	F	PO#			I	FORM	I U-1 MANUF	ACTURE	R'S DAT	A RE	PORT	FOR PRESS	URE \	/ESSE	LS				
	Tag and	d/or Pro	oiect	/	As Req	uired b	y the Provision	s of the ASN	ME Boiler a	and P	ressure	Vessel Code Ri	ules, S	ection V	III, Division 1				
1. N				d by T	aylor	Forg	e Engineer	ed Systen	ns, Inc.,			rie Ave., Tuls			na, 74117, l	JSA			=
2. N	1anufacture	d for	KP EI	NGINE	ERIN	G, 55	55 OLD JA	CKSONVI	LLE HW			d address of Ma , Texas, 757 0							
3 1	ocation of i	netall	ation L	JNKNO	OWN				(N	ame a	and add	lress of Purchas	er)						
									UEATEV	, O.I.A	•	e and address)							_
4. T	ype (Ho	rizont	HORIZON al, vertica	IAL II, or spl	nere)	_		(Tank, sepa	rator, jkt. v			exch., etc.)		_	(Manu	1203-(facturer's)1A serial numb	er)	_
-			N/A (CRN)				1203-01A-A1 REV6					3036 (National Board number				2016 (Year built)			_
5.	ASME Cod		(-)	II, Div.	1			(Drawing nu 1 15/N/A	iiiibei)				N/A	ional bo	aru number)		N/A	rear built)	
					_	[Ed	dition and Adde	enda, if appli	icable (da	te)]		(Code Ca		ımber)	[Special Se	rvice per U	G-120(d)]	_
	Items 6-11	incl.	to be co	mplete	ed for	single	wall vessels	, jackets of	ijacketed	ves	sels, sl	hell of heat ex	chang	ers, or	chamber of i	multichan	nber vesse	els.	
6. S	hell: (a) Nu	ımbeı	r of cour	se(s)	2	<u> </u>		(b) Ove	rall length	ı			13' 2.	8125"			_		
	Со	urse(s	s)			Mate	erial	Thic	kness		Lo	ong. Joint (Cat. A	١)	Circu	m. Joint (Cat. A	, B, & C)	Heat 1	reatment	7
No.	Diameter	r	Lenç	gth	Spe	c./Grac	de or Type	Nom.	Corr		Туре	Full, Spot, None	Eff.	Type F	ull, Spot, None	Eff.	Temp.	Time]
1	31.0" ID		8'			SA51	-	.4375"	0.12		1	SPOT	.85	1	SPOT	.85	N/A	N/A	_
1	31.0" ID		5' 2.8′	125"		SA51	6-70	.4375"	0.12	5	1	SPOT	.85	1	SPOT	.85	N/A	N/A	╛
				1					Body Flan	ges o	n Shells	3				D. W.			\exists
No.	Туре		ID	OD		ange Thk	Min Hub Thk	Mate	erial	1	How tached	Location	Num	n & Size	Bolting		r (OD, ID,	Washer	1
1	RFWN		31.0"	37.06	_	5/16" 7	7/16"	SA105			LDED	END	32 - 1		Material SA193B7	N/A	hk)	Material N/A	-
7. H	leads: (a)					SA510						(b)			N/A				_
	_	(N	/laterial sp	oec. nur			r type) (H.T t	ime and tem	ıp.)				terial s	•	mber, grade o	type) (H.1	time and	I temp.)	
	Location (To Bottom, En		Min.	hicknes	S Corr.	+	Radiu Crown	s Knuckle	Elliptica Ratio	I Co	onical Ap Angle	ex Hemispheric Radius		Flat ameter	Side to Pressur Convex Concav		Category Full. Sp	/ A ot, None Eff	
(a)	END		.309		.125		N/A	N/A	2:1		N/A	N/A		N/A	ХХ	NA		ne NA	-
								E	Body Flang	ges or	n Heads	3							\exists
			-	ın		0.0	- T.	Min Hub		. ,					1	Bolting	(0.5)		4
No.	Location		Туре	ID		OD	Flange Thk	Thk	Mate	епаі		low Attached	Nui	m & Size	e Bolting Ma		her (OD,), thk)	asher Materia	al
(a)	N/A	N/A		N/A	N/	A	N/A	N/A	N/A		N/A	4			N/A	N/A	N/	Α	
8. Ty	pe of jacke	et					N/A				Jack	et closure				N/A			
If	bar, give di	mone	sions: if k	ooltod	docor	ibo or	skotch								Describe as oge	ee & weld,	bar, etc.)		
		IIICIIS	510115, 11 1	Joileu,	uesci	ibe oi	SKEICH					Min	N/A						_
9. MA	AWP	248 (Inter			-15 (Exter		at max. temp). <u>20</u>	0 °F		(Extern	<u> </u>	ı. aesi	gn met	al temp	-20 °F	at	248 psi	_
10. lr	npact test	(IIIICI	iiai)		(LXICI	,		`	NO		`	,				at test ten	nperature	of N/A	
11 H	vdro., pneu.,	or cor	mh test n	ressure	н		[Indicate yes o	or no and the Proof te		nt(s)	impact t	tested]		N	I/A				
	ems 12 and		'					1100110							iir C				_
	ubesheet	ıısı	io ne coi	(1) SA			รษแบบเอ.		33.0"			2-3/16"			.250		BOLT	ED	
			[Statio	nary (m			no.)]	[Diameter	(subject to	pres	ss.)]	(Nominal thickr	ness)	((Corr. allow.)	Attac		ded or bolted)
	_				N/A				N/A			N/A			N/A		N/A		
	_		[Float	ting (ma	terial s	spec. no	0.)]	(Diameter)			(Nominal thickr	ness)	((Corr. allow.)		(Attachr	ment)	_
13. T	ubes _		(Mataria		9-S318		tuno)		1" (O. D.)			0.083"	2000/		164		U Type (Strai	abt or LIVI	
			(Materia	a spec.	110., gr	aue or	type)		(U. D.)			(Nominal thickr	1622)		(Number)		Type (Strai	grit Or O)]	

