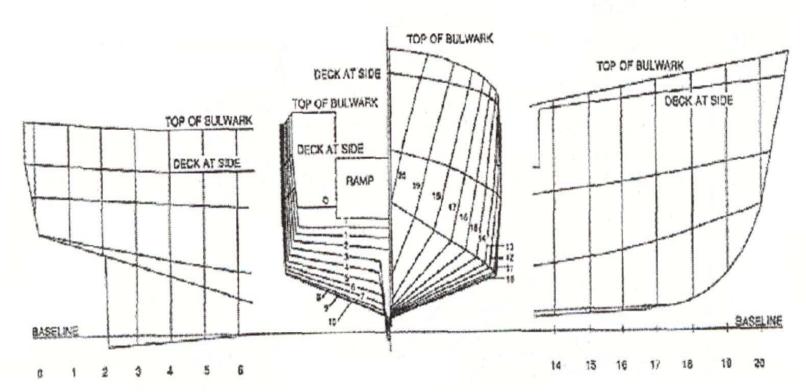
# VESSEL STABLITY



CG Enforcem ent (Penalty Phase to begin)

October 01, 2002: Stability Instructions

March 01,2003: Coaming Heights, Deadlight Covers, Piping

## D8 TACNOTE 02-01

## CFV Stability Enforcement

46 CFR PART 28.500, SUBPART E - Stability

46 CFR 28.530 Stability Instructions

46 CFR 28.560(b) Watertight and Weathertight Integrity

46 CFR 28.560(f) Portlights and Deadlights

46 CFR 28.580(h)(3) Efficient, Hinged, Inside Deadlights

33 CFR 155 420 Pum ping, Piping, and Discharge

### 46 CFR PART 28 500, SUBPART E - Stability

Each com m ercialfishing industry vesselwhich is 79 feet (24 M eters) orm ore in length that was constructed, underwentamajor conversion, or has been substantially altered on oraffer Septem ber 15, 1991 is required to meet the stability requirements of SUBPARTE.

### 46 CFR 28.530 Stability Instructions

### May include any of the following:

- Owners responsibility to select a qualified individual.
- Results and cabulations m ustbe maintained by the owner.
- Stability Booketwith sample calculations.
- M ustbe easily understood by the m asterorindividual in charge of the vessel.
- Provide bading constraints and operation restrictions.
- Simple bading diagram with instructions.
- Generalarangem entplans showing watertight compartments, cbsures, vents, and tanks.
- Tank and hold capacities, center of gravity, and free surface effects.
- General precautions to prevent unintentional flooding... etc.

#### OPERATING INSTRUCTIONS

- 1) Route: Operation on exposed waters is permitted. Since the vessel's route is based on other considerations in addition to stability, the Master is cautioned that the USCG may further limit the route.
- 2) Freeboard and Draft: A maximum mean draft of 11'-6'' above baseline is permitted. This corresponds to a displacement of 397.03 long tons in salt water.
- 3) All tons used in this booklet are long tons. 1 long ton = 2240 lbs.
- 4) The trim and list of the vessel shall be kept to a minimum at all times.
- 5) Weight changes: No fixed ballast or other such weights shall be added, removed, altered and/or relocated without authorization and supervision of the US Coast Guard or a Oualified Individual.
- 6) No watertight bulkheads shall be removed, added or altered without authorization and supervision of the US Coast Guard or a Oualified Individual.
- 7) Hull Openings: All Main Deck hatches, weathertight doors, and watertight doors to Deck House, Machinery spaces and Hold spaces shall be kept closed and fully secured at all times when the vessel is underway, except when actually used for transit under safe conditions.
- 8) Tank Usage: It is recommended that the following tanks be used in the burn sequence listed:

Fuel Oil Tanks:

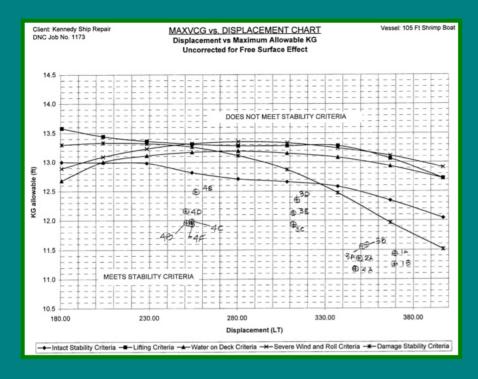
- First Burn : Fuel Oil No. 3 Port & Stbd • Second Burn : Fuel Oil No. 1 Port & Stbd
- Third Burn : Fuel Oil No. 2 Port & Stbd

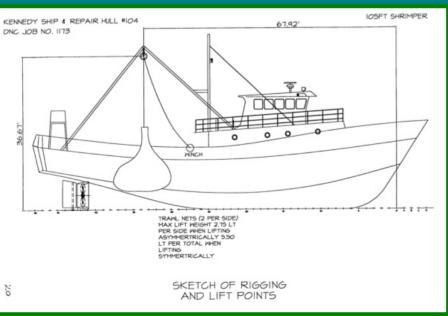
#### Fresh Water Tanks:

