

CONSTRUCTION AND MAINTENANCE DIVISION

STANDARD OPERATING PROCEDURE

GENERAL HIGH VOLTAGE SHORE CONNECTION (HVSC)* DISCONNECTION

(DIVISION 147)

*Also known as Alterative Maritime Power (AMP)

Revision Date: 08/01/2016

Revision #: 6

Document #: Safety_ Electrical SOP HV-02

Page 1 of 3

	Notes and Clarifications:					
	 □ Minimum one QEW and one QP observer are required for the following tasks: □ 1- Racking the substation breaker in and out as needed. □ 2- Troubleshooting. 					
1.	 POLA AMP SAFETY CHECKS AT TERMINAL - POLA POLA Person In Charge (PIC) shall be QP (Qualified Person) and shall follow and complete SOP checklist for during disconnection process. POLA PIC shall identify hazard locations (i.e. areas being loaded/unloaded, vehicles, forklift working around the crew, lifting, etc.). POLA PIC verifies the location of: communication equipment (i.e. walkie-talkies, emergency phone numbers), e-stops, light source if needed, etc. POLA PIC verifies must have the proper PPE (i.e. hard hat, safety shoes and leather gloves). POLA PIC completes top of POLA HVSC Pre-Power Transfer Conference form (Pre-Power Transfer Conference is not required). 					
2.	SHIP TRANSFERS TO SHIP POWER- SHIP Ship opens shore breaker remotely, via the E-stop or other means.					
3.	 AMP SUBSTATION BREAKER DISENGAGEMENT TO DE-ENERGIZE - POLA □ Only after items 1 thru 2 have been completed, POLA PIC opens the main breaker and feeder HVL switch for shore vault used and visually verify all three blades are disengaged and removes Kirk key KC. □ POLA PIC inserts Kirk key KC in earth ground switch, close the earth ground switch, visually verify all three blades are engaged □ POLA PIC shall lock-out the earth ground switch and remove Kirk keys KA &KB. □ POLA PIC takes meter reading from main breaker and record on HVSC Pre-Power Transfer Conference form "for POLA use only" section. □ POLA PIC provides Kirk keys KA & KB to Ship PIC/designee. □ POLA PIC monitors ship cable disconnection to ensure use of appropriate procedures and avoid damage to equipment. 					
4.	DISCONNECTION VAULT ON DOCK - SHIP/SHIP DESIGNEE					

□ Only after items 1 thru 3 have been completed, Ship PIC/designee lock-out ground switch.
 □ Ship PIC/designee insert Kirk keys KA & KB, remove Kirk key safety interlock pins, remove

securing chains, and unplug cables from shore vault.



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□ Ship rolls cables up from shore vault onto ship (except when using barge or cruise terminal

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-----------------------	------------

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Document #: Safety_ Electrical SOP HV-02

Page 2 of 3

AMP mobile).	
☐ Ship PIC/designee secure vault.	
☐ Ship PIC/designee remove lock from ground s	ewitch
□ Ship Fic/designee remove lock from ground s	WILCH.
5. SUBSTATION AMP BREAKER SECURED – PC	DLA
☐ Only after items 1 thru 4 have been completed	d. POLA PIC remove lock from ground switch.
□ POLA PIC closes and secures substation.	<u> </u>
	r Transfer Conference form "for DOLA use only"
	r Transfer Conference form "for POLA use only"
section, including time of ship disconnection fi	•
 POLA PIC submits completed POLA HVSC P 	re-Power Transfer Conference form and SOP
checklist for HVSC disconnection to Division	147 by end of shift.
NAME OF SHIP	DATE (mm/dd/yy):
TERMINAL	BERTH
TERMINAL	BERTH
DOLA BIO (1.1)	CIONATURE
POLA PIC (print)	SIGNATURE
POLA QP (print)	SIGNATURE
POLA QP (philit)	SIGNATURE
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Page 3 of 3

REVISION HISTORY

REVISION #	DATE	SECTIONS AFFECTED
0	12/04/2013	All
1	12/19/2013	(1) Added requirement to complete checklist. (4) Ship lock-out made mandatory. Correction of typographical errors.
2	01/13/2014	All: Changed to bullet format.
3	01/27/2014	(3) Clarified need to monitor for equipment damage. (5) Added removal of POLA PIC lock as a step. All: Updated name of form.
4	03/04/2014	(1),(3), (4), and (5): Clarification regarding ability to change order of numbered items and ability to proceed with some tasks prior to arrival of complete crew.
5	07/03/14	(1) Equipment and PPE items updated specific to task. All: Reformatted into checklist format. Added Document # to header and changed approval signatures consistent with Electrical Safety Manual provisions.
6	08/01/2016	(1)Number of personal performing the task. Added notes and clarifications for the procedures.