

Tel: +1.724.658.3711 Free: 1.800.245.0354 flowlinefittings.com

IE19 A/RR

12/12/2023

U.S. Nuclear Regulatory Commission Document Control Desk Washington, D.C. 20555-0001 Phone: (301) 816-5100

Fax: (301) 816-5151 E-Mail: EIE@nrc.gov

SUBJECT: Interim Report Notification Pursuant To 10 CFR Part 21.21, Regarding

Supply Of 1" Sch. 80 (0.179" Wall) SB466 UNS C71500 Buttweld Long Radius 90 Degree Elbow; Manufacturer: Flowline; Heat No: 27668; 27 pieces – Heat Code: 127514, Fitting IDs: 16836-1-1 through 27; 1 piece -

Heat Code: 127976, Fitting ID: 16836-1-28.

This letter provides an interim report in accordance with §21.21 concerning the supply of 1" Sch. 80 (0.179" Wall) SB466 UNS C71500 Buttweld Long Radius 90 Degree Elbow to the Duke Energy Brunswick Nuclear Plant. Flowline Division, as Ezeflow's QMO, was contracted to supply the fittings. Flowline Division manufactured these fittings at our New Castle, PA facility. Please see Attachment 1, "Interim Report Notification Information per §21.21", for additional details and clarification.

Nine pieces of the 28 supplied have been found to be nonconforming to the wall thickness requirements of ASME B16.9. It has been reported to us by Tioga that three pieces of the nine nonconforming pieces have been installed. The remaining six pieces have been identified and are being returned to Mackson by Duke and ultimately to Flowline at the time of this report's issuance.

If you have any questions, please feel free to contact me at (412) 925-4946 or our Engineering Manager, Brad Seidel, at (724) 761-5850.

Regards,

∯òhn Gloninger

Flowline Inc.



Tel: +1.724.658.3711 Free: 1.800.245.0354 flowlinefittings.com

Enclosures:

- 1) Attachment 1, Interim Report Notification Information per §21.21
- 2) Flowline Final Inspection Dimensional Report for Shop Orders 127514 and TANUC127976

Cc:

Bernard Stabile, Ezeflow Dom Baggetta, Flowline Brad Seidel, Flowline Marty Capoferri, Flowline



Tel: +1.724.658.3711 Free: 1.800.245.0354 flowlinefittings.com

Attachment 1

Interim Report Notification Information per §21.21

I. Name and address of the individual or individuals informing the Commission:

John Gloninger President Flowline Inc. 1400 New Butler Road New Castle, PA 16101

II. Identification of the facility, the activity, or the basic component supplied which fails to comply or contains a defect.

28 pieces of 1" Sch. 80 (0.179" Wall) SB466 UNS C71500 Buttweld Long Radius 90 Degree Elbow; Manufacturer: Flowline; Heat No: 27668, Fitting IDs: 16836-1-1 through 28 were shipped direct from Flowline to the Brunswick Nuclear Plant on Ezeflow PO 82870, Line 1 and Tioga PO 03160591, Line 1 (Tioga Sales Orders Number: 372275 Position 10). Fitting IDs 16836-1 through 27 were supplied on July 21, 2023, and Fitting ID 16836-1-28 was supplied on November 8, 2023. The following is a clarification of the heat code identification associated with the first 27 pieces supplied on July 21, 2023 and the last piece which was supplied on November 8, 2023. The same starting pipe heat number 27668 was used for the manufacture of all 28 pieces. The heat code associated with the heat treatment of the 27 pieces supplied on July 21, 2023 is Heat Code 127514. The heat code associated with the heat treatment of the 1 piece supplied on November 8, 2023 is Heat Code 127976. The heat code is only associated with the heat treatment process. Of the 28 pieces supplied, based upon final dimensional inspection reports provided by Flowline to Tioga on November 21, 2023 and November 28, 2023, the



Tel: +1.724.658.3711 Free: 1.800.245.0354 flowlinefittings.com

following Fitting IDs do not meet the wall thickness requirements of Duke Energy Brunswick PO 03160591, Line 1 and ASME B16.9: 16836-1-1; 16836-1-3; 16836-1-6; 16836-1-7; 16836-1-11; 16836-1-14; 16836-1-15; 16836-1-20; and 16836-1-21.

