TASK GROUP INSTRUCTION
AIM REV 20.11.4.0 (OCTOBER 2020)

TGI NO.:	COMPONENT NAME:	TYPE:	PHASE:	REPEAT:	CHANGE:
	SA 88714D DFT	AY	A	0	2

SHIP/HULL NO.:	SHIP/HULL NAME:	SYSTEM:	PROJ/WO NO:	CASREP CAT:
LCC-19	USS BLUE RIDGE		19P	

CU PHASE TITLE:
*F/O - S/A 88714D ACCOMPLISH MODIFICATION OF DEAERATING FEED TANK LEVEL CONT SYS

PREPARING ACTIVITY:

	CODE	PHONE	DATE
PREPARED BY: KAZUKI UCHIMURA	233.	809-350-1432	09-APR-2025
APPROVED BY: MASAHIRO HOSONO	233	080-9350-1455	09-APR-2025
CONCURRED BY:	CODE	PHONE	DATE
CONCURRED BY:	CODE	PHONE	DATE
CONCURRED BY:	CODE	PHONE	DATE
CONCURRED BY:	CODE	PHONE	DATE

REASON FOR WORK/NEED FOR CHANGE:
Typo miss.

CHANGE INSTRUCTIONS:

CH1: revise QA Form 28. (04/16/2025)
CH2: revise paragraph 5.6 (07/11/2025)

SPECIAL REQUIREMENTS:

WORK CERTIFICATION SIGNATURES

COMPLETION OF WORK REVIEW:	BADGE NO.:	SHOP/CODE:	PHONE:	DATE:

ACCEPTANCE OF COMPLETED WORK

PHYSICAL INSPECTION REQUIRED: ☐YES ☒NO	PHYSICAL INSPECTION COMPLETED:	BADGE NO.:	SHOP/CODE:	PHONE:	DATE:

RECORDS REVIEW:	BADGE NO.:	SHOP/CODE:	PHONE:	DATE:

FOUO: Public availability to be determined under 5 USC 552

3819P43701A01

LIST OF EFFECTIVE PAGES									
SHT NO.	CHG NO.	SHT NO.	CHG NO.	SHT NO.	CHG NO.	SHT NO.	CHG NO.	SHT NO.	CHG NO.
1-5		QA28 (1)							
J1-2									
M1-9									
QA28 (1-3)									

1. **SCOPE/PURPOSE**

1.1 Title: S/A 88714D, Modification of Deaerating Feed Tank Level Control System; accomplish

1.2 Location of Work:

1.2.1 Fire Room (8-76-0-E)

1.2.2 Engine Room Enclosed Operating Station (6-86-0-E)

1.3 Identification:

1.3.1 Quantity (One EA), Deaerating Feed Tank Level (DFT) Control System, Power
Remarks: See 2.3 and 2.6 for details.

1.3.2 Quantity (One EA), DFT Level Control System, Alarm
Remarks: See 2.4 and 2.6 for details

1.3.3 Quantity (One Lot), DFT Level Control Transmitter Piping
Remarks: See 2.5 for detail.

1.3.4 Quantity (One Lot), Control Air Tubing for DFT Level Control System
Remarks: See 2.9 for detail.

1.3.5 Quantity (One Lot), Dirty Drain Piping
Remarks: See 2.10 for detail.

1.3.6 Quantity (2 EA), Control Air Supply Valves for Positioner
Mfr: Various.
Mfr Id: 803-4384536-15B1AF
Item No: V1 of 2.9
Size: 1 / 4 inch
Type: Union End Globe

1.3.7 Quantity (2 EA), Valve Positioner, Digital for Control Valves (Excess and Make Up Feed Control Valves)

Model: Flowserve 3800

1.4 Security Classification: None.

1.5 Initial Condition:

1.5.1 Potential Asbestos Hazard

1.5.2 Potential Lead Hazard

1.6 Contractor work start date: 7/21/2026

1.7 Contractor work completion date: 11/21/2027

2. REFERENCES:

REF. NO.	DOCUMENT /DRAWING NUMBER	DOCUMENT/DRAWING TITLE	REV	CHG NO.	COPY REQ'D (Y/N)	SOURCE DOC (Y/N)	PARA	SEC	PG	CH P
1	NSI FY-26	NAVSEA Standard Items	-	1	N					
2	LI FY-26	Local Standard Items	-	ORG	N					
3	DWG 302-8683965	POWER SYSTEM MODIFICATIONS DEAERATING FEED TANK LEVEL CONTROL SYSTEM	A		Y				ALL	
4	DWG 401-8683673	ALARM MODIFICATIONS DEAERATING FEED TANK LEVEL CONTROL SYSTEM	A		Y				ALL	
5	DWG 208-8682665	DEAERATING FEED TANK (DFT) LEVEL CONTROL TRANSMITTER FIREROOM	A		Y				ALL	
6	PDD 302-ELM-250099	SUPPLEMENTAL INFO FOR SCD 18714 DFT LEVEL CONTROL SYSTEM	-		Y				ALL	
7	LAR SRFY-0240-24	DISCREPANCY OF ELECTRICAL EQUIPMENTS IN DWG 8683965 & 8683673 FOR S/A 88714D	-		Y				ALL	
8	MIL MIL-STD-2003	Electric Plant Installation Standard Methods for Surface Ships and Submarines	B		N					
9	DWG 513-8683776	CONTROL AIR MODIFICATIONS DFT LEVEL CONTROL SYSTEM ROOM (8-76-0-E), L/L, STBD	A		Y				ALL	
10	DWG 514-8783549	DIRTY DRAIN PIPING REMOVAL FIRE ROOM	-		Y				ALL	
11	TM 0948-LP-012-5000	Standard Navy Valves	31		Y				SH 4.3-16	
12	DWG 803-4384536	Valves, BRZ, 1/4" - 2" Union End Globe, In-Line & ANG, Stop, Stop Check & Needle	N		Y				ALL	
13	TM S9086-RK-STM-010/CH-505	Piping System	6		N					

3. APPENDICES:

3.1. Appendix "J" TGI Job Summary Information Sheet
3.2. Appendix "M" TGI Material List
3.3. Appendix "D" Deficiency Form

4. GENERAL REQUIREMENTS:

4.1 Not Applicable.

5. PROCEDURE:

5.1 Pump out, clean, and dry the bilge area located in 1.2.1 to free from oil, debris, and other foreign matter.

5.2 Accomplish electrical removals, modifications and installations of the system listed in 1.3.1 and 1.3.2 in accordance with 2.3 through 2.7.

