

OEM LOAD CHART AND
CRANE CERT NOT
VALID ON BARGE
(Shore Cert not valid)

**Barge
Mounted
Floating
Crane**



SPECIAL REQUIREMENT

BARGE MOUNTED CRANES (Pg 14)



1. The load rating recommended by the barge manufacturer for that particular barge or pontoon and reduced capacity load charts provided based on list and trim. (not to exceed 5 degrees)
2. **(1)New** load chart, **(2)list** and **(3)** trim indicators **(4)** new load test, **(5)** wind speed indicator **(6)** Tie down special requirements.
3. All deck surfaces shall be above the water
4. Cranes shall be blocked and secured to prevent shifting
5. All floating cranes/ derricks and crane barges shall be equipped with wind speed and direction indicating devices within clear view of the operator's station



WHAT CRANES/DERRICKS NEED A 3RD PARTY CERT?



1. CARGO TRANSFER
2. FLOATING CRANES
3. SHIP BUILDING
4. SHIP REPAIR
5. LONGSHORING OPERATIONS



**A CERTIFICATION OF THE
OPERATION AND LOAD
CAPACITY OF A CRANE
CONDUCTED BY AN **OSHA**
APPROVED CERTIFICATION
AGENCY.**



**DOES THE MOBILE CRANE ON
YOU JOBSITE REQUIRE A COPY
OF A 3RD PARTY CERTIFICATION
TO BE WITH THE CRANE?**



**Hint: This crane is not mounted on
a barge, or performing any type of
ship loading or long shoring operation.**

CONTRACTOR OWNED CRANES



**CONTRACTOR OWNED &
OPERATED CRANES USED IN
CARGO TRANSFER, **FLOATING
CRANES, BARGE MOUNTED MOBILE
CRANES** & LONGSHORING OPS.**



**THE 3RD PARTY CERTIFICATION
IS TO BE DONE BY AN OSHA
ACCREDITED AGENCY ACCORDING
TO OSHA REGULATIONS.**

WATERFRONT CONSTRUCTION



WHAT IS CONSIDERED WATERFRONT CONSTRUCTION?



FLOATING PLANTS: INCLUDES MARINE VESSELS USED TO TRANSPORT PERSONNEL, WORK BOATS, FLOATING CRANES & DERRICKS, BARGES, & PATROL BOATS.

**DREDGING OPERATIONS
WATERFRONT STRUCTURES
PIERS, WHARFS, QUAY WALLS
DOCKS INCLUDING ALL TYPES
OF FENDER SYSTEMS.
DIVING OPERATIONS**



FLOATING CRANES



Floating cranes, floating derricks, crane barges, auxiliary shipboard cranes and mobile cranes mounted on barges.

**Construction
CRANES...
NOT BIRDS!!!**



COE SECTION 16.F

FLOATING CRANES



Load Rating Charts
List Trim Indicators
Wind Speed Indicator
List and Trim Maximums

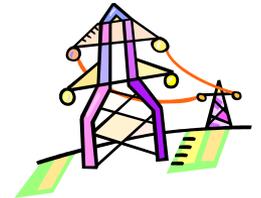
Certified by 3rd party

Must meet USCG safety requirements.



COE SECTION 16.F

**A MINIMUM OF 20 FEET OF
CLEARANCE IS REQUIRED FOR
FLOATING PLANT AND
ASSOCIATED EQUIPMENT FROM
OVERHEAD POWER
TRANSMISSION LINES (COE-11.E.07)**

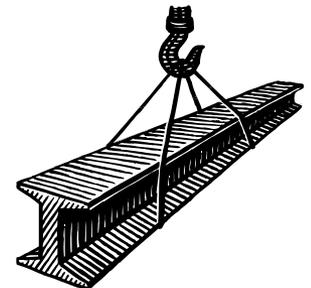
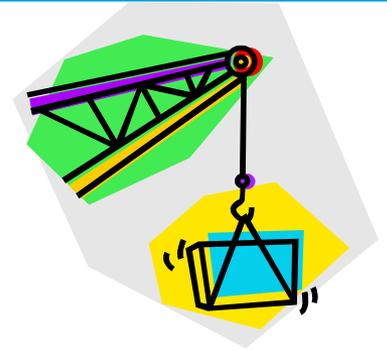


CRITICAL LIFT



Critical Lifts include:

- a. Lifts made when the load weight is 75% of the rated capacity of the crane
- b. Lifts that require the load to be lifted, swung, or placed out of the operators view of lifts made with more than one crane
- c. Lifts using more than one hoist
- d. Lifts made with more than one crane.
- e. Lifts involving non-routine or **technically difficult rigging arrangement** (See page 12)
- e. Lifts hoisting personnel with a crane or derrick
- f. Lifts involving hazardous materials



LIFESAVING & SAFETY SKIFFS



Minimum of 1 where work over or next to water

Trained personnel, practice launching and recovery before work starts

Minimum Equipment:

4 oars (2 if motor powered)

Oarlocks attached

One ball mounted boat hook

One Ring Buoy with 70 ft. line

PFD's for max number of people boat can carry.



I said "NO" Fishing at lunch time from the emergency skiff!!

PPE FOR WATERFRONT CONSTRUCTION



USCG Approved Work Vest

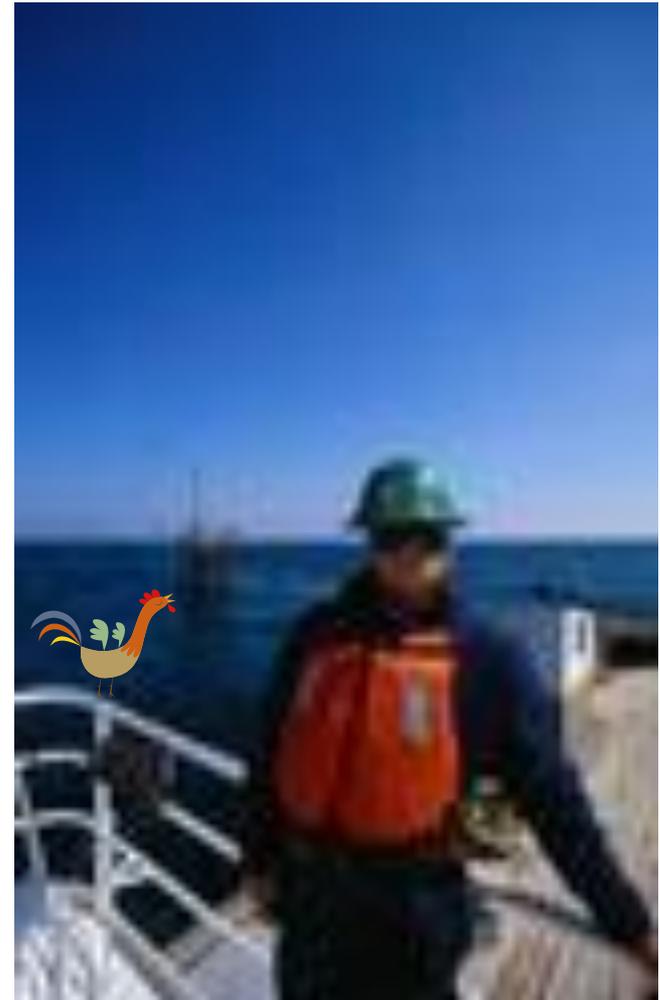
At all Waterfront Operation Locations
unless Guardrail, Safety Net, PFAS in use

Where ever there is a drowning hazard

International Orange with
Retroreflective tape.



COE 05.1



THROWABLE DEVICES



Required to have retroreflective tape

Rings to have lights on all USCG vessels

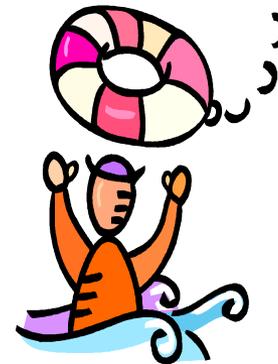
**One for every 3rd ring on floating plant
& shore installations**