III. Identification of the firm constructing the facility or supplying the basic component which fails to comply or contains a defect.

Mackson Nuclear is an ASME QSC holder and supplied these fittings to Duke Energy Brunswick for PO# 03160591, Line 1. Mackson ordered these fittings from Tioga Pipe, who owns Mackson, is an ASME QSC holder and is audited and approved by Mackson. Tioga ordered the fittings from Ezeflow, an ASME N-Stamp holder and is audited and approved by Tioga. Ezeflow had their Flowline division manufacture the fittings and Ezeflow generated and supplied the certification documentation package. Flowline has been audited and approved by Ezeflow as a qualified material organization to Ezeflow.

IV. Nature of the defect or failure to comply and the safety hazard which is created or could be created by such defect or failure to comply.

On November 15, 2023, Flowline was contacted by Ezeflow regarding the wall thickness of one piece of SB466 UNS C71500 1" Sch. 80 (0.179" Wall) Buttweld Long Radius 90 Degree Elbow, Heat# 27668 Heat Code 127976 Fitting ID# 16836-1-28 and supplied to Ezeflow as ASME Section II and Section III Subsection ND Class 3, 1986 Edition No Addenda material for Ezeflow PO# 82870. Line 1. Tigga went back to Ezeflow to request this information, and Ezeflow went back to their supplier of the material, Flowline, to request the final wall thickness measurements of this fitting. During this process, the wall thickness measurements for the previous 27 pieces of the same material with Fitting ID#s 16836-1-1 through -27 which were supplied to Ezeflow for PO# 82870, Line 1 on July 21, 2023 were obtained from Flowline. Fitting ID# 16836-1-28 met the Brunswick Specification BX-M-046 Revision 12 wall thickness requirement detailed in Section 4.2.5 of the specification. However, upon review of the Final Inspection Dimensional Sheet supplied by Ezeflow for Fitting ID#s 16836-1-1 through -27, it was determined by Mackson that the incorrect wall thickness of 0.120" was referenced as the minimum wall thickness acceptance criteria on the Final Inspection Dimensional Report. Based on BX-M-046 Revision 12 Section 4.2.5 and ANSI/ASME B16.9 requirements, the minimum wall thickness acceptance criteria should have been 0.1575" and not 0.120". Flowline then reviewed all the wall thickness



Tel: +1.724.658.3711 Free: 1.800.245.0354 flowlinefittings.com

measurements and determined that the following Fitting ID#s do not meet the wall thickness requirement based on what is recorded on the Final Inspection Dimensional Report (see attached copy of the report): Fitting ID#s 16836-1-1; 16836-1-3; 16836-1-6; 16836-1-7; 16836-1-11; 16836-1-14; 16836-1-15; 16836-1-20; and 16836-1-21.

- V. The date on which the information of such defect or failure to comply was obtained.
 - On November 15, 2023, Flowline was contacted by Ezeflow QC regarding the wall thickness of one piece of SB466 UNS C71500 1" Sch. 80 (0.180" Wall) Buttweld Long Radius 90 Degree Elbow, Heat# 27668 Heat Code 127976 Fitting ID# 16836-1-28 and supplied to Ezeflow as ASME Section II & Section III Subsection ND Class 3, 1986 Edition No Addenda material for Ezeflow PO# 82870, Line 1.
 - On November 17, 2023, Flowline reviewed the dimensional reports for fitting ID#s 16836-1-1 through -27. It was then determined that nine of the 27 fittings did not minimum wall thickness requirements of B16.9. At this point Ezeflow was notified of the nonconformance.
 - On November 21, 2023, Tioga and Mackson were provided the dimensional data from Flowline for fittings supplied to Duke on <u>July 21</u>, 2023
 - On November 28, 2023, Ezeflow issued a Return Material Authorization (RMA 212) and provided Tioga and Mackson the dimensional data from Flowline for the fitting supplied to Duke on November 8, 2023. It was verified that this fitting did comply with the thickness requirements of ASME B16.9.
 - <u>Tioga</u> notified Flowline on <u>December 7, 2023</u> that three of the nine BW elbows identified above have been installed in the plant. The Fitting ID#s of the BW elbows that have been installed are as follows: 16836-1-3, 16836-1-14, 16836-1-20.
- VI. In the case of a basic component which contains a defect or fails to comply, the number and location of these components in use at, supplied for, being supplied for, or may be supplied for, manufactured, or being manufactured for one or more facilities or activities subject to the regulations in this part.