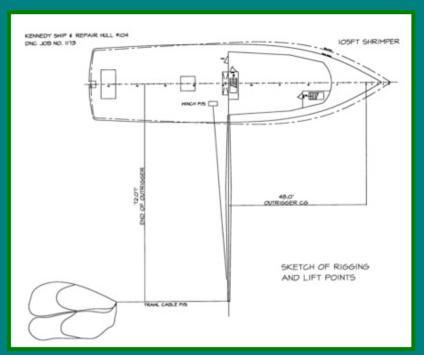
- First Burn : Fresh Water Peak
- Second Burn : Fresh Water No. 1 Port & Stbd
- Third Burn : Fresh Water No. 2 center

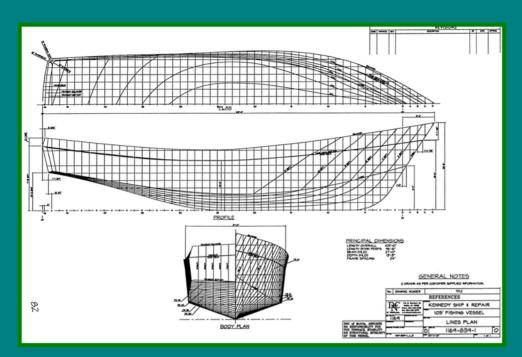
Tank pairs should be depleted to minimum content before proceeding to the next tank pair.

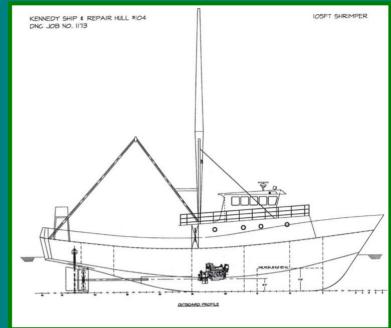
- 9) Tanks General: No more than one centerline or one port and starboard pair of the following tanks may be partially filled at any one time.
  - a) Fuel Oil Tanks
  - b) Fresh Water Tanks

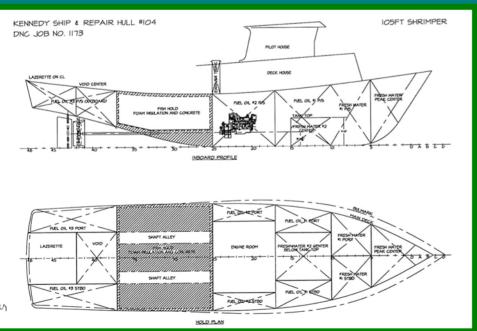


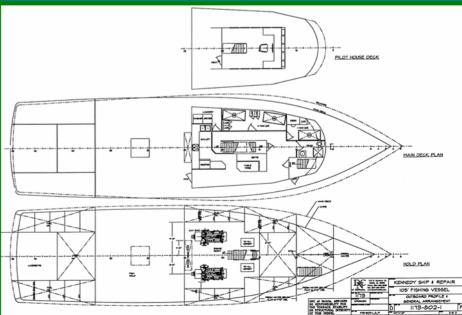












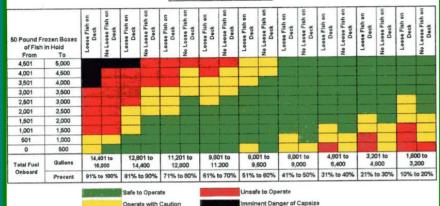
#### Stability Guidance by Color Coded Load Matrix Survey - John Womack - 01/20/02

#### Survey Load Matrix Type 1 - Basic Stern Trawler Processor

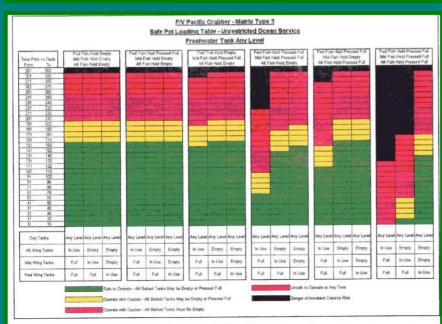
#### F/V 130 Foot Stern Trawler

#### Safe Loading Table - Unrestricted Ocean Service

Fresh Water Tank Any Level



Fuel Usage Procedure: Burn off the fuel tanks in the following order; 1) Forward Engine Room Port & Starboard Wing Tanks, 2) Mid Engine Room Port & Starboard Wing Tanks, 3) Fish Hold Port & Starboard Wing Tanks



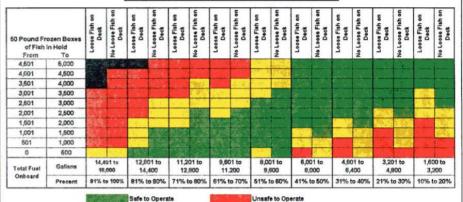
#### Load Matrix Type 3 Format

#### Survey Load Matrix Type 2B - Stern Trawler Processor with RSW Tanks

#### F/V 130 Foot Stern Trawler - Matrix Type 2B1

Safe Loading Table - Unrestricted Ocean Service

RSW Tanks Pressed Full - Fresh Water Tank Any Level



Fuel Usage Procedure: Burn off the fuel tanks in the following order; 1) Forward Engine Room Port & Starboard Wing Tanks, 2) Mild Engine Room Port & Starboard Wing Tanks, 3) Fish Hold Port & Starboard Wing Tanks

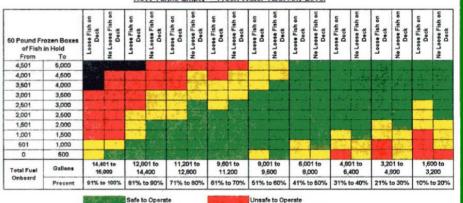
Operate with Caution

F/V 130 Foot Stern Trawler - Matrix Type 2B2
Safe Loading Table - Unrestricted Ocean Service