5.2.1 Electrical installations must be in accordance with 2.8.

5.2.2 Fabricate and install each new label plate in accordance with 2.3 and 2.7.

5.2.3 Accomplish the requirements of 009-12 of 2.1, including Table 2, Column(s) D, Lines One through 7.

5.3 Accomplish the piping work for S/A 88714D listed in 1.3.3 through 1.3.5 in accordance with 2.5, 2.9 and 2.10.

5.3.1 Accomplish the requirements of 009-12 of 2.1, including Table One, Column(s) A, Lines One through 10.

5.3.1.1 Accomplish nondestructive testing in accordance with Line 13 for liquid penetrant testing accomplished to satisfy operational pressure test option for DFT level control transmitter piping listed in 1.3.3.

5.3.2 Accomplish the requirements of 009-71 of 2.1 for hydrostatic test, using feed water at 50 PSIG, for new and disturbed DFT level control transmitter piping listed in 1.3.3.

5.3.2.1 Document shop hydrostatic test results on QA Form 28 Enclosure-01-1.

5.3.3 Accomplish the requirements of 009-71 of 2.1 for hydrostatic test, using clean, fresh water at 203 PSIG, for new and disturbed control air tubing listed in 1.3.4.

5.3.3.1 Document shop hydrostatic test results on QA Form 28 Enclosure-01-2.

5.3.4 Accomplish the requirements of 009-71 of 2.1 for hydrostatic test, using clean, fresh water at 50 PSIG, for new and disturbed dirty drain piping system listed in 1.3.5.

5.3.4.1 Document shop hydrostatic test results on QA Form 28 Enclosure-01-3.

5.3.5 Accomplish flow check of dirty drain piping listed in 1.3.5, using clean, fresh water. Allowable external leakage: None.

(V)(G) “FLOW CHECK”

5.4 Accomplish a bonnet ring torque check of each new valve listed in 1.3.6 in accordance with Table 4.3-10 of 2.11, and using 2.12 for guidance.

5.4.1 Inspect and tighten each bonnet ring of each new valve.

(V)(G) “TORQUE CHECK”

5.4.1.1 Torque of each bonnet ring of each new valve is 18 to 20 foot pounds.

5.4.2 Accomplish a hydrostatic test of each new valve listed in 1.3.6, using 2.12 for guidance.

5.4.2.1 Hydrostatic test equipment must conform to the requirements in Paragraph 505-11.1.3 of 2.13.

5.4.3 Accomplish a mechanical joint tightness test of each new valve listed in 1.3.6 with stem in the half- open position, using clean fresh water at 150 PSIG (not less than 150 PSIG and not more than 153 PSIG) for a minimum of 3 minutes. Allowable external leakage: None.

(V)(G) “MECHANICAL JOINT TIGHTNESS TEST”

5.4.4 Document a shop hydrostatic test result on QA Form 28, Enclosure-02-1.

5.4.5 After satisfactory completion of each shop test, drain water from each new valve and blow with clean dry air to remove moisture.

5.4.6 Cycle the valve from fully closed to fully open to fully closed 4 times. Allowable binding: None.

(V)(G) “VALVE CYCLING” (V1)

(V)(G) “VALVE CYCLING” (V1)

5.5 Remove existing and install each new valve positioner listed in 1.3.7 in accordance with DETAIL 35-A of 2.5.

5.6 Remove existing and install each new valve listed in 1.3.6 in accordance with DETAIL 12-A (V1) of 2.9.

5.7 Accomplish the requirements of 009-32 of 2.1 for each new and disturbed surface.

5.8 Notes:

5.8.1 Planner: Code 233 K. Uchimura, 080-9350-1432
Planner: Code 231B T. Ashina, 243-4370
Planner: Code 232 H. Matsubayashi, 243-4509
Planner: Code 234 S. Yamashita, 070-7787-2035

5.8.2 Provision of oily/chemical water barge will be coordinated by Project Team.

5.8.3 Work Integration Manager (WIM): Code 333 T. Yaginuma, 080-5419-0598

5.8.4 JCN EXSA-ZBG1 is related to this TGI.

5.9 Government Furnished Material (GFM)

5.9.1 All GFM listed in each S/A drawing will be provided as kitted material.

5.9.2 SRF-JRMC will provide GFM listed in Appendix “M”.

5.10 SRF-JRMC will provide the following service work: (TGI No. 3819P43701S03).

5.10.1 [C740] Crane and crane rigger service.

5.10.2 [X99E] Utility service, electrical.

5.10.3 [X99M] Utilities service, including low pressure air supply, water supply, and steam supply.

5.10.4 [C106.1] Safety inspection for SRF-JRMC employees.

5.10.5 [C106.2] Gas free inspection for SRF-JRMC employees.

5.10.6 [C133] QA inspection for (G) Symbol(s).

APPENDIX "J"
TGI JOB SUMMARY INFORMATION SHEET

SYSTEM:	PLANT NO.:	COMPONENT NAME:	TYPE:	PHASE:	REPEAT:	CU PH VERSION:	CASREP CAT:
		SA 88714D DFT	AY	A	0	1	

CU PHASE TITLE:
*F/O - S/A 88714D ACCOMPLISH MODIFICATION OF DEAERATING FEED TANK LEVEL CONT SYS

PRIMARY COMPONENT:

COMPONENT UNIT LIST (FOR ASSEMBLIES):
CONT AIR SPLY V1 V- K-14/15SS1 C- K-14/16SS5 C- K-15SS2 C- K-15SS3 C- K-15SS4 C- K-15SS5 C- K-16SS7 C- K-16SS8 C- DFT DUMP LVL CONT CT DFT MAKE-UP LVL CONT CT JB K-16SS1 BX K-15SS6 C- K-16SS1 C- K-16SS2 C- K-16SS3 C- K-16SS4 C- K-16SS9 C- K-5PG2 C- K-5PG3 C- DFT COND LVL A/M STA CS DFT INDICATOR GAUGE GA DFT LVL IND & ALARM ID DFT LVL RADAR XMTR XM POL CTL 8-76-0-E PP DFT SIGHTGLASS DRN PP CNDS 8-76-0-E PP MUFD CONT V34 OP MUFD CONT V34 V- EXCESS FEED CONT V31 OP EXCESS FEED CONT V31 V- DFT SIGHTGLASS SS CMPT 8-76-0-E MS DFT SIGHTGLASS COV V-

ATTACHMENT LIST:
1. ENCLOSURE-01 (3819P43701A01-QA28-01_.docx) saved on 16-APR-2025 0000.
2. ENCLOSURE-02 (3819P43701A01-QA28-02_.docx) saved on 16-APR-2025 0000.

