

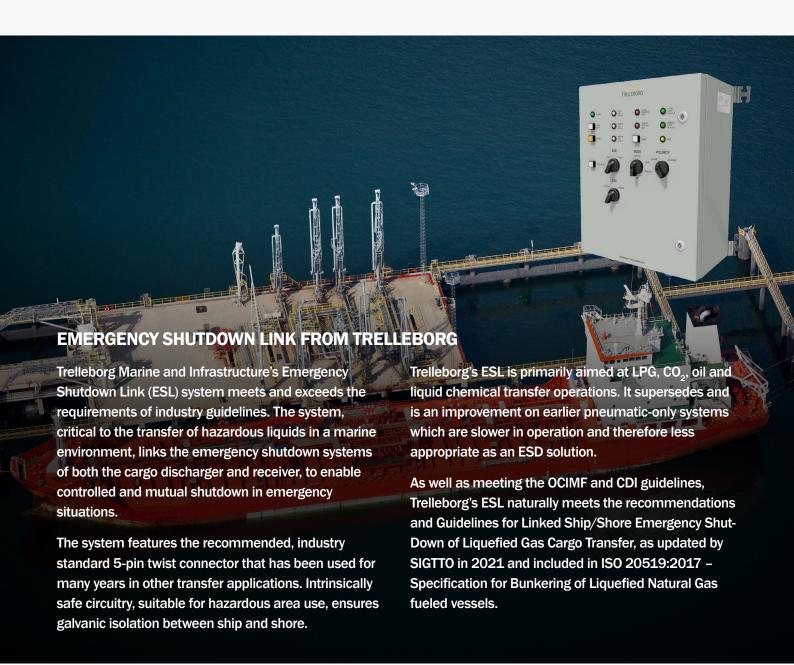
Emergency Shutdown Links



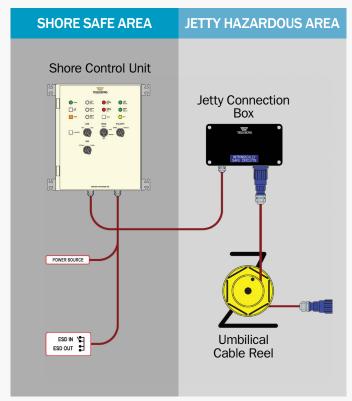
Emergency Shutdown Systems for energy transfer

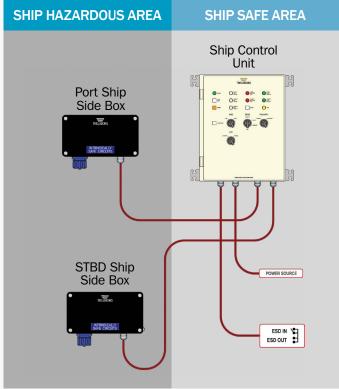
The transfer of hazardous liquids in a marine environment necessitates the use of linked Emergency Shutdown (ESD) systems. It is critical that, should an emergency arise during transfer operations, the process can be shut down in a safe and controlled way.

Guidelines to the oil and chemical transfer arena issued by OCIMF and CDI are now common practice and add to the previously existing IMO regulations covering LNG and LPG transfer. Shutdown systems on shore and ship must be interlinked so that they mutually shut down in case of emergency, with the ship and terminal ESD systems linked via an electrical umbilical using industry standard connectors.



TYPICAL SYSTEM CONFIGURATIONS FOR SHORE AND SHIP





FEATURES AND BENEFITS

- For ship-to-ship, ship-to-shore and shore-to-ship applications
- Used in LPG, CO₂, liquid chemical, oil transfer and some LNG fueling applications (back-up pneumatic also supplied)
- Suitable for use in SIL2 environment under IEC 61508
- | Ensures galvanic isolation between ship and shore

- | 'First up' indication for ESD location
- | Suitable for Ex ia IIB hazardous area applications
- Meets current SIGTTO guidelines for all liquid gas transfers
- Meets current OCIMF and CDI guidelines for oil and chemical transfers
- Meets ISO 20519:2017: Specification for Bunkering of Liquefied Natural Gas Fueled Vessels

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