach: U	ment	
13			9-316L			3/4"			18 BV		-		109 Imber	_	Tv		ight or U	<u> </u>
			No., G			O.D., in			-	or gauge	exchang		HIDEI		• •	pc (011 a	.g U. U	,
	ms 14 - 18 incl. to Shell (a) No. o				inner cha	inders or jac	weren AG2	iscis UI (, iai ii iei		erall leng		in):	1'-9"				
14	SHEII (8) NO. C	n coul	135(3).		•					(-) - **			-					
Г	(OD) Course(s)				N	Thic	ckness	Long Joint (C			at. A)		cum.Join	t(Cat. A,B,&C)		Heat	Treat.	
No	- T		ngth (ft	& in)	Spec/G	rade or Type	e Nom.	Corr.	Тур	e Full,Sp	ot,None	_	Туре	e Full,Sp	ot, None	Eff.	Temp.	Time
1	17.75"	_	-8"		SA-240	-316L	.250'	' 0	1	spo	ot	85%	<u> </u>	-		<u> </u>	┝╧	
									-			┼	 			┼		
			<u> </u>		<u> </u>			<u></u>		<u></u>		Ι 2Δ 2Δ	2161	_ (liner f	or (a))	<u> </u>	<u></u>	<u> </u>
15	Heads: (a)	SA-51			Danda T	-0\UT 7	Time 9 7	ome.	(·			rade or T		- Time !	Temp	
Γ	1					Grade or Typ Radius	Elliptica		emp nical	Hemisph.				ressure	T		gory A	
	Location Top.Bottom.I	Ende	Min.	kness			Ratio	1	Angle	Radius	Diame			Concave	Туре		ot,None	Eff.
1	i op.Bottom.t	L1103	1.31"	0		1	1	+ +			22.12							
-	b) End		250"	ō							19.12							
<u></u>	<u> </u>		L			**************************************												
16	removable bolts	used	(descri	be oth	er fasteni	ng)	SA-193	3 B7 (2	20) 3/4	4"-10.								

16. MAWP 105		FV xternal)	psi at m	ax. temp. 350 (internal		Min. desigr	n metal	temp. <u>20</u>	° F.	at <u>105/FV</u>	psi	
17. Impact test	, ,	A-51, UG	-20(f)	(Indic	ate yes or no and the	e compone	nt(s) im	pact tested)				
18. Hydro., pneu.,				160 psig hyd	•				(1)	W-16.1)		
19 Nozzles, inspe	ction, and							T =	,		T a service .	
Purpose (inlet,		Diameter	Flange	Mat	erial	Nozzi		Reinforcement		Attached	Location	
Outlet, Drain, etc.	No.	or size	Туре	Nozzle	Flange	Nom.	Corr.	Material	Nozzle		(Insp. Opn.)	
In	1	4"	150#	SA-312-316L	SA-182F316L	.237"	0	SA-240-316L	е	RFSO		
Out	1	2"	"	"	11	.218"	0	SA-240-316L	е	RFSO		
In	1	2"	"	11	"	.218"	0	SA-240-316L	е	RFSO		
level-temp	4-1	2"	"	11	"	.218"	0	Inherent	е	RFSO		
drain	1	2"	"	11	11	.218"	0	SA-240-316L	е	RFSO		
Out	1	4"	11	11	"	.237"	0	SA-240-316L	е	RFSO		
relief	1	3"	"	11	11	.216"	0	SA-240-316L	е	RFSO		
	ــــــــــــــــــــــــــــــــــــــ		L	Legs 2	Ot	hers		Attache	d she	II, welded		
20. Supports: Skirt NO Lugs Legs 2 Others Attached Shell, Welded (Yes or No) (No.) (No.) (Describe) (Where and How)												
(List the name	of part, it	em numbe	r, mfg's.	name and identifying	number)							
									··· · · ·			
					4 TE OF 0110D	001101	IANIC					
					ATE OF SHOP					4 4bi		
1				report are correct and		esign, mate	erial, co	nstruction, and work	mansnı	or this vesse		
conform to the	ASME C	Code for Pre	essure V	essels, Section VIII, D		_		1		/		
U Certificate	of Auth	orization	No	7037		Expires	11/	²⁹ /		<i>— [</i> ₁19 }	2 n	
									C		$I \sim V$	
Date 06	Date 06/30/99 Name Southern Heat Exchanger Corporation Signed											
<u> </u>					nufacturer)				(Repr	esentative)		
					CATE OF SHOP							
I the undersig	ned, hold	ting a valid	commiss	sion issued by The Na	itional Board of Boile	er and Pres	sure Ve	essel Inspectors and	the Sta	te or Province	1	
of GA and	l employ	ed by		Commercial Unio	on Insurance Co	mpany		of Bos	ton, M	a have	inspected	
the pressure v	essel de	scribed in th	nis Manu	facturer's Data Repor				state that, to the b				
the Manufactu	rer has c	onstructed	this pres	sure vessel in accord	ance with ASME Co	de,Section	VIII,Div	vision 1. By signing	this certi	ficate neither t	the	
Inspector nor	nis emplo	yer makes	any war	ranty, expressed or in	nplied, concerning th	e pressure	vessel	described in this M	anufactu	rer's Data Rep	oort.	
				employer shall be liab								
arising from or				_ ^	/ XCII							
anomy nome						/						
Date 06	/30/99	Sin	ned	MAN	148	Cor	nmissi	ons NB 11599	A GA	419		
Date OC	700/00		.,	(Authorized	Inspector)			it'l Board incl. endor	sement.	State, Province	e and No.)	
				CERTIFICATE C	The state of the s	MBLY C						
10/2 2246.450	t the etat	omonto on	thic ropo	rt are correct and that					onforms:	with the requi	rements	
				it are correct and that	the new assembly t	onstruction	i oi aii ş	Jan 13 Or 11 11 0 1 0 0 0 0 1 0				
of ASME Cod						Evnisos				.19		
U Certificate	of Auti	norization	No		W. C.	Expires			×	,'' _		
								~ .				
Date		Na	me					Signed				
					Assembler)				(Кері	esentative)		
				CERTIFICATE						_		
I the undersig	gned, hol	ding a valid	commis	sion issued by The N	ational Board of Boil	er and Pre	ssure V	essel Inspectors an	d the Sta	ate or Province	•	
	d employ								of _			
have compare	ed the sta	atements in	this Mar	nufacturer's Data Repo							ns	
1				not included in the	certificate of shop in	spection, h	ave be	en inspected by me	and to th	ne best of my		
knowledge ar	id belief.	the Manufa	cturer ha	 as constructed and as 							on 1.	
				ydrostatic test of	psi. By sign	ing this cer	tificate	neither the Inspecto	r nor his	employer mal	kes any	
warranty exp	ressed o	r implied, co	oncernin	g the pressure vessel								
				nner for any personal								
inspection	,		,	,,				-				
Date		Sic	ned				Com	missions				
			,	(Author	ized Inspector)	***************************************		at'l Board incl. endo	rsement,	State, Province	ce and No.)	