9 pieces of 1" Sch. 80 (0.180" Wall) SB466 UNS C71500 Buttweld Long Radius 90 Degree Elbow; Manufacturer: Flowline; Heat No: 27668; Heat Code: 127514; Fitting ID#s 16836-1-1; 16836-1-3; 16836-1-6; 16836-1-7; 16836-1-



Tel: +1.724.658.3711 Free: 1.800.245.0354 flowlinefittings.com

11; 16836-1-14; 16836-1-15; 16836-1-20; and 16836-1-21 delivered to the Brunswick Nuclear Plant on Ezeflow PO 82870, Tioga PO 03160591, Line 1.

VII. The corrective action, which has been, is being, or will be taken; the name of the individual or organization responsible for the action; and the length of time that has been or will be taken to complete the action.

Flowline will conduct a thorough Corrective Action investigation upon receipt of the fittings in question. Brad Seidel, Flowline's Engineering Manager, has conducted an initial investigation into the reported minimum wall thickness parameter and concluded that the inspector incorrectly reported the limiting minimum wall thickness dimension as the result of a mathematical error.

Completed Actions:

- 1. Flowline issued Return Material Authorization (RMA 212) on November 28, 2023, to Tioga Pipe for the nine fittings that have been found to be nonconforming.
- 2. Flowline has implemented a second tier of inspection of 100% of all nuclear fittings, as well as a second verification of the limiting dimensions, by either the Chief Inspector or the Engineering Manager.
- 3. Flowline also added a third verification of the limiting dimensions by the Quality Documentation Specialist during documentation preparation and review.

Open Actions:

1. Flowline will, upon receipt of the returned fittings, issue a formal internal corrective action and conduct a root cause analysis.

Brad Seidel is responsible for investigating, completing and closing this corrective action.

VIII. Any advice related to the defect or failure to comply about the facility, activity, or basic component that has been, is being, or will be given to purchasers or licensees.

Any uninstalled material should be quarantined and tagged as nonconforming and returned to Flowline for evaluation and disposition.



Tel: +1.724.658.3711 Free: 1.800.245.0354 flowlinefittings.com

IX. In the case of an early site permit, the entities to whom an early site permit was transferred.

Not applicable.

