

**LITHIUM BROMIDE AIR CONDITIONING PLANT
STANDARD ENGINEERING DEPARTMENT LOG**

637 CL SUBMARINES

(*)NOTE: Circled figures are critical values requiring shutdown and/or immediate corrective action.)

FOR OFFICIAL USE ONLY

<i>Special Instructions: See reverse for important notes (1) - (10); Equilibrium Diagram; Watch Hours/Comments; and Signature blocks.</i>				USS										SSN					DATE				ENGR LOG NO (FILE BY)				
HOURLY CHECKS	MAX	NORM	MIN	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1. Evaporator Absolute Press in Hg ABS	.36	.28(-)	*.20																								
2. Generator Pump Disch Press PSI	10	4.5(-)	2																								
3. Absorber Pump Discharge in Hg VAC	5	10	13																								
4. Refrigerant Pump Discharge Press PSI	9	4.5	0																								
5. Strong Solution Temp. °F	*225	204 to 220(-)	154																								
6. Refrigerant Overflow Temp. °F (Note 3)	90	60-70	*35																								
7. Vapor Condensate Temp. °F (Note 8)	*115	109(-)	95																								
8. Sea Water in Absorber °F	89	85(±3)	81																								
9. Sea Water out Absorber °F	99	94(-)	85																								
10. Sea Water out Condenser °F	106	101(-)	90																								
11. Chilled Water Inlet Temp. °F	56	52(-)	45																								
12. Chilled Water Outlet Temp. °F	49	45(-)	*38																								
13. Chilled Water Flow in H2O	150	80	*45																								
14. Strong Solution out of Ht. Exch. °F (Note 2)	161	149(-)	119																								
15. Absorber Sump Level In	6	3-4(±)	*1																								
16. Air Press PSI (Note 4)			3																								
17. Steam Press PSI	*33	30(-)	4																								
18. Purge Pump Disch Press PSI (Note 5)	61	50±5	39																								
19. Refrigerant Pump Suct. Temp. °F (Note 2)	48	44(-)	*35																								
DAILY CHECKS	MAX	NORM	MIN	TIME 0000 1200		DAILY CHECKS			MAX	NORM	MIN	TIME 0000 1200		DAILY CHECKS			MAX	NORM	MIN	TIME 0000 1200							
1. Weak Solution Specific Gravity (Note 6)	1.72	1.71(-)	1.60			8. Generator Pump Suct. Temp. °F (Note 2)	107	104 (-)	90					15. Absorber Leak Detection aft PSI/inHg	10	0	5										
2. Weak Solution Sample Temp. °F (Note 6)	1.03	97(-)	86			9. Absorber Solution Sat. Temp. °F (Note 7)	47	43(-)	34					16. Purge Tank Level In.	14		8										
3. Weak Solution % Concentration (Note 7)	61	60(-)	52			10. Absorber Temp. Spread °F (Note 7)	3	1	0					17. Charge Adjustments gal.	Initial	Added	mvd gal.	balance									
4. Purge Tank Specific Gravity (Note 6)	1.63	1.56-1.62	1.55			11. Equilibrium Diagram Plotted (Note 9)	<input type="checkbox"/> Yes <input type="checkbox"/> No							17a. Refrigerant (Note 10)													
5. Purge Tank Sample Temp. °F (Note 6)	70	45-69	44			12. Condenser Leak Detection fwd PSI/in Hg	10	0	5					17b. LiBr Solution (Note 10)													
6. Purge Tank Concentration %	56	52-55	51			13. Absorber Leak Detection fwd PSI/in Hg	10	0	5																		
7. Refrigerant Water Specific Gravity	1.01	1.00	0.99			14. Condenser Leak Detection aft PSI/inHg	10	0	5																		