ZONE MANAGER:	ZONE:	COMPARTMENT:	LEVEL:	FRAME:	SIDE:
TAKAHASHI ,YASUHIKO					

JO:	KO:	TOTAL MAN HRS:	TOTAL MAT'L COST	TOTAL DURATION:	PLANNING ACCEPTANCE:
3819P43701	A01				

CU PHASE DESCRIPTION:
The purpose of this TGI is to accomplish modification of deaerating feed tank level control system.

Location of Work:
Fire Room (8-76-0-E)
Engine Room Enclosed Operating Station (6-86-0-E)

TASK NAME	SHOP	TSD/WC	TS	CREW#	MHRS	HIGH RAD HOURS	RC GRID#
5.1 SFTR, LBR							
5.2 ELEC, SFTR, WELD, PNTR, QA, RGRS							
5.3 PFTR, RGRS, WELD, IMCH, OMCH, PNTR, INSL, QA							
5.4 IMCH, QA							
5.5 OMCH							
5.6 OMCH							
5.7 PNTR, QA							
Electrical Work CFM: for banding material, fasteners, insulation tape, plastic bags, rope, and other consumable.							
Structure Work CFM: for marine chemist, all paints, thinner, lead analysis cost, firewatch cost, and misc such as electrode, gases, temporary covering, and other consumable.							
Machinery Work CFM: for fastener, shim, and MISC such as other consumable.							

TGI NO.:	SA 88714D DFT	AY	A	0
SHIP:	LCC-19	CHG/VER:		2/1

TASK NAME	SHOP	TSD/WC	TS	CREW#	MHRS	HIGH RAD HOURS	RC GRID#
Piping Work CFM: for firewatch cost, asbestos sampling/ analyze cost for pipe lagging, covering material, argon gas, disposable coverall, plastic bag/sheet, tape, welding rod, gasket, saw blade, paint, thinner, NDT cost and MISC.							
Process Funding Document.							
Version-1: revise Enclosure-01 and Enclosure-02. C233 M. Hosono, 4/16/2025, -/-/N							

APPENDIX "M"
TGI MATERIAL LIST

SYSTEM:	PLANT NO.:	COMPONENT NAME:	TYPE:	PHASE:	REPEAT:	CU PH VERSION:	CASREP CAT:
		SA 88714D DFT	AY	A	0	1	

CU PHASE TITLE:
*F/O - S/A 88714D ACCOMPLISH MODIFICATION OF DEAERATING FEED TANK LEVEL CONT SYS

MATERIAL REFERENCES

REF NO.	DOCUMENT/DRAWING NUMBER	DOCUMENT/DRAWING TITLE	REV
1	8682665		
2	8683776		
3	7171		
4	8683965		
5	8683673		
6	208-8682665		A
7	514-8783549		
8	302-8683965		A

JOB ORDER:	KEY OP:
3819P43701	A01

MATERIAL LIST

ITEM NO.	PC NO.	REF NO.	M/C	DESCRIPTION	STOCK NUMBER	GENERIC MATL TYPE	LVL	QA	HAZ MAT	DOC NO.	QTY REQD/ UNIT	QTY USED/ UNIT
001	F2	1	M	BOSS, BOSS, 1/2"IPS X 1-1/4" ~ 2-1/2"RUN, SW, 90/10, 400PSI. DWG: 208-8682665, ITEM NO: F2 ORDERED FOR X56P ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 4730 LL4464631		NA	4	N	90927416	2/EA	
002	F13	1	M	RUBBER SHEET SOLID, DWG: 208-8682665, ITEM NO: F13. ORDERED FOR X56P ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 5330 014905051		NA	4	N	90470138	2/SH	

NOTES:

TGI NO.:	SA 88714D DFT	AY	A	0
SHIP:	LCC-19	CHG/VER:		2/1

MATERIAL LIST

ITEM NO.	PC NO.	REF NO.	M / C	DESCRIPTION	STOCK NUMBER	GENERIC MATL TYPE	LVL	QA	HAZ MAT	DOC NO.	QTY REQD/ UNIT	QTY USED/ UNIT
003	F14	1	M	CAP, 2"IPS, SW, CAP, 2"IPS, SW, 90/10, 400PSI. DO NOT CROSS NSN 4730-01-551-5271 SMIC X3 DWG: 208-8682665, ITEM NO: F14 ORDERED FOR X56P ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 4730 LL4462607		NA	4	N	90927415	1/EA	
004	F17	1	M	FLANGE, FLANGE, NAVY, BLIND, 1/2"IPS, CNA 70-30, 150PSI, DWG: 803-6983512, FIG 13-D ITEM 121. DWG: 208-8682665, ITEM NO: F17 ORDERED FOR X56P ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 4730 LL6958848		NA	4	N	90927406	1/EA	
005	F22	1	M	BAR, ROUND, BAR,METAL,ROUND, 5"OD, CU/NI, 90/10, MIL-C-15726 COMP C70600, TEMP: 060 SOFT 80.40 LBS/FT. DWG: 208-8682665, ITEM NO: F22 ALASKAN P/N: 405438 ORDERED FOR X56P ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 9510 LL9307687		NA	4	N	90477427	1/FT	
006	V1	2	M	VALVE, NEEDLE, VALVE, 1/4"IPS, IN-LINE NEEDLE TYPE, 400 PSIG, UNION END, NONMETALLIC DISK SEATING SURFACE, NON-ASBESTOS, BRONZE, NITRILE. DWG: 513-8683776, ITEM NO: V1 ORDERED FOR X56P ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 4820 LL9307675		NA	4	N	90437430	2/EA	
007	F4	2	M	NIPPLE,TUBE, DWG: 513-8683776, ITEM NO: F4 ORDERED FOR X56P ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 4730 003693338		NA	4	N	90430066	2/EA	
008	9	3	M	NUT,SELF-LOCKING,HE, DWG: 445-7171, ITEM NO: 9 ORDERED FOR C282 ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 5310 004838792		NA	4	N	90770025	1/HD	
009	11	3	M	SCREW,CAP,SOCKET HE, DWG: 445-7171, ITEM NO: 11 ORDERED FOR C282 ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 5305 016291493 QX		NA	4	N	90770027	1/EA	
010	12	3	M	WASHER,FLAT, DWG: 445-7171, ITEM NO: 12 ORDERED FOR C282 ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 5310 001670820		NA	4	N	90770028	1/HD	
011		3	M	WASHER,LOCK, DWG: 445-7171, ITEM NO: 13 ORDERED FOR C282 ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 5310 008329712		NA	4	N	90770029	5/EA	