(7)	F	OL	UL.	If	e
-----	---	----	-----	----	---

SHOP OR	DER:	127	514	ITEM:	1683	36-1	MA	r.type:		SB-4	66 UNS	C71500		DR	AWING:	N	/A
QTY:	27_	DESCI	RIPTION:	 ,	1" 9						STI) & YEAR :	B16.9-	1978	REV.#	<u> </u>	/A
	NOMINA	L WALL	0.	D.	I.	D.	C/E C.M.	E. OR:H	OVALITY	DEL	rer	A 11/	ar po	3.6000	Y A 7D	APPRO	VED BY
# 21	0.1	.80	1.3	320	0.9	60	2.2	03	OVALITY	BE/	/EL	ANC	GLES	MEP	LAI	& P	
PIECE #	Min.	Max.	Min.	Max:	Min.	Max.	Min.	Max.	Max.	Nom.	Tol. ±	INT. MAX	EXT MAX	Nom.	Tol. ±	(2	24)
	(inch)	(inch)	(inch)	(inch)	(inch)	(inch)	(inch)	(inch)	(inch)	0	0	۰	٥	(inch)	(inch)		
1"	0.120	0.340	1.29	1.38	0.900	1.020	2.14	2.26	0.090	37.5	2.5	18	30	0.06	0.03	INIT	TIALS
																D/	ATE
	······································		· · · · · · · · · · · · · · · · · · ·		·	ł.,	AC	TUAL D	IMENSIOI	NS					, ·		
1	0.150	0.210	1.	32 .	0.9	48	2.2	5	0.010	38.0	000 ACC		ACC	0.050	0.050	US7-K	>13
1	1 0.170 0.200 1.32		0.9	69	2.25		0.002	38.000		ACC	ACC	0.058	0.058		1		
				-													
2	0.172	0.182	1.	32	0.9	45	2.25		0.010	38.0	000	ACC.	ACC	0.055	0.055		`
2	0.182	0.210	1.	32	0.9	54	2.25		0.005	38.0	000	ACC	ACC	0.058	0.058		
																	<u> </u>
3	0,152	0.205		32	0.9		2.2		0.002	38.000		ACC	ACC	0.055	0.055	ļ	
3	0.185	0.195	1.3	32	0.9	53	2.2	.5	0.001	3,8,0	000	ACC	ACC	0.055	0.055		
		`		<u> </u>								•		<u>-</u>		ļ	
4	0.175	0.210		32	0.9		2.2		0.010	38.0		ACC	ACC	0.050	0.050	ļ	-
4	0.170	0.200	1,:	30	0.9	40	2.2	.5	0.015	38.0		ACC	ACC	0.052	0.052		
		- 100															
5	0.188	0.198		32	0.9		2.2		0.015	38.0		ACC	ACC	0.055	0.055		، ا
5	0.189	0.200	1	32	0.9	50	2.2	.5´	0.020	38.0	000	ACC	ACC	0.055	0.055		
L					<u> </u>		L					<u> </u>				<u> </u>	
,																	
ACCEDT	v Fi		INICTE	ጋ ፤ ነእ ፈሮአየም <i>ር</i>	०) संबद्धक	CHID 10	ם מסט מט	II 2011	D 2011 !	2 112 2	ここうつもも	2215 205	ንሮጋ ለ ጥላ፣	DE 6			
ACCEPT X INSTRUMENT(S) USED: SHIP-10, PRO-								10, 2011	-D, ZUII-1	J, 114-61	2.7,6611	4313,493-	200-A, IAI	- E-O			
reject)	ii)					<u></u>								····			