Imminent Danger of Capsize

Imminent Danger of Capsize

RSW Tanks Empty - Fresh Water Tank Any Level



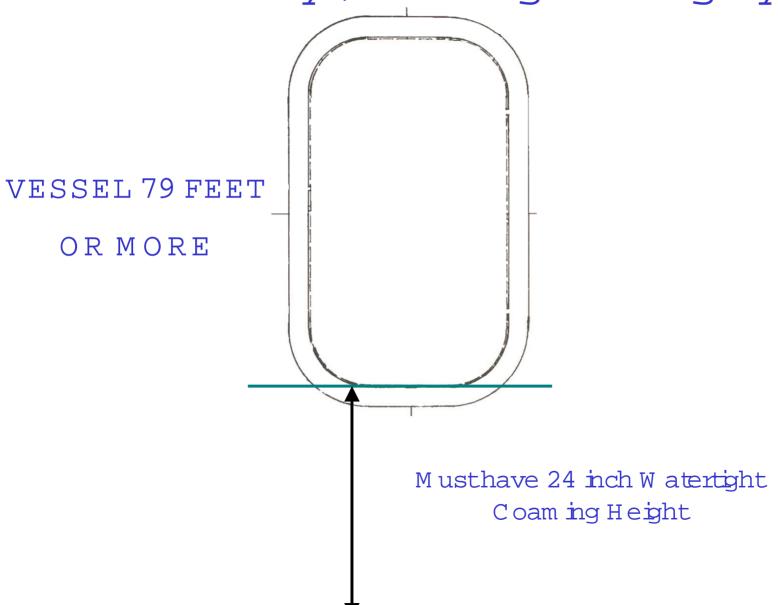
Fuel Usage Procedure: Burn off the fuel tanks in the following order; 1) Forward Engine Room Port & Starboard Wing Tanks, 2) Mid Engine Room Port & Starboard Wing Tanks, 3) Fish Hold Port & Starboard Wing Tanks

Operate with Caution

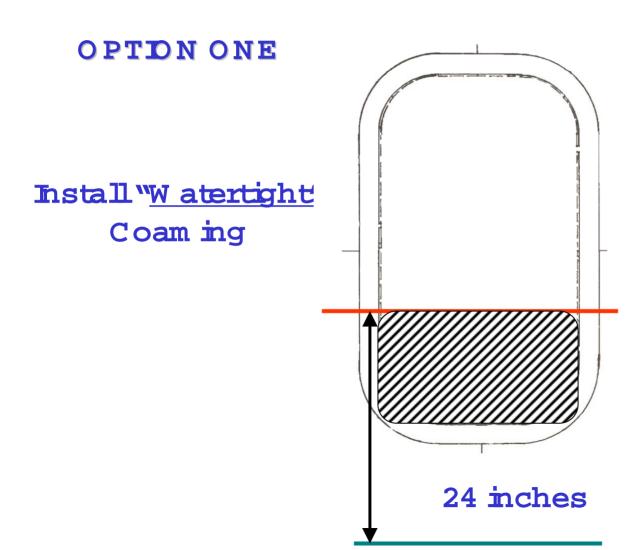
#### Single Matrixes - One Sheet each for RSW Tanks Empty and Full

Survey Matrix Type 2 Figures - Page 2 of 3

176a Stability / W atertight Integrity



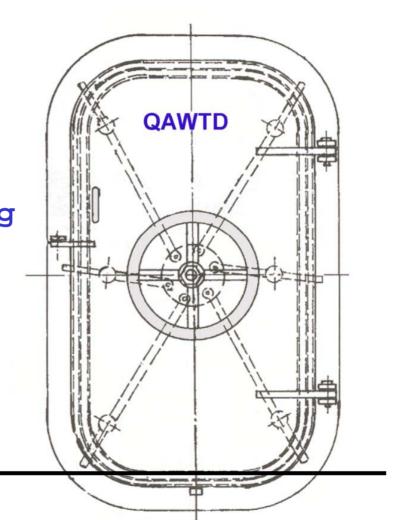
# 176a Stability / W atertight Integrity