TGI NO.:	SA 88714D DFT	AY	A	0
SHIP:	LCC-19	CHG/VER:		2/1

MATERIAL LIST

ITEM NO.	PC NO.	REF NO.	M / C	DESCRIPTION	STOCK NUMBER	GENERIC MATL TYPE	LVL	QA	HAZ MAT	DOC NO.	QTY REQD/ UNIT	QTY USED/ UNIT
012	F1	1	M	FLANGE, FLANGE C,3/4"IPS,BLIND, BLIND, 150 PSI, CARBON STEEL, ASTM A-105,150 LB,ASTM A-105,ASME B16.5, RAISED FACE. DWG: 208-8682665, ITEM NO: F1 ORDERED FOR X56P ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 4730 LL9307688		NA	4	N	90927405	1/EA	
013	1	4	M	AUTOMATION CONTROL, AUTOMATION CONTROL, FAIRMOUNT AUTOMATION CONTROLLER, MODEL FAC-2100 NRP,CONT,MULTI-LOOP DWG: 302-8683965, ITEM NO: 1 ORDERED FOR X51IC ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 6110 LL9301481		NA	4	N	90397409	1/EA	
014	2	4	M	CONNECTOR,PLUG,ELEC, DWG: 302-8683965, ITEM NO: 2 ORDERED FOR X51IC ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 5935 010769450		NA	4	N	90390058	1/EA	
015	3	4	M	CONNECTOR,PLUG,ELEC, DWG: 302-8683965, ITEM NO: 3 ORDERED FOR X51IC ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 5935 011579553		NA	4	N	90390061	1/EA	
016	4	4	M	CONNECTOR,PLUG,ELEC, DWG: 302-8683965, ITEM NO: 4 ORDERED FOR X51IC ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 5935 010775856		NA	4	N	90390066	1/EA	
017	5	4	M	CONNECTOR,PLUG,ELEC, DWG: 302-8683965, ITEM NO: 5 ORDERED FOR X51IC ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 5935 011150215		NA	4	N	90390068	1/EA	
018	6	4	M	BACKSHELL,ELECTRICA, DWG: 302-8683965, ITEM NO: 6 ORDERED FOR X51IC ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 5935 011729918		NA	4	N	90390071	1/EA	
019	7	4	M	BACKSHELL,ELECTRICA, DWG: 302-8683965, ITEM NO: 7 ORDERED FOR X51IC ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 5935 013235804		NA	4	N	90390072	3/EA	
020	15	4	M	CABLE,SPECIAL PURPO, DWG: 302-8683965, ITEM NO: 15 ORDERED FOR X51IC ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 6145 012027769		NA	4	N	90390081	120/FT	

TGI NO.:	SA 88714D DFT	AY	A	0
SHIP:	LCC-19	CHG/VER:		2/1

MATERIAL LIST

ITEM NO.	PC NO.	REF NO.	M / C	DESCRIPTION	STOCK NUMBER	GENERIC MATL TYPE	LVL	QA	HAZ MAT	DOC NO.	QTY REQD/ UNIT	QTY USED/ UNIT
021	F16	1	M	UNION TA, UNION TAILPIECE ASSY, SIZE: 1/2"IPS, SOCKET WELDING,CU-NI 90/10,400 PSI,COPPER-NICKEL TAILPIECE WITH BRONZE NUT,SEAL TYPE : NITRILE O-RING WITH RETAINER RING.803-7063850. DWG: 208-8682665, ITEM NO: F16 ORDERED FOR X56P ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 4730 LL4699742		NA	4	N	90507413	4/EA	
022	F5	2	M	UNION TA, UNION TAILPIECE ASSY, SIZE: 1/4"IPS, SOCKET WELDING, CNA 90-10, 400 PSI, COPPER-NICKEL TAILPIECE WITH BRONZE NUT, SEAL TYPE : NITRILE O-RING WITH RETAINER RING. DWG: 513-8683776, ITEM NO: F5 ORDERED FOR X56P ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 4730 LL4601697		NA	4	N	90437447	4/EA	
023	F7	2	M	PIPE HANGER, PIPE HANGER, 3/8"OD, TY 35B, STEEL, 2-3/4" STUD LENGTH. DWG: 513-8683776, ITEM NO: F7 ORDERED FOR X56P ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 4730 LL4658203		NA	4	N	90437426	4/EA	
024	4	3	M	STANDOFF HEX, STANDOFF HEX, FEMALE THREADED 10-32UNF SCREW SIZE, 1-1/2"LG STAINLESS STEEL 18-8, HEX SIZE: 1/4", PARTIALLY THREADED, MINIMUM THREAD LENGTH 1/2", ASTM A582. DWG: 445-7171, ITEM NO: 4 ORDERED FOR C282 ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 5305 LL4647606		NA	4	N	90777404	2/EA	
025	5	3	M	NUT,SELF-LOCKING,HE, DWG: 445-7171, ITEM NO: 5 ORDERED FOR C282 ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 5310 008775797		NA	4	N	90770021	1/HD	
026	8	3	M	WASHER,FLAT, DWG: 445-7171, ITEM NO: 8 ORDERED FOR C282 ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 5310 008098546		NA	4	N	90770024	1/MX	
027	10	3	M	BOLT,MACHINE, DWG: 445-7171, ITEM NO: 10 ORDERED FOR C282 ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 5306 002258499		NA	4	N	90770026	1/HD	
028	14	3	M	NUT, HEX, NUT, HEX 18-8 STAINLESS STEEL,3/8"-24UNF-2B. DWG: 445-7171, ITEM NO: 14 ORDERED FOR C282 ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 5310 LL4647610		NA	4	N	90777405	1/EA	