FRM-QUA-043 Rev. 0

(7)	FLO	ULI	10
-----	-----	-----	----

FRM-QUA-043 Rev. 0

FINAL INSPECTION DIMENSIONAL REPORT

SHOP OR	DER:	127	514	ITEM:	1683	36-1	, MĄ	r.type:	· · - · · - · · · · · · · · · · · · · ·	SB-4	66 UNS	C71500		DF	RAWING:		I/A
QTY:	27	DESC	RIPTION:		1" 9	0LR	····	SCH:	.180"	wall	STI	O & YEAR:	B16.9-	1978	REV.#	N	I/A
#		AL WALL	<u> </u>	D.	LI		C/E C.M.		OVALITY	BE	VEL	ANG	GLES	MEF	LAT	i	OVED BY
PIECE		.80	<u> </u>	20	0.9	,	2.2		36	37	m.1 .	73.77.14.77	TTVT NAV	37.	1		ATE
I.d.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Max.	Ņom.	Tol.±	INI. MAX	EXT MAX	Nom.	Tol. ±	- (24")
	(inch)	(inch)	(inch)	(inch)	(inch)	(inch).	(inch)	(inch)				 		(inch)	(inch)		
1"	0.120	0.340	1.29	1.38	0.900	1.020	2.14	-2.26	0.090	37.5	2.5	18	30	0.06	0.03	INI	rialș
								<u> </u>								D,	ATE
	,								IMENSIO	NS .		 					
6	0.145	0.218	1.3	32	0.9	60	-2.2	25	0.030	38,000		ACC	ACC	0.050	0.050	JS 7-	1023
6	0.180	0.180 0.201 1.32 0.945		45	2.25		.0.020	38.000		ACC	ACC	0.058	0.058		1		
		,									v				r		
7	0.150	0.220		32	0.9	0.955		2,25		38.	000	ACÇ	ACC	0.060	0.060		
7	0.172	0.200	1.	32	0.9	60	2.2	2.25		38.	000:	ACC	ACC	0.050	0.050		
8	0.170	0.220		32	0.9		2.2	25	0.005	38.	000	ACC	ACC	0.060	0.060		
8	0.163	0.220	1.	31	0.9	55	2.7	25	0.010	38.000		ACC	ACC	0.058	0.058		
						·											
9	0.165	0.210		32	0.9		2.2	25	0.030	38.	000	ACC	ACC	0.055	0.055		
9	0.160	0.170	1.3	32	0.9	50	2.2	25	0.020	38.	000	ACC	ACC	0.055	0.055		
10	0.165	0.215	1.3	32	0.9	50	2.7	25	0.002	38.	000	ACC	ACC	0.050	0.050		
10	0.173	0.198	1.	32	0.9	50	2.7	25	0.002	38.	000	ACC	ACC	0.050	0.050		
Ĺ												<u> </u>				<u> </u>	
ACCEPT REJECT			INSTF	RUMENT(S) USED:	SHIP-10), PRO-HC	OU, 2011	-D, 2011-	8, 112-2	25,2211	2315,295-	253-A, TAI	PE-6			
												· -					

Page: 1 of 1

(7)	FL	OU	IJŧ.	lſ	je
-----	----	----	------	----	----

SHOP OF	DER:	127	514	ITEM:	168	36-1	MA	T.TYPE:		SB-4	66 UNS	C71500	· 	DF	RÂWING:	N/	A
QTY:	27	DESCI	RIPTION:		1" 9	0LR		_			STI	O & YEAR:	B16.9-	1978	REV.#	N/	A
#		L WALL		.D. 320	0.9	D. 60	C/E.C.M.	.E. OR H	OVALITY	BE	VEĹ	AN	GLES	МЕР	PLAT	APPROV	
PIECE #	Min.	Max.	Min. (inch)	Max.	Min.	Max.	Min.	Max. (inch)	Max. (inch)	Nom.	Tol. ±	INT. MAX	EXT MAX	Nom.	Tol. ±	(Sc. 1)	
1"	0.120	0.340	1.29	1.38	0.900	1.020	2.14	2.26	0.090	37.5	2,5	18	30	0.06	0.03	IŇITI	ALS
													,			DA'	ΓE
1						<i>L</i>	A	CTUAL D	IMENSIO	NS .	<u> </u>	•					
11	11 0.155 0.203 1.32 0.943 2.25 0.035 38.000 ACC ACC										ACC	0,050	0.050	1.15-7-10-22			
11	0.175	75 0.198 1.31 0.950		50	2.25		0:010	38.000		ACC	ACC	0.055	0.055				
		0.178 0.200 1.31 0.950															
12	0.178	0.200		31			2.2		0.010 0.015	· · · · · · · · · · · · · · · · · · ·	000	ACC	ACC	0.052	0.052		
12	0.175	0.195	1.	32	0.9	41	2.2	2.25		38.	000	ACC	ACC	0.055	0.055		
13	0.175	0.210	1.	32	0.9	55	2.25		0.005	38	000	ACC	ACC	0.055	0.055		
13	0.165	0.200	 	30	0.9		2.2		0.025	38.000		ACC	ACC	0.055	0.055		
		, , , , , , , , , , , , , , , , , , ,															
14	0.148	0.210	1.	30	0.9	38	2.2	25	0.015	38.	000	ACC	ACG	0.050	0:050		
14	0.180	0.205	1.	31	0.9	55`	2.7	25	0.015	38.	000	ACC	ACC	0,055	0.055		·
															ļ [,]		
15	0.147	0.214		33	0.9		2.7		0.010		000	ACC	ACC	0.050	0.050		
15	0.185	0.190	1	32	0.9	35	2.2	25	0.013	38.	000	ACC	ACC	0.060	0.060		
ACCEPT REJECT	X C	- -	INSTI	RUMENT(S) USED:	SHIP-1	(0, PRO-HC	૦૫, 2011	-D, 2011-l	B, 112-2	25,2211	2315,295-	253-A, TAI	PE-6	l		

