

Spec Item: E-07	<b>SPECIFICATION</b>	TC/MS Field #: N/A
<b>RELIEF VALVE CERTIFICATION</b>		

## E-07 RELIEF VALVE CERTIFICATION

### Part 1: SCOPE:

- 1.1** There are 25 air, and heating fluid safety relief valves which require recertification for TC/MS. The Contractor is to remove these valves and transport them to a recognized facility for testing and recertification

### Part 2: REFERENCES:

VALVE	LOCATION	S/N	TYPE	SET POINT	SIZE
#1 Thermal Heating Unit	Heating Space	L85	Kunkle 910 J 122	100 PSI	2"X 3"
#2 Thermal Heating Unit	Heating Space	L85	Kunkle 910 J 122	100 PSI	2"X 3"
Emergency Air Receiver	Emergency D/G Rm	TH02745	Consolidated 1990C-1	3200 kpa	1"
Main Air Receiver (Fwd)	Upper Engine Room (S)	NV 3921	Kunkle 264	465 PSI	1"
Main Air Receiver (Aft)	Upper Engine Room (S)	NV 3924	Kunkle 264-1	465 PSI	1"
Ship Service Starting Air	Upper Engine Room (S)	N/V 3920	Kunkle 6010EEM01-KM	140 PSI	1"
Whistle Air Tank	Stack	N/V 3690	Kunkle 6010FFM01-KM	140 PSI	1 ¼ "
#1 Main Starting Air Comp 1 <sup>st</sup> Stage	Upper Engine Room (S)	1-041974	Sauer 810SGK	4 bar	½" BSP
#1 Main Starting Air Comp 2 <sup>nd</sup> Stage	Upper Engine Room (S)	1-041977	Sauer 810SGK	12 bar	½" BSP
#1 Main Starting Air Comp 3 <sup>rd</sup> Stage	Upper Engine Room (S)	1-042700	Sauer 810SGK	48 bar	½" BSP
#2 Main Starting Air Comp 1 <sup>st</sup> Stage	Upper Engine Room (S)	41974	Sauer 810SGK	4 bar	½" BSP
#2 Main Starting Air Comp 2 <sup>nd</sup> Stage	Upper Engine Room (S)	41977	Sauer 810SGK	12 bar	½" BSP
#2 Main Starting Air Comp 3 <sup>rd</sup> Stage	Upper Engine Room (S)	42700	Sauer 810SGK	48 bar	½" BSP
#1 Service Air Comp 1 <sup>st</sup> Stage	Upper Engine Room (S)	321711230	Sauer 810SGK	10 bar	½" BSP

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VALVE	LOCATION	S/N	TYPE	SET POINT	SIZE
#1 Service Air Comp 2 <sup>nd</sup> Stage	Upper Engine Room (S)	361713532	Sauer 810SGK	42 bar	½" BSP
#2 Service Air Comp 1 <sup>st</sup> Stage	Upper Engine Room (S)	321711202	Sauer 810SGK	10 Bar	½" BSP
#2 Service Air Comp 2 <sup>nd</sup> Stage	Upper Engine Room (S)	251721983	Sauer 810SGK	42 bar	½" BSP
Service Air Reducing Station	Upper Engine Room (S)	NV1169	6010EDM01-AM	50 PSI	¾"
Reducing Station to Service Air	Upper Engine Room (S)		6010EEM01-AM	140 PSI	1"
Emergency Air Comp 1 <sup>st</sup> Stage	Emergency D/G Rm	NV5450	Hatlappa 40.10.50	7 bar	½" BSP
Emergency Air Comp 2 <sup>nd</sup> Stage	Emergency D/G Rm	NV5449	Hatlappa 40.10.60	32 bar	½" BSP
Emergency Generator Air Start Supply Line	Emergency D/G Rm	NV5811	Kunkle	1100 KPa	1 ½" NPT
Firemain Pressure Relief Valve	Aux. Machinery Space Stbd Side	71326-1	Aquatrol 69F22S1M2U1	120 psi	2" NPT
Stability System Blower #1 Relief	Lower Main Gen Rm Stbd Side			0.55 Bar	
Stability System Blower #2 Relief	Lower Main Gen Rm Stbd Side			0.55 Bar	

### Part 3: TECHNICAL DESCRIPTION:

- 3.1 The Contractor is to be responsible for all inspections and is to consult with TC/MS, prior to commencement of work, to determine an inspection schedule; at each inspection point, the Contractor is to advise the Technical Authority, in advance, to allow his/her attendance.
- 3.2 Lock-out of air inlet valves shall be on a case-by-case basis by ship's personnel, with TFHU's being isolated at the respective circuit breaker/MCC by the ship's Electrical Officer.
- 3.3 Air relief valves shall be removed in such a way as to allow ship service air to the vessel to remain uninterrupted as much as possible; the Contractor is to provide 24 hours notice of any interruption of ship service air supply to allow ship's personnel to make alternative arrangements, if required.

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- 3.4** Suitable blanks/plugs are to be installed in the piping/receivers while the safety valves are removed; the Technical Authority (or designate) are to witness the removal of the blanks/plugs upon reinstallation of the relief valves.
- 3.5** Contractor-supplied thread sealant or new gasket material is to be used on re-installation; connections are to be proven leak-free, using the medium normally contained in the receiver/piping at operating pressure.
- 3.6** The Contractor is to allow for any adjustments or repairs required as a result of the above recertification procedures. Any repairs required over and above cleanup, adjustment and recertification will be adjusted by 1379 action. Any valves failing to operate as required will be replaced by 1379 action.

#### **Part 4: PROOF OF PERFORMANCE:**

- 4.1** Original test certificates are to be supplied to the Technical Authority within three working days of the completion of all work.