MATERIAL LIST

ITEM NO.	PC NO.	REF NO.	M / C	DESCRIPTION	STOCK NUMBER	GENERIC MATL TYPE	LVL	QA	HAZ MAT	DOC NO.	QTY REQD/ UNIT	QTY USED/ UNIT
029	16	3	M	ROD END , ROD END CRES, BALL BORE : 0.250", BALL WIDTH : 0.375", HEAD TO CENTER : 1.312", HEAD DIA : 0.750", 1/4-28UNF-3B, RIGHT HAND FEMALE DWG: 445-7171, ITEM NO: 16 ORDERED FOR C282 ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 3040 LL4647617		NA	4	N	90777406	1/EA	
030	17	3	M	ROD END , ROD END CRES, BALL BORE : 0.250", BALL WIDTH : 0.375", HEAD TO CENTER : 1.312", HEAD DIA : 0.750", 1/4-28UNF-3B, LEFT HAND FEMALE DWG: 445-7171, ITEM NO: 17 ORDERED FOR C282 ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 3040 LL4647618		NA	4	N	90777407	1/EA	
031	18	3	M	NUT, JAM NUT, 1/4"-28UNF-2B, RH, MATL: CRES, FOR SW-4E, ROD END, DWG: 445-7171, ITEM NO: 18 ORDERED FOR C282 ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 5310 LL9307791		NA	4	N	90787429	1/EA	
032	19	3	M	NUT, JAM NUT, 1/4"-28UNF-2B, LH, MATL: CRES, FOR ROD END, 1/4"-28UNF, LH FEMALE, P/N: SG-4E, DWG: 445-7171, ITEM NO: 19 ORDERED FOR C282 ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 5310 LL9307792		NA	4	N	90787430	1/EA	
033	10	4	M	CONVERTER,SIGNAL DA, DWG: 302-8683965, ITEM NO: 10 ORDERED FOR X51IC ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 5895 016252900		NA	4	N	90390074	1/EA	
034	11	4	M	FUSE,CARTRIDGE, DWG: 302-8683965, ITEM NO: 11 ORDERED FOR X51IC ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 5920 002808342		NA	4	N	90390076	1/EA	
035	13	4	M	CABLE,POWER,ELECTRI, DWG: 302-8683965, ITEM NO: 13 ORDERED FOR X51IC ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 6145 012027750		NA	4	N	90390077	60/FT	
036	14	4	M	CABLE,POWER,ELECTRI, DWG: 302-8683965, ITEM NO: 14 ORDERED FOR X51IC ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 6145 012026973		NA	4	N	90390079	200/FT	

MATERIAL LIST

ITEM NO.	PC NO.	REF NO.	M / C	DESCRIPTION	STOCK NUMBER	GENERIC MATL TYPE	LVL	QA	HAZ MAT	DOC NO.	QTY REQD/ UNIT	QTY USED/ UNIT
037	F6	2	M	ADAPTER, FLAGG STANLEY P/N: 6863-040, PREMIER P/N: 99161040, W&O P/N: 640063.040 ADAPTER, 1/4"IPS, FEMALE PIPE THREAD X SOCKET WELDING, CNA 90-10. DWG: 513-8683776, ITEM NO: F6 ORDERED FOR X56P ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 4730 LL4920998		NA	4	N	90437429	4/EA	
038	V1	1	M	VALVE,GATE, DWG: 208-8682665, ITEM NO: V1 ORDERED FOR X56P ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 4820 011382982		NA	4	N	90470132	2/EA	
039	F7	1	M	STUD, STUD, 1/2"-13UNC-3A X 4"LG, GR-400. MONEL,MIL-DTL-1222, TYPE-IV, GR-400,STUD BOLT, CONTINUOUS THREAD. DO NOT CROSS NSN: 5307-01-307-0377 (LEVEL 1 MATERIAL). DWG: 208-8682665, ITEM NO: F7 ORDERED FOR X56P ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 5307 LL9307689		NA	4	N	90477429	24/EA	
040	F8	1	M	WASHER,LOCK, DWG: 208-8682665, ITEM NO: F8 ORDERED FOR X56P ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 5310 001872429		NA	4	N	90470134	1/HD	
041	F9	1	M	NUT,PLAIN,HEXAGON, DWG: 208-8682665, ITEM NO: F9 ORDERED FOR X56P ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 5310 015921568		NA	4	N	90470135	48/EA	
042	F10	1	M	SCREW, SCREW, HEX CAP, 5/8"-11UNC-2A X 3"LG, CRES 316,MIL-DTL-1222 TYPE I ,ANNEALED. DWG: 208-8682665, ITEM NO: F10 ORDERED FOR X56P ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 5305 LL9307690		NA	4	N	90477430	4/EA	
043	F11	1	M	NUT,PLAIN,HEXAGON, DWG: 208-8682665, ITEM NO: F11 ORDERED FOR X56P ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 5310 013722670		NA	4	N	90470136	4/EA	
044	1	3	M	SCREW, SCREW, SOCKET, FLAT HEAD, M6 X 12MML, ALLOY STEEL, BLACK OXIDE, DIN 7991, CLASS 10.9, 1 PCK = 100EA. DWG: 445-7171, ITEM NO: 1 ORDERED FOR C282 ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 5305 LL6987472		NA	4	N	91317455	1/PG	