FORM U1-	(Cont'd)
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NB Number 3036

7. 0	hell: (a) No			s) <u>1</u>			. ,	erall length		0' 12.500"							
		urse(s)	<u> </u>			erial		kness		Long. Joint (Cat.	_		m. Joint (Cat. A.			Treatmen	
No.	Diameter		Len			de or Type	Nom.	Corr.		Full, Spot, None		71	ull, Spot, None	Eff.	Temp.		
1	31.0" ID		0' 12	2.5"	SA51	16-70	.4375"	0.125'	' 1	SPOT	.85	1	SPOT	.85	1150 °	1 H	IR
								Body Flang	es on She	lls							
N. T			10	0.0	Flange	NA: 11 1 TI			How					Bolting Washer (OD, ID,			
No.	Туре		ID	OD	Thk	Min Hub Thk	Mate	eriai	Attached	Location	Nun	n & Size	Bolting Material	thl		Wash Mater	
1	RFWN		31.0"	37.0625"	3-5/16"	7/16"	SA105		WELDED	END	32 - 1	-1/18"	SA193-B7	N/A		N/A	
	RFWN		31.0"	37.0625"	3-3/16"	7/16"	SA105		WELDED	END	32 - 1	-1/18"	SA193-B7	N/A		N/A	
5. H	leads: (a)			FI A	HEAD	SA516-70N				(b)			N/A	•			
	` /_	(M	1aterial s			r type) (H.T		np.)		(M	aterial	spec. nu	mber, grade or	type) (H.T.	- time ar	nd temp.)	
	Location (T			Thickness		Radiu	IS	Elliptical	1	Apex Hemispheri			Side to Pressur		Catego	ry A	
	Bottom, En	ds)	Min.	Co	orr.	Crown	Knuckle	Ratio	Angle	Radius	D	iameter	Convex Concave	Туре	Full, S	pot, None	Eff
(a)	END		1.8576	5" 0.1	25"	N/A	N/A	N/A	N/A	N/A	3	7-1/16"		N/A		N/A	N/A
								Body Flange	es on Head	ds							
							Min Hub							Bolting			
				l ID	OD	Flange Thk	IVIIII I IUD	Mate	rial	How Attached	l			Washe	er (OD	۸/ ۸ ۸ -	
No.	Location	1	Гуре	םי ן		I lalige Ilik	Thk	Ividio			Nu	m & Size	Bolting Mat	terial	thk)	Vasher Ma	ateria
Ά	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N	/A	N/A		N/A	N/A	l	N/A	
/ A	N/A //AWP	N/A		N/A	N/A Osi a	N/A t max. temp.	N/A 150 (Interior	°F nal)	150 (Extern	°F Min.	N/A		N/A	N/A	_ at _	N/A 217 p	si
/ A	N/A	N/A		N/A	N/A Osi a	N/A t max. temp.	N/A 150 (Interior	°F nal)	150 (Extern	°F Min.	N/A		N/A	N/A 20 °F	_ at _	N/A 217 p:	si
1/ A 6. N 7. II	N/A //AWP	N/A 217 (Interr	psi	-15 μ (Extern	N/A Osi a	N/A t max. temp.	N/A 150 (Interior	°F nal)	150 (Extern	or F Min. act tested]	N/A		N/A	N/A 20 °F	_ at _	N/A 217 p	si
6. N 7. II	N/A MAWP mpact test Hydro., pne	217 (Interr	psi nal)	N/A -15 r (Extern	N/A Osi nal) [Incossure	N/A t max. temp.	N/A 150 (Interior	°F nal)	150 (Exteri	or F Min. act tested]	N/A		N/A empat	N/A 20 °F	_ at _	N/A 217 p	si
