



**M/V Tamaroa**  
**B-2-E Auxiliary Qualification**

**A. Demonstrate ability to perform the following:**

(DATE)

- \_\_\_\_\_ 1. Line up, start, operate and secure reduction gear L/O, R/W pump and system
- \_\_\_\_\_ 2. Know normal parameters on reduction gear system gauges: R/W pressure, L/O pressure, L/O filter inlet pressure, L/O filter outlet pressure, and max. pressure differential
- \_\_\_\_\_ 3. Demonstrate normal system operation and bypass operation on the following R/G systems: L/O filter, L/O cooler R/W, L/O cooler L/O
- \_\_\_\_\_ 4. Line-up stern tube cooling and know the following: normal operating pressure, proper drip ratio, stern-tube packing adjustment, and show how to shift to emergency cooling.
- \_\_\_\_\_ 5. Maintain R/G lube oil at required levels
- \_\_\_\_\_ 6. Maintain R/G log sheet
- \_\_\_\_\_ 7. Line-up stand-by lube oil transfer pump to perform the following: fill reduction gear, fill main diesel engines, transfer oil to main deck connections
- \_\_\_\_\_ 8. Know location of lube oil service valve for C-302-L/O
- \_\_\_\_\_ 9. Know basic function of line shaft bearings, oil rings bearing, sump, L/O level and grade
- \_\_\_\_\_ 10. Know corrective action to be taken for line shaft bearings: sticking rings and improper oil level
- \_\_\_\_\_ 11. Line up, start and operate the following pumps: #1 & #2 fire pumps; adjust packing and regulate pressure, flushing pump, bilge pump

- \_\_\_\_\_ 12. Demonstrate proper procedure for using fire pumps for emergency bilge suction
- \_\_\_\_\_ 13. Know which fire pumps normal suction draws from which sea chest
- \_\_\_\_\_ 14. Know location of breaker and controllers for hydro-pack in the event of a major hydraulic leak in B-2-E
- \_\_\_\_\_ 15. Explain the function of the oily water separator; which valves operate in which mode of operation. Demonstrate ability to line up and operate OWS for pumping any bilge or C-301-DOT.
- \_\_\_\_\_ 16. Know locations of breakers and controllers for S/S air compressors in the event of a major LP air leak; frequency to drain receiver, proper L/O levels, corrective action to be taken if quality or quantity of L/O is incorrect.
- \_\_\_\_\_ 17. Damage control: Know egress routes from shaft alley, B-2-E
- \_\_\_\_\_ 18. Become familiar with EEBD and proper safety precautions and donning procedures
- \_\_\_\_\_ 19. Know location of emergency plugging and patching kit
- \_\_\_\_\_ 20. Know the primary and secondary fire boundaries for B-2-E
- \_\_\_\_\_ 21. Know location of hose reel and fixed CO2 bottles and how to energize the CO2 system for B-2-E

**B. Make a Single Line Drawing of the Following Systems:**

(DATE)

- \_\_\_\_\_ 1. Ship's service diesel generators fuel system
- \_\_\_\_\_ 2. Reduction gear lube oil/raw water system, including supply and return from all bearings
- \_\_\_\_\_ 3. Lube oil transfer system
- \_\_\_\_\_ 4. R/W cooling system to ship's service diesel generators and emergency cooling to same, reduction gear and stern tube
- \_\_\_\_\_ 5. Oily water separator, including all valves, pump and monitor

**C. Demonstrate Proficiency in Performing the Following Casualty Control:**

(DATE)

- \_\_\_\_\_ 1. MOB-E-005-SF Major F/O leak
- \_\_\_\_\_ 2. MOB-E-007-SF Unusual noise or vibration in reduction gear or shaft
- \_\_\_\_\_ 3. MOB-E-008-SF Hot bearing reduction gear
- \_\_\_\_\_ 4. MOB-E-009-SF Loss of L/O pressure R/G or MPM
- \_\_\_\_\_ 5. MOB-E-010-SF Major L/O leak SSDG or R/G
- \_\_\_\_\_ 6. MOB-E-011-SF Class Charlie fire in switchboard
- \_\_\_\_\_ 7. MOB-E-012-SF Class Charlie fire in SSDG
- \_\_\_\_\_ 8. MOB-E-013-SF Lock and unlock shaft
- \_\_\_\_\_ 9. MOB-E-201-SF Crankcase explosion SSDG
- \_\_\_\_\_ 10. MOB-E-203-SF Unusual noise or vibration in SSDG
- \_\_\_\_\_ 11. MOB-E-205-SF Loss of L/O pressure SSDG
- \_\_\_\_\_ 12. MOB-E-207-SF Loss of F/O pressure SSDG
- \_\_\_\_\_ 13. MOB-E-209-SF Governor failure SSDG
- \_\_\_\_\_ 14. MOB-E-212-SF Overload on SSDG
- \_\_\_\_\_ 15. CG-29-E High oil level main R/G
- \_\_\_\_\_ 16. CG-30-E High L/O pump discharge pressure
- \_\_\_\_\_ 17. CG-43-E(a) Cutting out of MPM/MPG in an emergency
- \_\_\_\_\_ 18. CG-65-E(a) F/O system casualty
- \_\_\_\_\_ 19. EEORD #26 Main space fire doctrine
- \_\_\_\_\_ 20. Appendix B Tagout procedure for SSDg
- \_\_\_\_\_ 21. Appendix D Tagout procedure for R/G

Note: The previous is based off the historical 1993 version of the *Tamaroa's* "B-2-E Auxiliary Qualification" supplied by John Hulslander This is a working document and items may be added or modified as circumstances and equipment dictate.