MATERIAL LIST

ITEM NO.	PC NO.	REF NO.	M / C	DESCRIPTION	STOCK NUMBER	GENERIC MATL TYPE	LVL	QA	HAZ MAT	DOC NO.	QTY REQD/ UNIT	QTY USED/ UNIT
045	2	3	M	SCREW, SCREW, SOCKET, FLAT HEAD, COUNTERSUNK 82 DEGREES, #10-32UNF X 3/8" LENGTH,, 18-8 STAINLESS STEEL, 50EA/PG. DWG: 445-7171, ITEM NO: 2 ORDERED FOR C282 ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 5305 LL9307793		NA	4	N	91317456	100/EA	
046	6	3	M	SCREW,CAP,HEXAGON H, DWG: 445-7171, ITEM NO: 6 ORDERED FOR C282 ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 5305 001484275		NA	4	N	90770022	1/EA	
047	7	3	M	WASHER,FLAT, DWG: 445-7171, ITEM NO: 7 ORDERED FOR C282 ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 5310 008238804		NA	4	N	90770023	1/HD	
048	8	4	M	ENCLOSURE, CONTROL PANEL ENCLOSURE, 10" X 8" X 6", ON/OFF START/STOP, GREY. MODEL NUIMBER: 1414N4PHI6, CONTINUOUS HINGED TYPE, NEMA TYPE 12. DWG: 302-8683965, ITEM NO: 8 ORDERED FOR X51IC ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 5975 LL9307665		NA	4	N	90397437	1/EA	
049	9	4	M	TERMINAL BOARD, DWG: 302-8683965, ITEM NO: 9 ORDERED FOR X51IC ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 5940 009836053		NA	4	N	90390073	1/EA	
050	P1	2	M	TUBE,METALLIC, DWG: 513-8683776, ITEM NO: P1 ORDERED FOR X56P ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 4710 002774027		NA	4	N	90430063	20/FT	
051	F2	2	M	ADAPTER, ADAPTER, STRAIGHT, MALE PIPE 3/8" OD X 1/4" NPT, NSN 4730-00-580-2070, QDR: N62758-18-0023 DWG: 513-8683776, ITEM NO: F2 ORDERED FOR X56P ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 4730 LL9307679		NA	4	N	90457422	8/EA	
052	P1	1	M	TUBE,METALLIC, DWG: 208-8682665, ITEM NO: P1 ORDERED FOR X56P ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 4710 002774655		NA	4	N	90470130	5/FT	
053	P2	1	M	TUBE,METALLIC, DWG: 208-8682665, ITEM NO: P2 ORDERED FOR X56P ORIG: Y.TSUCHIYA. PHONE:243-4488	3B 4710 002898006		NA	4	N	90470131	10/FT	

MATERIAL LIST

ITEM NO.	PC NO.	REF NO.	M / C	DESCRIPTION	STOCK NUMBER	GENERIC MATL TYPE	LVL	QA	HAZ MAT	DOC NO.	QTY REQD/ UNIT	QTY USED/ UNIT
054	10	4	M	CONVERTER, CONVERTER,SIGNAL, ONE, 4-20MA INPUT, TWO 4-20MA OUTPUTS, MULTI-CHANNEL DESIGN, 2000VAC ISOLATION, UNIVERSAL DC POWER 10.8 TO 26.4 VDC, HIGH DENSITY DIN RAIL MOUNTING, DWG: 302-8683965, ITEM NO: 10 ORDERED FOR X51IC ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 5895 LL9307693		NA	4	N	90477433	1/EA	
055	F3	1	M	ELBOW,PIPE, DWG: 208-8682665, ITEM NO: F3 ORDERED FOR X56P ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 4730 016051394		NA	4	N	90470133	2/EA	
056	F12	1	M	FLANGE, FLANGE, SIZE: 2" IPS, SW, FLAT FACE, 150PSI, MATL: CNA 90-10, , REF DWG: 803-6983512, FIGURE 39-E, ITEM. 229. DWG: 208-8682665, ITEM NO: F12 ORDERED FOR X56P ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 4730 LL4462151		NA	4	N	90927414	1/EA	
057	1	5	M	CONNECTOR,PLUG,ELEC, DWG: 401-8683673, ITEM NO: 1 ORDERED FOR X51IC ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 5935 010769452		NA	4	N	90390050	1/EA	
058	2	5	M	BACKSHELL,ELECTRICA, DWG: 401-8683673, ITEM NO: 2 ORDERED FOR X51IC ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 5935 011729912		NA	4	N	90390053	1/EA	
059	3	5	M	CABLE,SPECIAL PURPO, DWG: 401-8683673, ITEM NO: 3 ORDERED FOR X51IC ORIG: Y.TSUCHIYA. PHONE:243-4488	9B 6145 012027772		NA	4	N	90390055	120/FT	
060	F20	6	M	POSITIONER,VALVE, ORDER FOR KTR ORIG: C-226 Y. TSUCHIYA 080-9350-1436	3B 4820 016928990		NA	4	N	42775205	2/EA	
061	P1	7	M	TUBE,MET, ORDER FOR KTR ORIG: C-226 Y. TSUCHIYA 080-9350-1436	9B 4710 002774657		NA	4	N	42775032	3/FT	
062	F1	7	M	COUPLING, ORDER FOR KTR ORIG: C-226 Y. TSUCHIYA 080-9350-1436	9B 4730 014635857		NA	4	N	42775029	2/EA	
063	12	8	M	LABEL PLATE, LABEL PLATE, MANUFACTURE LABEL PLATE IAW ATTACHED DETAILS. THE ORIGINATOR WILL PROVIDE THE LABEL PLATE DETAILS. ORDER FOR KTR ORIG: C-226 Y. TSUCHIYA 080-9350-1436	9B 9905 LL1111111		NA	4	N	50077604	1/GP	

TGI NO.:	SA 88714D DFT	AY	A	0
SHIP:	LCC-19	CHG/VER:		2/1

MATERIAL LIST

ITEM NO.	PC NO.	REF NO.	M / C	DESCRIPTION	STOCK NUMBER	GENERIC MATL TYPE	LVL	QA	HAZ MAT	DOC NO.	QTY REQD/ UNIT	QTY USED/ UNIT
064			M	RAIL,ASSEMBLY, C233 K. UCHIMURA, 080-9350-1432 ORDERED FOR KTR	9B 5940 991194382		NA	4	N	50945206	1/EA	
065			M	PAD, TAPPED ROUND, PAD, TAPPED ROUND, 1/4"-20UNC-2B X 1"LG, STEEL, CARBON, AISI-1020, CENTERED, CONCENTRIC INTERNAL THREAD THRU HOLE 5/8" OD, FINISH: PLAIN. BIW CATALOG NO.53204-155 C233 K. UCHIMURA, 080-9350-1432 ORDERED FOR KTR	9B 5340 LL9003506		NA	4	N	50947621	4/EA	
066			M	TRANSMITTER,RADAR, C233 K. UCHIMURA, 080-9350-1432 ORDERED FOR KTR	3B 5840 015422685 PP		NA	4	N	50945226	1/EA	
067			M	BACKSHELL,ELECTRICA, C233 K. UCHIMURA, 080-9350-1432 ORDERED FOR KTR	9B 5935 014868492		NA	4	N	50945109	1/EA	
068			M	BACKSHELL,ELECTRICA, C233 K. UCHIMURA, 080-9350-1432 ORDERED FOR KTR	9B 5935 011595803		NA	4	N	50935601	3/EA	
069			M	BACKSHELL,ELECTRICA, C233 K. UCHIMURA, 080-9350-1432 ORDERED FOR KTR	9B 5935 011716669		NA	4	N	50945106	1/EA	