6. M 7. II 8. H 9. N	N/A MAWP mpact test Hydro., pne	N/A 217 (Interr	psi nal) or comb	-15 r (Extended)	N/A N/A	N/A t max. temp. dicate yes or Hydro ings:	N/A 150 (Interior	N/A °F nal) NO compone	150 (Exteri	°F Min. act tested]	N/A design	ı metal f	N/A empat	N/A 20 °F test tempe	_ at _	217 p	si
6. M 7. II 8. H 9. N	N/A MAWP mpact test Hydro., pne	N/A 217 (Interr	psi nal) or comb	N/A -15 r (Extern	N/A Osi nal) [Incossure	N/A t max. temp. dicate yes or Hydro ings:	N/A 150 (Interior of the content of	N/A °F nal) NO compone	150 (Exteri	or F Min. act tested]	N/A	ı metal f	N/A empat	N/A 20 °F test tempe	at _	N/A 217 p	si /A
16. N 17. li 18. H	N/A MAWP mpact test Hydro., pne Nozzles, ins se (Inlet, Outlet,	N/A 217 (Interr	psi nal) or comb	-15 p (Extended). test pressafety value diameter	N/A N/A	N/A t max. temp. dicate yes or Hydro ings:	N/A 150 (Interior of the content of	N/A °F nal) NO compone si	nt(s) impa	or. or F Min. act tested] e Thickness Corr.	N/A design	n metal f	N/A empat N/A Attachmen Nozzle	N/A 20 °F test tempe	at _	217 p. 217 p. Location	si /A
6. M 7. II 8. H 9. N	MAWP mpact test Hydro., pne Nozzles, ins se (Inlet, Outlet, etc.)	N/A 217 (Interr	psi nal) or comb on, and	-15 p (Extent	N/A N/A	N/A N/A t max. temp. dicate yes or Hydro ings: Noz.	N/A 150 (Interior of the content of	N/A *F nal) NO *Compone si Flange	nt(s) impa Proof test Nozzl Nom.	or. e Thickness Corr. 0.125"	N/A design	n metal f	N/A at N/A Attachmen Nozzle UW16.1C	N/A 20 °F test tempe t Details Flange	at _	217 p. 217 p. Location	si /A
6. M 7. II 8. H 9. N	MAWP mpact test Hydro., pne Nozzles, ins e (Inlet, Outlet, etc.) SH INLET	N/A 217 (Interr	psi nal) or comb on, and No.	-15 processafety va Diameter or Size 6" 6"	Individual of the state of the	N/A N/A t max. temp. dicate yes or Hydro ings: Noz. N SA10 N SA10	N/A 150 (Interior of the content of	N/A °F nal) NO compone si Flange SA105	nt(s) impa Proof test Nozzl Nom.	" 0.125"	N/A design Reinforc Mate	ement rial RAL RAL	N/A at N/A Attachmen Nozzle UW16.1C UW16.1C	N/A 20 °F test tempe t Details Flange WELDED	at _	217 p. 217 p. Location	si /A
6. M 7. III 8. H 9. N	N/A MAWP mpact test Hydro., pne Nozzles, ins se (Inlet, Outlet, etc.) SH INLET SH OUTLET CH INLET CH OUTLET	N/A 217 J (Interr	psi nal) or comb on, and No. 1 1 1 1	-15 processafety va Diameter or Size 6" 6" 6"	Incomplete (Incomplete (Incomp	N/A N/A N/A t max. temp. dicate yes or Hydro ings: Noz Noz No SA10 N SA10 N SA10 N SA10 N SA10 N SA10	150 (Interior and the	N/A Property of the second of	Nozzl Nom. Nozzl Nom. 0.432 0.432 0.432	" 0.125" " 0.125" " 0.125" " 0.125" "	Reinforc Mate INTEG INTEG INTEG	ement rial RAL RAL RAL RAL	N/A at N/A Attachmen Nozzle UW16.1C UW16.1C UW16.1C UW16.1C	N/A 20 °F test tempe t Details Flange WELDED WELDED WELDED WELDED	at _	217 p. 217 p. Location	si /A