# 176a Stability / W atertight Integrity

OPTION TWO

InstallA Quick-Acting
WatertightCbsure
Device

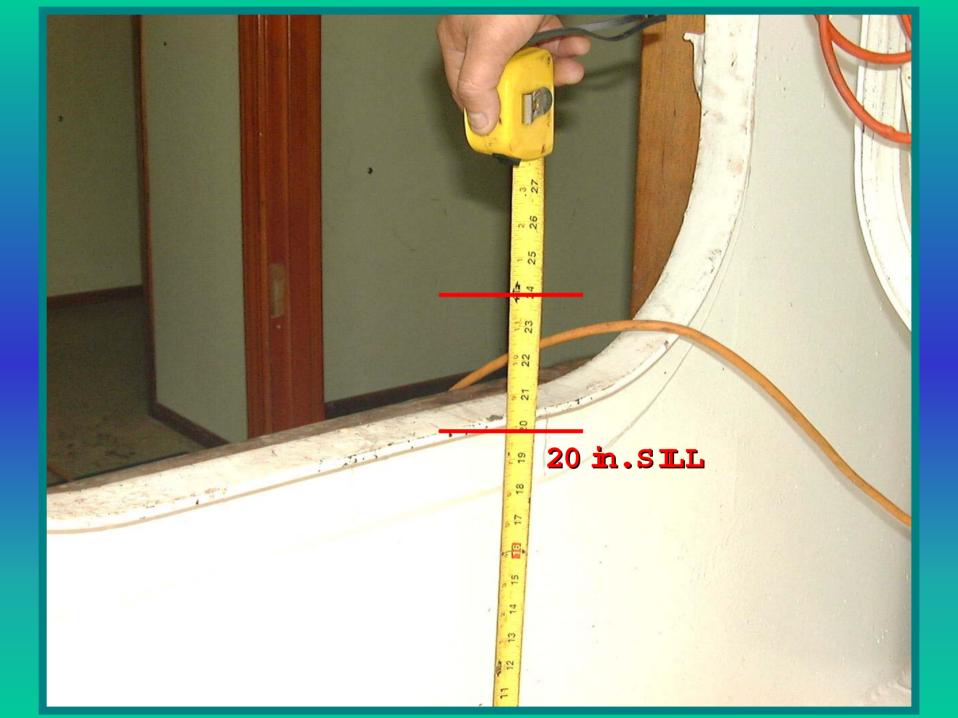




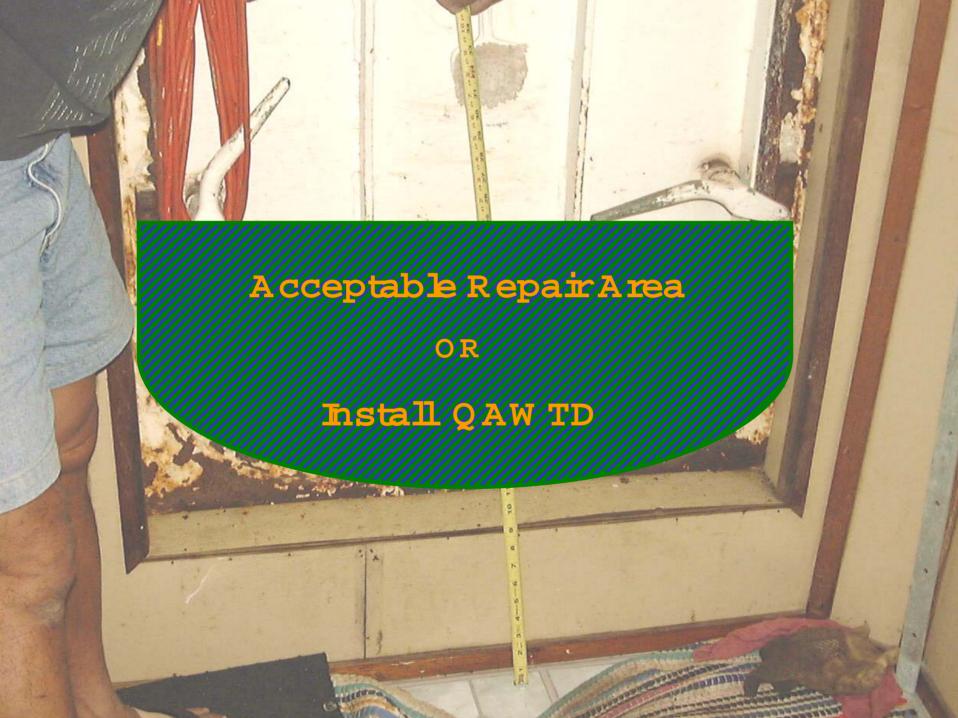














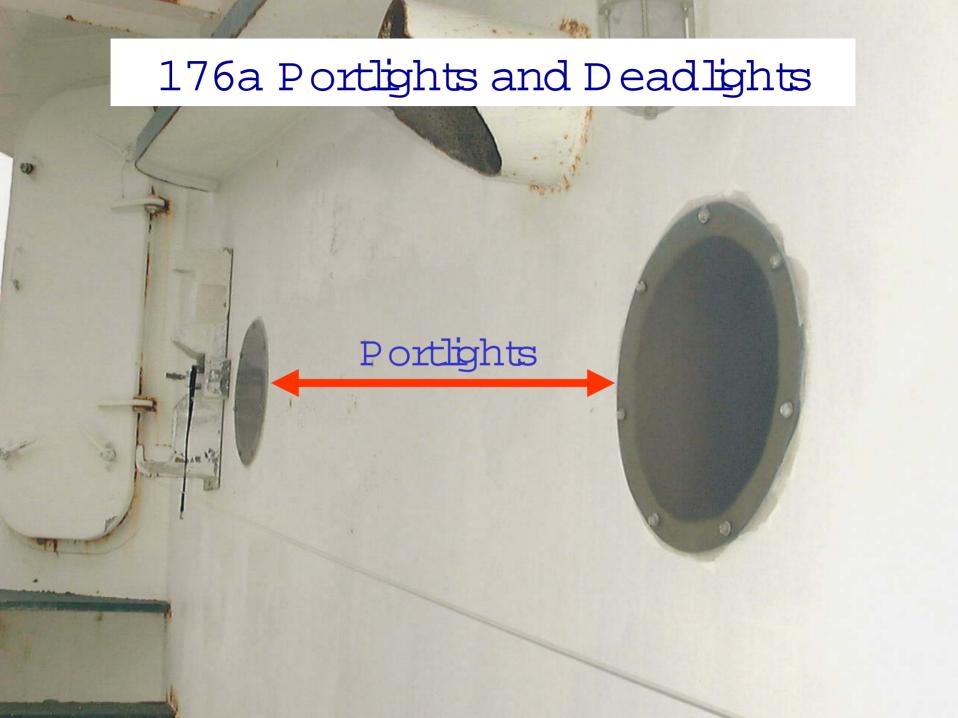




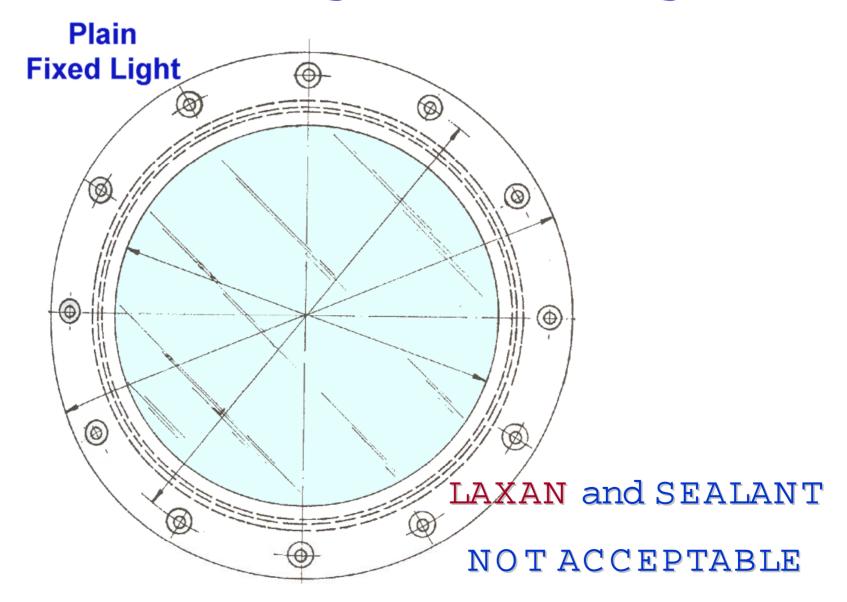








# 176a Portlights and Deadlights



# 176a Portlights and Deadlights



# 176a Portlights and Deadlights



DeadlightCovers