FOUO

☐ NUCLEAR

APPENDIX "D"
DEFICIENCY FORM

☐ NON-NUCLEAR

1. SHIP/HULL NO.:	2a. DL or DR No. (Circle One)	2b. REVISION:	3a. COMPONENT NAME:	3b. TYPE:	3c. PHASE:	3d. REPEAT:
LCC-19			SA 88714D DFT	AY	A	0

4a. ICN:	4b. KEY OP:	5. LOC SPACE/LVL: FRAME: P/S/C:	6. CAUSED BY:
3819P43701	A01		

7. DESCRIPTION:

8. ORIGINATOR:	NAME: BADGE:	SHOP/CODE:	DATE:	PHONE NO.:

9. CORRECTIVE ACTION:

10. EVALUATOR:	NAME: BADGE:	SHOP/CODE:	DATE:	PHONE NO.:

FOR NON-NUCLEAR USE ONLY

11. RFD/RFW REQ'D ☐ LAR REQ'D ☐ ILS MOD REQ'D ☐	SRD/PLAN REV REQ'D ☐ DWG NO.: _____ S/A NO.: _____

12. ISOLATION SATISFACTORY:	SIGN: BADGE:	SHOP/CODE:	DATE:	PHONE NO.:

13. SUBSAFE OQE RECORD? YES ☐ NO ☐	SIGN: BADGE:	SHOP/CODE:	DATE:	PHONE NO.
14. CORRECTIVE ACTION COMPLETE:	SIGN: BADGE:	SHOP/CODE:	DATE:	PHONE NO.
15. INSPECTION REQ'D? :YES ☐ NO ☐	INSPECTION COMPLETE/SIGN: BADGE:	SHOP/CODE:	DATE:	PHONE NO.
16. RECORDS REVIEW COMPLETE (DR ONLY)	SIGN: BADGE:	SHOP/CODE:	DATE:	PHONE NO.

DL's ISSUED (DR ONLY)								

☐ NUCLEAR **Deficiency Form Continuation Sheet** ☐ NON-NUCLEAR

1. SHIP/HULL NO.:	2a. DL or DR No. (Circle One)	2b. REVISION:	3a. COMPONENT NAME:	3b. TYPE:	3c. PHASE:	3d. REPEAT:
LCC-19			SA 88714D DFT	AY	A	0

SHOP TEST RECORD

QA FORM 28 Planning must fill in blocks identified by a ♦ prior to issuing

♦1. SHIP	HULL NO.	♦2. JCN	♦3. LWC/SHOP	♦4. CWP/REC SER NO.	5. SYSTEM/COMPONENT/ROTATABLE POOL SER NO.
USS BLUE RIDGE	LCC-19	EXSA-ZBG1	KTR	N/A	DFT Level Control Transmitter Piping

	♦6. REFERENCES: TEST REF (E.G., MS, TECH MAN) & OTHER REFS (E.G., VLV DWG)	7. TEST GAGE RANGE /INSTRUMENT USED	SERIAL NO.	CAL DUE DATE	8. RELIEF VLV SET POINT
A.	DWG: 208-8682665 Rev. A				
B.	S9086-RK-STM-010/CH-505 Rev.6				
C.					
D.					

9. TEST REQUIREMENTS & RESULTS

TEST TYPE KEY	**H** = STRENGTH AND POROSITY/ELEVATED PRESSURE TEST	**J** = MECHANICAL JOINT TIGHTNESS	**ST** = SEAT TIGHTNESS	**OP** = OPERATIONAL	**O** = OTHER (SPECIFY):

♦ TEST TYPE (SEE KEY)	♦ PARAGRAPH DESCRIBING VALVE POSITION AND POINT OF ENTRY	♦ REF LTR	GAGE USED (LTR FROM BLK 7)	♦ REQUIRED MEDIUM	MEDIUM USED	♦ REQUIRED PRESSURE	ACTUAL PRESSURE	♦ MINIMUM DURATION	ACTUAL DURATION	♦ ALLOWED LEAKAGE	ACTUAL LEAKAGE	SAT/UNSAT	SIGNATURE, BADGE NO. & DATE
H	5.3.2	A,B		Feed Water		50 PSIG		30 minutes		None			

10. REMARKS. (CRAFTSMAN/QAI SUBMIT A DF TO RESOLVE UNSAT DATA)

11. QA INSPECTOR/SHOP SUPERVISOR SIGNATURE/BADGE NO. (RECORD REVIEWED FOR FINAL ACCEPTANCE)	DATE	12. QAS SIGNATURE/BADGE NO. (RECORD HAS BEEN REVIEWED FOR COMPLETENESS)	DATE

SHOP TEST RECORD

QA FORM 28 Planning must fill in blocks identified by a ♦ prior to issuing

♦1. SHIP	HULL NO.	♦2. JCN	♦3. LWC/SHOP	♦4. CWP/REC SER NO.	5. SYSTEM/COMPONENT/ROTATABLE POOL SER NO.
USS BLUE RIDGE	LCC-19	EXSA-ZBG1	KTR	N/A	Control Air Tubing

	♦6. REFERENCES: TEST REF (E.G., MS, TECH MAN) & OTHER REFS (E.G., VLV DWG)	7. TEST GAGE RANGE /INSTRUMENT USED	SERIAL NO.	CAL DUE DATE	8. RELIEF VLV SET POINT
A.	DWG: 513-8683776 Rev. A				
B.	S9086-RK-STM-010/CH-505 Rev.6				
C.					
D.					