6. M 7. II 8. H 9. N urpos	M/A MAWP mpact test Hydro., pne Nozzles, ins ee (inlet, Outlet, etc.) SH INLET SH OUTLET CH INLET CH OUTLET H AUXILIAR	217 Control of the	psi nal) or comb on, and No. 1 1 1 1 1	n/A -15 p (External content of the second o	Incomplete (Incomplete (Incomp	N/A N/A N/A t max. temp. dicate yes or Hydro ings: Noz N SA10	N/A	Flange SA105 SA105 SA105 SA105	Nozzi Nom. 0.432 0.432 0.432 0.250	e Thickness Corr. " 0.125" " 0.125" " 0.125" " 0.125" " 0.125" " 0.125"	Reinforc Mate INTEG INTEG INTEG INTEG	ement rial RAL RAL RAL RAL RAL	N/A at N/A Attachmen Nozzle UW16.1C UW16.1C UW16.1C UW16.1C UW16.1C	N/A 20 °F test temper t Details Flange WELDED WELDED WELDED WELDED WELDED WELDED	at _	217 p. 217 p. Location	si /A
6. M 7. II 8. H 9. N urpos	M/A MAWP mpact test Hydro., pne Nozzles, ins se (Inlet, Outlet, etc.) SH INLET SH OUTLET CH OUTLET H AUXILIAR H AUXILIAR	N/A 217 J (Interr	psi	Diameter or Size 6" 6" 6" 2"	[Incomplete Section Se	t max. temp. dicate yes or Hydro ings: Noz N SA10	N/A	Flange SA105 SA105 SA105 SA105 SA105	Nozzl Nom. 0.432 0.432 0.432 0.250 0.218	e Thickness Corr. " 0.125" " 0.125" " 0.125" " 0.125" " 0.125" " 0.125" " 0.125"	Reinforc Mate INTEG INTEG INTEG INTEG INTEG	ement rial RAL RAL RAL RAL RAL RAL	N/A empat N/A Attachmen Nozzle UW16.1C UW16.1C UW16.1C UW16.1C UW16.1C UW16.1C UW16.1C	N/A 20 °F test tempe t Details Flange WELDED WELDED WELDED WELDED WELDED WELDED WELDED WELDED	at _	217 p. 217 p. Location	si /A
6. M 7. III 8. H 9. N urpos	M/A MAWP mpact test Hydro., pne Nozzles, ins ee (inlet, Outlet, etc.) SH INLET SH OUTLET CH INLET CH OUTLET H AUXILIAR	N/A 217 J (Interr	psi nal) or comb on, and No. 1 1 1 1 1	n/A -15 p (External content of the second o	Incomplete (Incomplete (Incomp	M/A N/A N/A t max. temp. dicate yes or Hydro ings: Noz. N SA10 N SA10	N/A 150 (Interior 150	Flange SA105 SA105 SA105 SA105	Nozzi Nom. 0.432 0.432 0.432 0.250	" 0.125" " 0	Reinforc Mate INTEG INTEG INTEG INTEG	ement rial RAL RAL RAL RAL RAL RAL RAL	N/A at N/A Attachmen Nozzle UW16.1C UW16.1C UW16.1C UW16.1C UW16.1C UW16.1C UW16.1C	N/A 20 °F test temper t Details Flange WELDED WELDED WELDED WELDED WELDED WELDED	at _	217 p. 217 p. Location	si /A