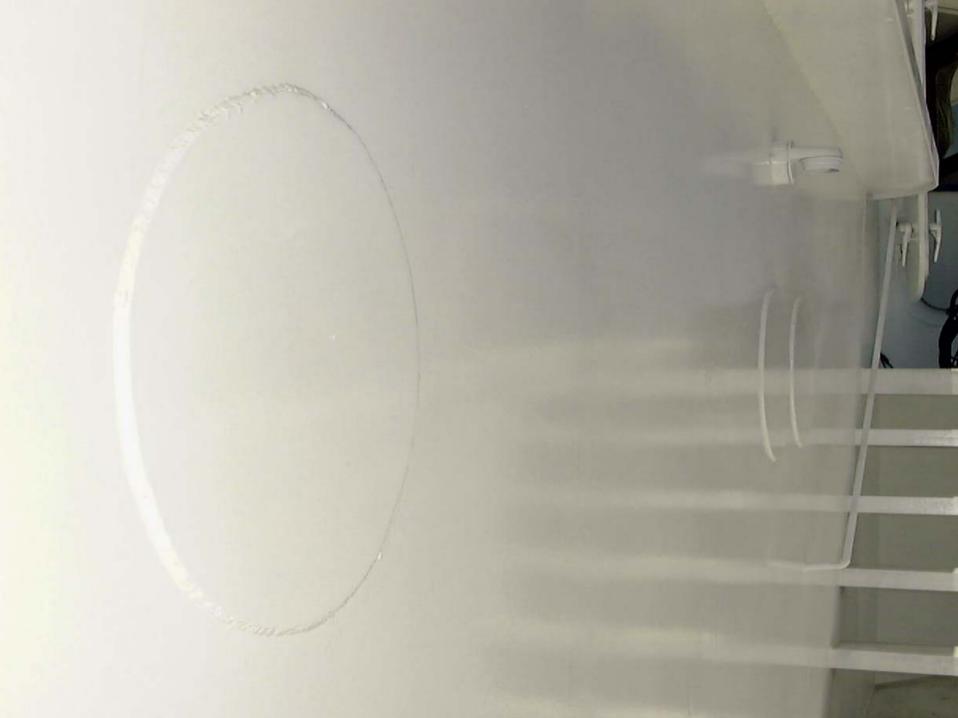












### D8 TACNOTE 02-01

# 33 CFR 155.420 Pum ping, Piping, and Discharge

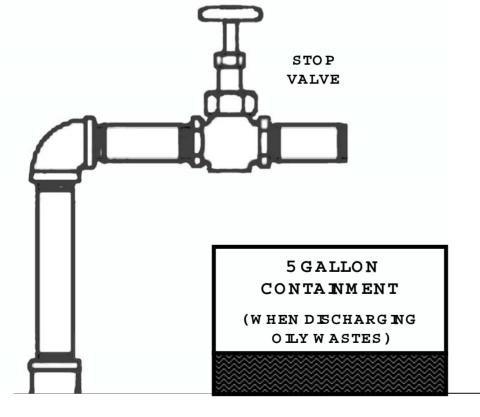
Com m excialfishing vessels 100 gross tons and greater (usually 65ftorm ore in length) that operate beyond territorial seas (3NM) m ust have a means to discharge oily waste through fixed deck piping.