FRM-QUA-043 Rev. 0

Page: 1 of 1

(3)	FL	OL	ijį	Îſ	e

SHOP OR	DER:	127	514	ITEM:	168:	36-1	MA'	T.TYPE:		SB-4	66 UNS	C71500		DR	AWING:	N,	İΑ
QTY:	27	DESCI	RIPTION :		1" 9	OLR_	·	SCH;	.180"	wall	STI	& YEAR:	B16.9-	1978	REV.#	N,	/A
#	NOMINA	AL WALL		D.		D.	C/E C.M		OVALITY	BEV	——— ÆL	ANO	GLES	MEP	LAT		VED BY
E	0.1	180	1.3	320	0.9	60	2.2	03		, DD,				44444		& D	ATE
PIECE	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max,	Max.	Nom.	Tol. ±	INT. MAX	EXT MAX	Nom.	Tol. ±	, , -	4 ")
	(inch)	(inch)	(inch)	(inch)	(inch)	(inch)	(inch)	(inch)	(inch)	0	ę	0	0	(inch)	(inch)		
1" .	0.120	0.340	1.29	1.38	0.900	1.020	2.14	2.26	0.090	37.5	2.5	18	30	0.06	0.03	INIT	IALS
									,	`						DATE	
							A	CTUAL D	IMENSIO	4S							
16	0.192	0.205	1.	31	0.9	143.	2.2	25	0.010	38.0	000	ACC	ACC	0.050	0.050	JS 7-	10-23.
16	0.170	0.195	0.195 1.32 0.950		50	2:25		0.015	38.000		ACC	ACC	0.060	0.060			
			·														
17	0.185	0.198	1.	33	0.9	0.950		2.25		38.0	000	ACC	ACC	0.060	0.060		
17	0.170	0.210	1.	31	0.9	41	2.25		0.003	38.0	000	ACC	ACC	0.055	0. 055		
													-				
18	0.170	0.205	1.	32	0.9	55	2.2	25	0:005	38.0	000	ACC	ACC	0.055	0.055		<u> </u>
18	0.190	0.201	1.	32	0:9	52	2.5	25	0.008	38.0	8.000 ACC		ACC	0.055	0.055		
				······	[,		<u> </u>
19	0.160	0.210		32		38	2.2		0.005	38.0		ACC	ACC	0.050	0.050		<u> </u>
19	0.188	0.205	1.	30	0.9	55	2.2	25	0.010	38.0	000	ACC	ACC	0.060	0.060		ļ
					ļ												ļ
20	0.180	0.215		32		42	2.2		0.020	38.0		ACC	ACC	0.060	0.060		
20	0.142	0.215	1.	32	0.9	35	2.2	25	0.010	38.0	000	ACC	ACC	0.060	0.060		<u> </u>
	<u> </u>	<u> </u>	L		L		l					<u> </u>				<u> </u>	
4 CCCDT	اسا مه		INCTR	NIII AT NUT	w need	CUID 4	o ppo iie	NI 2011	D 2011	ን ተኛጥ ጥ	2E 2244	2215.205	ጋሮን <u>ለ</u> ጥልነ	DE 6			
			HCMF	KUMBN#(3) USED:	2414-11	U, PKU-HC	JU, ZUII	-D, ZUII-1	0, 114-4	45,4411	2313,295-	253-A, TA	- E-O	· · · · · · · · · · · · · · · · · · ·		
REJECT	ED [