(Where and how) (Number) (Number) (Describe) (Yes or no)

N/A

22. Remarks

Length of tubes: 13' 0"

IMPACTS EXEMPT PER UG-20 (f) AND UCS-66

over pressure protection per UG-125 (a) (2)

^{21.} Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report (list the name of part, item number, Manufacturer's name, and identifying number):

We cer	tify that the stater BOILER AND PR	nents in this report ESSURE VESSEL	CERTIFICATE OF SHOP are correct and that all details of design, CODE, Section VIII, Division 1. U Certifi	material, construction, and	d workmanship ber 47294	o of this vessel conform to the Expires March 12, 2017
Date	07/07/2016	Name	Taylor Forge Engineered Syster	ns, Inc.	Signed	Hull -
			(Manufacturer)			(Representative)
			CERTIFICATE OF SHOP	INSPECTION		
I, the u	ndersigned, hold	ding a valid comm	ission issued by the National Board of	Boiler and Pressure Ves	sel Inspectors	and employed by
			and Insurance Company of Connec			
			ed in this Manufacturer's Data Report on	June 2, 2016	, and state th	,
VESSE concern	L CODE, Section ing the pressure	VIII, Division 1. B vessel described i	Manufacturer has constructed this press y signing this certificate neither the Inspe n this Manufacturer's Data Report. Furth damage or a loss of any kind arising from	ector nor his/her employer of termore, neither the Inspec	makes any war ctor nor his/her	rranty, expressed or implied,
Dat	te 07/07/201	e Signed	Parald 1 Hunter	Commissions:	4444	10AD 0V742
Dai	07/07/201	o oignou <u>z</u>	(Authorized Inspector)	4]		BAB, OK713 I (incl. endorsements)]
			eport are correct and that the field assem L CODE, Section VIII, Division 1. U Certi			Expires
			(Assembler)			(Representative)
			CERTIFICATE OF FIELD ASSE	MBLY INSPECTION		
I, the un	dersigned, holdi	ng a valid commis	ssion issued by The National Board of	Boiler and Pressure Vess	sel Inspectors	and employed by
belief, th Section the Insper Furtherm	e Manufacturer h VIII, Division 1. T ector nor his/her e	, not in as constructed and he described vess employer makes ar nspector nor his/he	facturer's Data Report with the described cluded in the certificate of shop inspectic assembled this pressure vessel in accord was inspected and subjected to a hydrogy warranty, expressed or implied, conceing the management of t	on, have been inspected by rdance with the ASME BOI costatic test of rning the pressure vessel of the press	/ me and to the ILER AND PRE By described in this	e best of my knowledge and ESSURE VESSEL CODE, signing this certificate neither s Manufacturer's Data Report.
Dat	e	Signed		Commission		
			(Authorized Inspector)		National Board	(incl. endorsements)]

2554005 exe: v6.4.28