



# SYSTEM SAFETY VERIFICATION HIGH VOLTAGE SHORE CONNECTION (HVSC)\*

\*Also known as Alternative Maritime Power (AMP)



## CONSTRUCTION AND MAINTENANCE DIVISION

|  |                                 |                                 |                                  |                                 |                                   |                                 |                                 |
|--|---------------------------------|---------------------------------|----------------------------------|---------------------------------|-----------------------------------|---------------------------------|---------------------------------|
| NAME OF SHIP   | DATE (mm/dd/yy):                |                                 |                                  |                                 |                                   |                                 |                                 |
| SHIP IMO No.   | SUN<br><input type="checkbox"/> | MON<br><input type="checkbox"/> | TUES<br><input type="checkbox"/> | WED<br><input type="checkbox"/> | THURS<br><input type="checkbox"/> | FRI<br><input type="checkbox"/> | SAT<br><input type="checkbox"/> |
| TERMINAL   | BERTH                           |                                 |                                  |                                 |                                   |                                 |                                 |
| <input type="checkbox"/> 11 KV <input type="checkbox"/> 6.6 KV | HVSC SHORE BOX/VAULT            |                                 |                                  |                                 |                                   |                                 |                                 |

**HVSC SYSTEM SAFETY VERIFICATION INSTRUCTIONS:** This form must be completed in addition to the Power Transfer Conference Form. The system safety verification procedure must be completed for all IEC/ISO/IEEE 80005-1 compliant ships that have not previously successfully transferred to and from high voltage shore power or have not successfully transferred to and from high voltage shore power within the last 12-months ("No" answer to question #3 on the Power Transfer Conference Form). Time for connection will be tracked via the Power Conference Form. The Ship Person in Charge (PIC) and the Port of Los Angeles (POLA) PIC must initial each item as being discussed. In the comments area, describe any item(s) needing action, clarification, or further documentation. The original completed form must be submitted to POLA Division 147 by the end of the POLA PIC's shift, with a copy of the form being provided to the Ship PIC.

**NOTE:** Ships that are not compliant with IEC/ISO/IEEE 80005-1 standards (except those previously accepted by POLA for AMP barge connections) shall not be connected to shore side power.

| ITEM  | INITIALS |          | ITEM   | INITIALS |          |
|---|----------|----------|--|----------|----------|
|   | Ship PIC | POLA PIC |  | Ship PIC | POLA PIC |
| 1. Ship HVSC designed/ built in compliance with IEC/ISO/IEEE 80005-1, or previously accepted for use with POLA AMP barge.<br><input type="checkbox"/> Yes <input type="checkbox"/> No (If no, ship cannot connect to POLA HVSC system.) |          |          | 6. Visually verified equipotential bond monitoring: no signs of rust or wear of ship plugs, all pins, receptacles, plugs or cables.  |          |          |
| 2. Reviewed insulation resistance measurement and voltage test of cables. (1)<br><input type="checkbox"/> Actual Testing <input type="checkbox"/> Testing documentation reviewed  |          |          | 7. Function tested interlocking system, via POLA HVSC connection procedure.  |          |          |
| 3. Performed visual inspection of HVSC system in general.   |          |          | 8. Verified function of cable management system, via POLA HVSC connection procedure. (2)   |          |          |
| 4. Performed visual inspection of earthing resistance (shore only).   |          |          | 9. Integration testing to demonstrate that shore and shipside installations work properly together, including protection devices and control equipment.<br><input type="checkbox"/> All individual emergency push buttons (e-stop) on ship tested.<br><input type="checkbox"/> All individual emergency push buttons (e-stop) on shore tested. |          |          |
| Comments:   |          |          |  |          |          |

\*\* Based upon IEC/ISO/IEEE 80005-1 Section 10.4.2

(1) Only required for initial shore or ship commissioning or in excess of 30-month period from last successful transfer to high voltage shore power.

(2) If system trips, check adjustment of cable tension management system.

SHIP PIC/TITLE (print)

SIGNATURE

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POLA PIC/PORT ELECTRICAL MECHANIC (print)

SIGNATURE

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