0	Fl	OL		.ir	æ
---	----	----	--	-----	---

SHOP OR	DER:	127	514	ITEM:	1683	36-1	. MAT	T.TYPE:		SB-4	66 UNS	C71500	······································	ŗſĎŖ	AWING:	N	I/A
QTY:	27	DESCE	uption :	····	1" 9	0LR		SCH:	. <u>180</u> "	wall	STI	% YEAR:	B16.9-	1978	REV.#	<u></u>	ľ/A
41.	NOMINA	L WALL	0.	D.	I.I).	C/E C.M.	E. OR H	OVALITY	79.07	rei	ANG	TÈC	MED	T ATP		OVED BY
PIECE #	0.1	80	1.3	20	0.9	60	- 2.20	03 [,]	OAWRITT	,DE1	Lila	Mile	LLES	. IATEL	PÚT.	& <u>I</u>	DATE
PIE	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Max.	Nom.	Tol. ±	INT. MAX	EXT MAX	Nom.	Tol. ±	,,,	24")
	(inch)	(inch)	(inch)	(inch)	(inch)	(Inch)	(inch)	(inch)	(inch)	, 0	0	0	•	(inch)	(inch)		
1"	0.120	0.340	1.29	1.38	0.900	1.020	2.14	2.26	0.090	37.5	,2.5	18	30	0.06	0.03	INI	TIALS
																D.	ATE
							AC	TUAL D	IMENSIO	NS	······································	· · · · · · · · · · · · · · · · · · ·					
21	0.180	0.210	1.3	32	0.9	45	2.2	5	0.004	38.0	000	ACC	ACC	0.050	0.050	JS 7	10-23
21	0.155	55 0.220 1.30 0.955		55	2.25		0.020	38.000		ACC	ACC	0.045	0.045				
														,			
22	0.185	0.210	1.3	33	0.9	48	2.2	2.25		38.0	000	ACC	ACC	0.060	0.060		
22	0.190	0.205	1.3	32	0,9	45	2.25		0.010	38.0	000	ACC	AĆC	0,060	0.060		
											· · · · · · · · · · · · · · · · · · ·			<u> </u>			
23	0.180	0.208	1.3		0.9	55-	2.2	5	0.015	38.0	000	ACC ~	ACC,	0.055	0.055		<u>'</u>
23	0.170	0.210	1.3	32	0,9	60	2.2	5	0.010	0.010 38.0		3.000. ACC		0.060	0.060		
	<u> </u>																L
24	0.192	0.212	1.3		0.9		2.2		0.025	38.0		ACC	ACC	0.055	0.055		
24	0.165	0.215	1.3	32.	0.9	44	2.2	.5	0.005	38.0	000	ACC	ACC	0.058	0.058		ļ.,
			`												, ,		
25	0.170	0.180	1.3		0.9		2.2		0.004	38.0		ACC	ACC	0.055	0.055		
25	0.170 ⁻	0.205	1.3	32	0,9	48	. 2.2	.5	0.008	38.0	000	ACC -	ACC	0.060	0.060		
							l	<u> </u>				li					<u> </u>
ACCEPT	х 🗆		INSTE	UMENTO	S) USED:	SHIP-10	o. PRO-HO	U. 2011	-D. 2011-1	B. 1 12- 22	25.2211	2315,295-	253-A. TAF	PE-6.			~r
REJECT			4,021		-,		,	-,		· , ·	-,		T T				
	L-																