9. TEST REQUIREMENTS & RESULTS

TEST TYPE KEY	**H** = STRENGTH AND POROSITY/ELEVATED PRESSURE TEST	**J** = MECHANICAL JOINT TIGHTNESS	**ST** = SEAT TIGHTNESS	**OP** = OPERATIONAL	**O** = OTHER (SPECIFY):

♦ TEST TYPE (SEE KEY)	♦ PARAGRAPH DESCRIBING VALVE POSITION AND POINT OF ENTRY	♦ REF LTR	GAGE USED (LTR FROM BLK 7)	♦ REQUIRED MEDIUM	MEDIUM USED	♦ REQUIRED PRESSURE	ACTUAL PRESSURE	♦ MINIMUM DURATION	ACTUAL DURATION	♦ ALLOWED LEAKAGE	ACTUAL LEAKAGE	SAT/UNSAT	SIGNATURE, BADGE NO. & DATE
H	5.3.3	A,B		Clean Fresh Water		203 PSIG		30 minutes		None			

10. REMARKS. (CRAFTSMAN/QAI SUBMIT A DF TO RESOLVE UNSAT DATA)

11. QA INSPECTOR/SHOP SUPERVISOR SIGNATURE/BADGE NO. (RECORD REVIEWED FOR FINAL ACCEPTANCE)	DATE	12. QAS SIGNATURE/BADGE NO. (RECORD HAS BEEN REVIEWED FOR COMPLETENESS)	DATE

SHOP TEST RECORD

QA FORM 28 Planning must fill in blocks identified by a ♦ prior to issuing

♦1. SHIP	HULL NO.	♦2. JCN	♦3. LWC/SHOP	♦4. CWP/REC SER NO.	5. SYSTEM/COMPONENT/ROTATABLE POOL SER NO.
USS BLUE RIDGE	LCC-19	EXSA-ZBG1	KTR	N/A	Dirty Drain Piping

	♦6. REFERENCES: TEST REF (E.G., MS, TECH MAN) & OTHER REFS (E.G., VLV DWG)	7. TEST GAGE RANGE /INSTRUMENT USED	SERIAL NO.	CAL DUE DATE	8. RELIEF VLV SET POINT
A.	DWG: 514-8785349 Rev. "-"				
B.	S9086-RK-STM-010/CH-505 Rev.6				
C.					
D.					

9. TEST REQUIREMENTS & RESULTS

TEST TYPE KEY	**H** = STRENGTH AND POROSITY/ELEVATED PRESSURE TEST	**J** = MECHANICAL JOINT TIGHTNESS	**ST** = SEAT TIGHTNESS	**OP** = OPERATIONAL	**O** = OTHER (SPECIFY):

♦ TEST TYPE (SEE KEY)	♦ PARAGRAPH DESCRIBING VALVE POSITION AND POINT OF ENTRY	♦ REF LTR	GAGE USED (LTR FROM BLK 7)	♦ REQUIRED MEDIUM	MEDIUM USED	♦ REQUIRED PRESSURE	ACTUAL PRESSURE	♦ MINIMUM DURATION	ACTUAL DURATION	♦ ALLOWED LEAKAGE	ACTUAL LEAKAGE	SAT/UNSAT	SIGNATURE, BADGE NO. & DATE
H	5.3.4	A,B		Clean Fresh Water		50 PSIG		30 minutes		None			

10. REMARKS. (CRAFTSMAN/QAI SUBMIT A DF TO RESOLVE UNSAT DATA)

11. QA INSPECTOR/SHOP SUPERVISOR SIGNATURE/BADGE NO. (RECORD REVIEWED FOR FINAL ACCEPTANCE)	DATE	12. QAS SIGNATURE/BADGE NO. (RECORD HAS BEEN REVIEWED FOR COMPLETENESS)	DATE

SHOP TEST RECORD

QA FORM 28 Planning must fill in blocks identified by a ♦ prior to issuing

♦1. SHIP	HULL NO.	♦2. JCN	♦3. LWC/SHOP	♦4. CWP/REC SER NO.	5. SYSTEM/COMPONENT/ROTATABLE POOL SER NO.
USS BLUE RIDGE	LCC-19	EXSA-ZBG1	KTR	N/A	Control Air supply valves for positioner (V1)

	♦6. REFERENCES: TEST REF (E.G., MS, TECH MAN) & OTHER REFS (E.G., VLV DWG)	7. TEST GAGE RANGE /INSTRUMENT USED	SERIAL NO.	CAL DUE DATE	8. RELIEF VLV SET POINT
A.	DWG: 5138683776 Rev. A				
B.	S9086-RK-STM-010/CH-505 Rev.6				
C.					
D.					

9. TEST REQUIREMENTS & RESULTS

TEST TYPE KEY	**H** = STRENGTH AND POROSITY/ELEVATED PRESSURE TEST	**J** = MECHANICAL JOINT TIGHTNESS	**ST** = SEAT TIGHTNESS	**OP** = OPERATIONAL	**O** = OTHER (SPECIFY): _____

♦ TEST TYPE (SEE KEY)	♦ PARAGRAPH DESCRIBING VALVE POSITION AND POINT OF ENTRY	♦ REF LTR	GAGE USED (LTR FROM BLK 7)	♦ REQUIRED MEDIUM	MEDIUM USED	♦ REQUIRED PRESSURE	ACTUAL PRESSURE	♦ MINIMUM DURATION	ACTUAL DURATION	♦ ALLOWED LEAKAGE	ACTUAL LEAKAGE	SAT/UNSAT	SIGNATURE, BADGE NO. & DATE
J	PARA 5.4.3	A, B		Clean fresh water		150 psig		3 minutes		None			

10. REMARKS. (CRAFTSMAN/QAI SUBMIT A DF TO RESOLVE UNSAT DATA)

11. QA INSPECTOR/SHOP SUPERVISOR SIGNATURE/BADGE NO. (RECORD REVIEWED FOR FINAL ACCEPTANCE)	DATE	12. QAS SIGNATURE/BADGE NO. (RECORD HAS BEEN REVIEWED FOR COMPLETENESS)	DATE