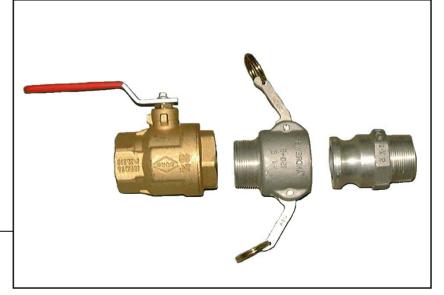
- Should have at least one outlet accessible from the weather deck.
- A m eans on the weatherdeck near the discharge outlet to stop each pum p used to discharge oily wastes.
- A stop valve installed for each outlet.

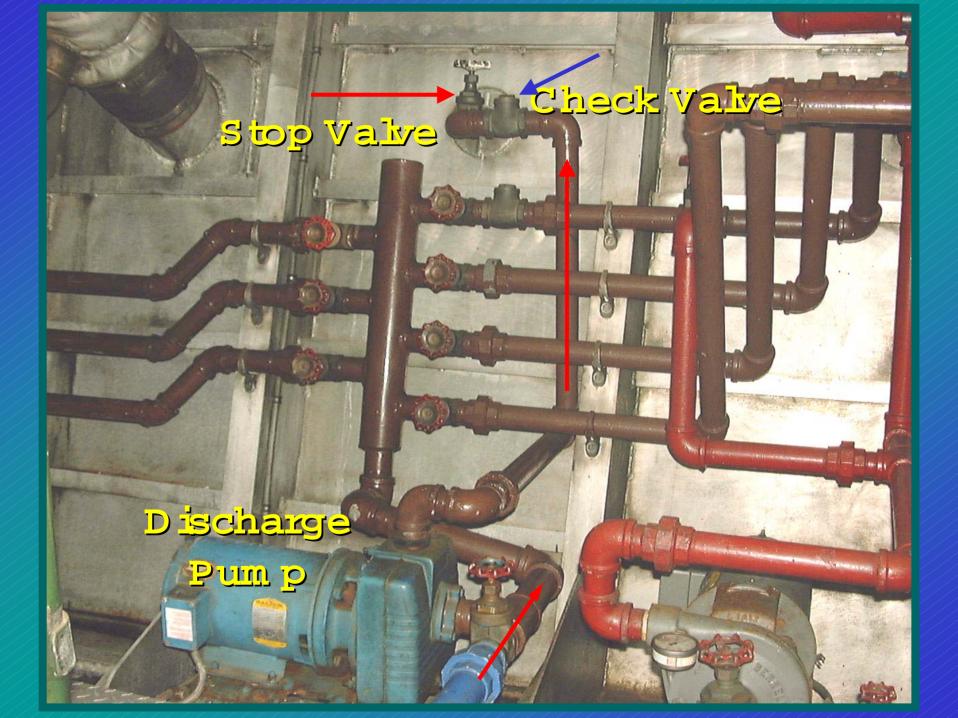
### 176a Pumping, Piping, and Discharge

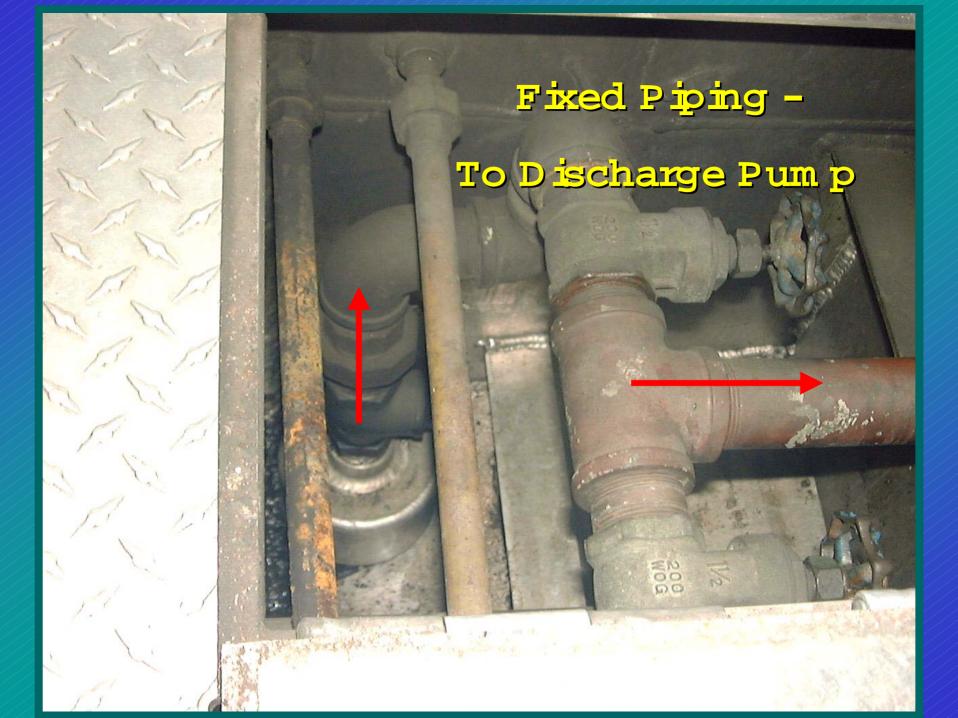
33 CFR 155.420

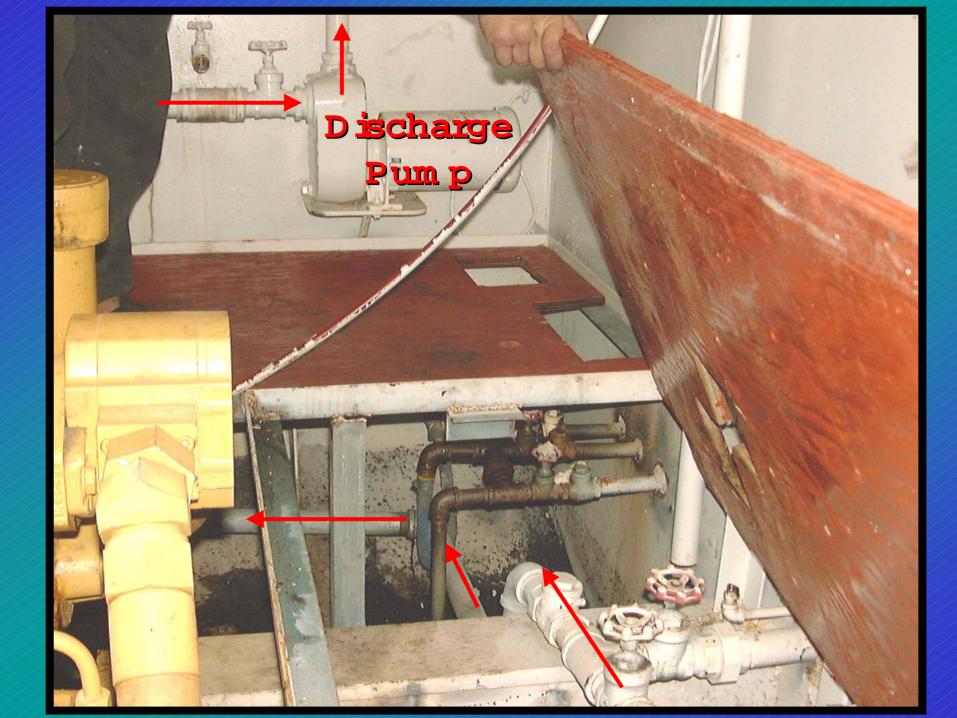


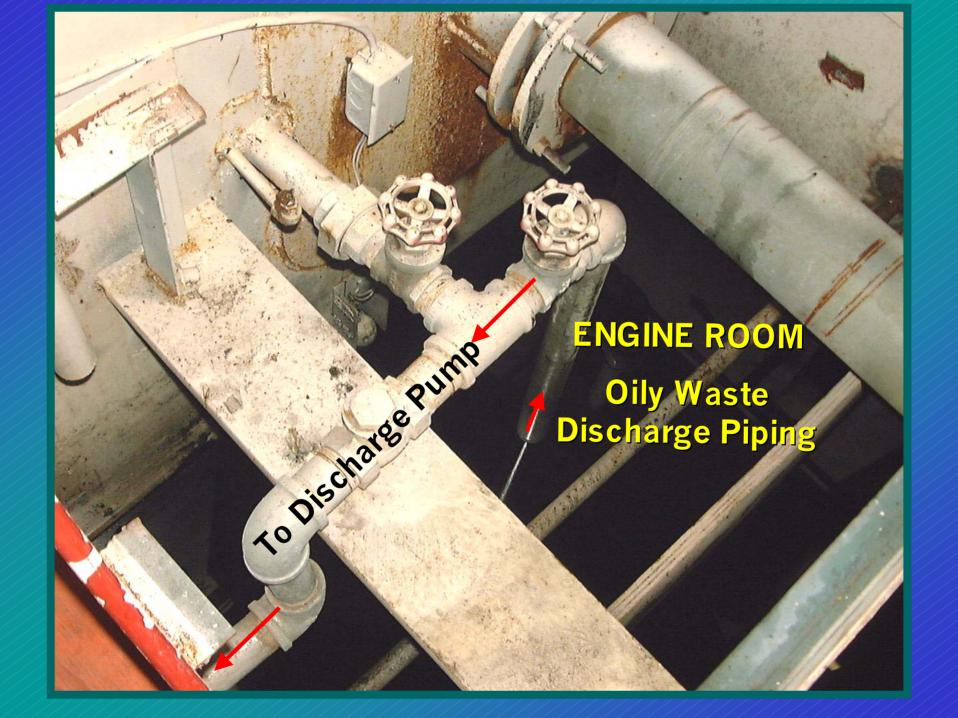




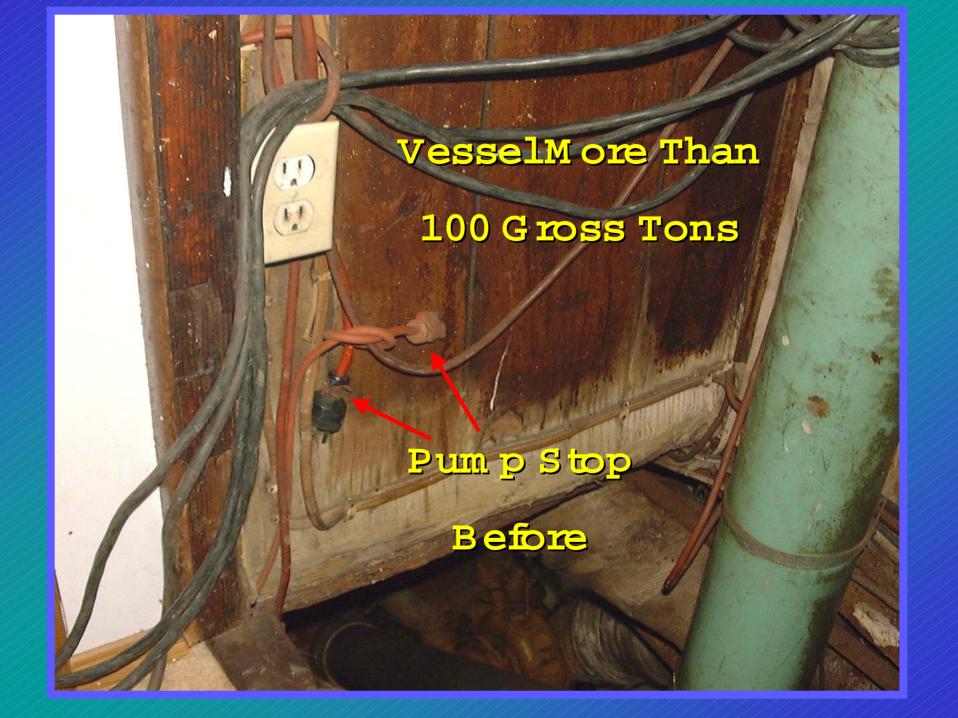




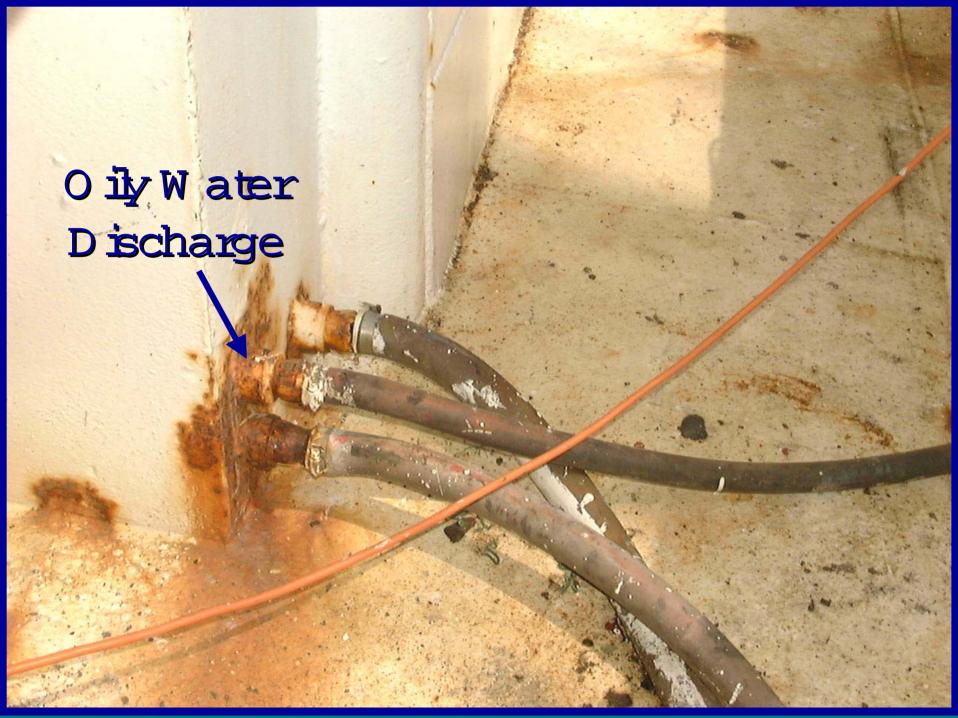
























## D8 TACNOTE

## ENFORCEMENT

The following enforcement policy is established for at-sea boardings:

- Check commercial fishing vessels over 79 feet that were built modified after 15 Sept 91 for Stability Instructions IAW refB.
- If the vesseldoes nothave this information, the vesselis issued a citation
- The boarding officerwill inform the master that he is in violation of the regulation and needs to become Stability Instruction compliant NLT October 01, 2002 and in compliance with additionalizems (coaming heights, dead lightcovers, piping) NLT March 1, 2003. If not compliant by these dates penalties will be assessed.

## ENFORCEMENT

Dockside exam iners will not issue CFVS decals to noncompliant vessels.

Penalty phase is scheduled to begin 0 ctober 1, 2002.

Until further notice, boarding officers and dockside exam iners will inspect the additional items in paragraph 6.

Boarding officers willdocum entdiscrepancies on form s 4100F/4100S: CIRCLE ITEM 176A ON THE 4100F and write a briefsum mary on 4100S.

## ENFORCEMENT

- Boarding officers and dockside examiners are to check commercial fishing vessels 79 ft and greater in length for:
- A 24 inch (0.61 m eter) coam ing height (sillheight) on each opening not equipped with a quick-acting watertight closure. (Note: a coam ing (sill) height to a fish hold that is under constant attention when the closure is not in place need only be 6 inches (0.30 m eters) in height).
- Inside deadlights for each window and portlight bcated below the zero one (01) deck (bridge deck) that is hinged and arranged so that it can be effectively closed watertight.

Lexan is not an acceptable alternative.