(3)	FLOWLING
-------------	----------

SHOP OR	DÈR:	127	514	ITEM:	168	36-1	MA	T.TYPE:		SB-4	66 UNS	C71500	· · · · · · · · · · · · · · · · · · ·	DF	RAWING:	<u>N</u>	/A
QTY:	27	DESCI	RIPTION:		1" 9						STI	& YEAR:	B16.9	1978 [.]	REV.#	N	/A
#	<u></u>	AL WALL		.D.		D.	C/E C.M.	E. OR H	OVALITY	BE	/EL	ANG	GLES	МЕР	LAT		VED BY
PIECE #	Min.	L80 Max.	Min.	Max.	0.9 Min.	Max.	Min.	03 Max.	Max.	Nom.	Tol. ±	INT, MAX	EXT MAX	Nom.	Tol. ±	60	ATE 24
۾ ا	(inch)	(inch)	(inch)	(inch)	(inch)	i	1	(inch)		. 0'	•	٥	0	(inch)	(inch)	1	
1"	0.120	0.340	1.29	1.38	0.900	1:020	2.14	2.26	0.090	37.5	2.5	18	30	0.06	0.03	INIT	TIALS .
																D/	ATE
					.				IMENSIO								
26	0.165	0.197		32	0.9	49	2.7	25	0.010	38.	000	ACC	ACC	0.055	0.055	US 7	10-13
26	0.163	0.206	1.	32	0.9	43	2.2	25	0.011	38.	000	ACC	ACC	0.048	0.048	<u> </u>	ļ
	0.180 0.202 1.34 0.955			2,25		0.020	38.000		1.00	122	0.050	0.050	<u> </u>				
27	 	0.202						2.25				ACC	ACC	0.050	0.050		
27	0.170	0.210	1.	35	0.9	765	72.4	<u> </u>	0.030	38.	000	ACG	ACC	ò.055	0.055	<u> </u>	
						<u> </u>											
	-				 	<u> </u>					*****						
																	
					<u> </u>											<u> </u>	
		<u>-</u>			<u> </u>							ļ			ļ	<u> </u>	
		ļ			-				· ·				, , , , , , , , , , , , , , , , , , ,			 	
					-											 	
L	L	1	<u> </u>		İ		L		L	<u> </u>	<u></u>	1	I	l	L	1	
ACCEPT	x □		INSTI	RUMENT(S) USED:	SHIP-1	0, PRO-H(OU, 2011	-D, 2011-	B, 112-2	25,2211	2315,295-	253-A, TA	PE-6			
REJECT	ED [·	- ·····		.,	

()	FLOWLI	ne
- Table 197	+	

SHOP ORDER:		TANUC	ANUC127976 ITEM			-1-28	MAT.TYPE: SB-466 UNS C71500					· · · · · · · · · · · · · · · · ·	DRAWING:		N/A		
QTY:	1	DESCF	UPTION:	ON:1		90LR SCH:		180W			STD & YEAI <u>B16.9-</u>		.1978 REV.#		N/A		
PIECE #				D.	I.D.		C/E C.M.E. OR H		OVALITY	BEVEL		ANGLES		MEPLAT		APPROVED BY	
	0.180		1.320													25 BASTE	
	Min.	Max.	Min.	·· Max.	Min.	Max.	Min.	Max.	Max.	Nom.		-	EXT MAX	Nom.	Tol. ±	23	/
	(inch)	(inch)	(inch)	(inch)	(inch)	(inch)	(inch)	(inch)	(inch)		٥	. 0		(inch)	(inch)		
1."	0.158	0.318	1.29	1.38	0.930	0.990	1.44	1.56	0.090	37.5	2.5	18	30	0,06	0.03	INITIALS 2	
	_									37.5	2.5	18	30	0.06	0.03	DATE NO	
ACTUAL DIMENSIONS																	
1	0.190	0.210	1.	31	0.950		1.50		0.010	37.	500	ACC	ACC	0.060	0.060		
1	0.195	0.205	1.30		0.945		1.50		0.020	37.500		ACC	ACC	0.060	0.060		
							-										
				<u> </u>													
				_										_			
<u></u>																	
				·													
	<u> </u>												ļ <u>.</u>				
							ļ		<u> </u>			·					
							ļ		<u> </u>								
ļ	<u> </u>	ļ	<u> </u>		<u> </u>												
	<u> </u>	<u> </u>							<u> </u>						<u> </u>	ļ <u></u>	
					<u> </u>												
	<u></u>	L	<u>L</u>		<u> </u>		<u></u>		<u> </u>	L			L	l			
ACCEPT	-X 🗀		INSTI	RUMENTI	S) USED:	221123	31 5,112- 2	25,1202	,2011-A. 2	2011-B							
REJECT					, -		<u></u>	-,	···			 ,					
	_							 •									