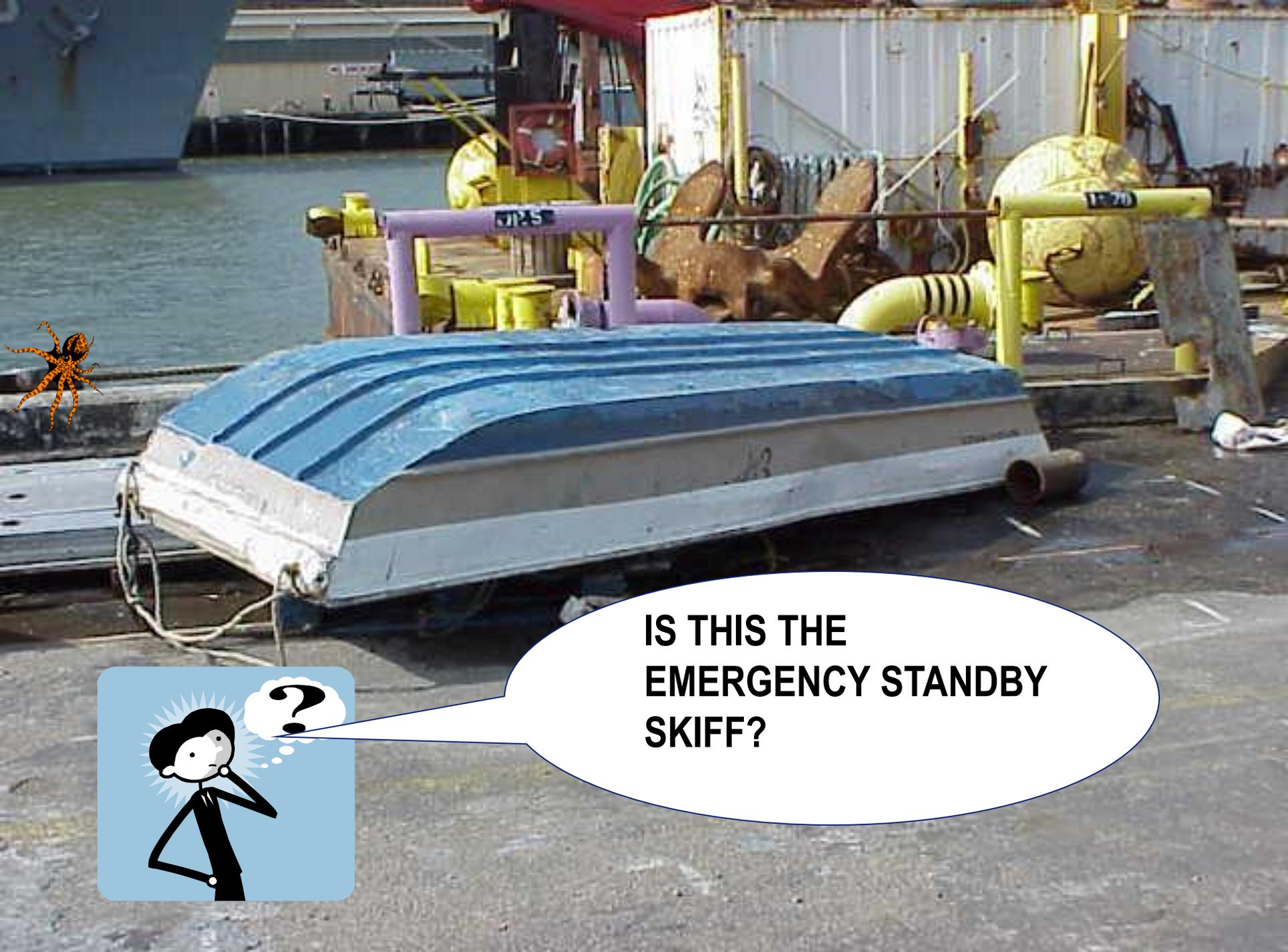
**At least 1 on every safety skiff & motor boats
up to 40 ft. in length**

200 ft. intervals apart maximum

**If structure higher than 45 ft. above water
level, minimum of 70 ft. of line to be attached**

COE Section 05 H & I





**IS THIS THE
EMERGENCY STANDBY
SKIFF?**



All floating plant that are regulated by the USCG shall have current inspections and certificates issued by the USCG, and a copy posted in a public area on the vessel. 19 A.01

DIVING OPERATIONS



SCUBA



SNORKELING

SURFACE SUPPLIED AIR



DIVING OPERATIONS



COMMON SAFETY RULES



USE DIVING METHOD TO DO WORK ONLY IF ANOTHER METHOD CANNOT BE USED THAT IS SAFER AND EFFICIENT

Example: Remote control TV instead of divers

ALL CONTRACT DIVING TO BE ACCORDING TO COE MANUAL SECTION 30 UNLESS WRITTEN VARIANCE GRANTED BY COE

DIVERS REQUIRE A MEDICAL EXAMINATION EVERY 12 MONTHS

SURFACE SUPPLIED AIR USE OVER OTHER METHODS WHENEVER POSSIBLE.



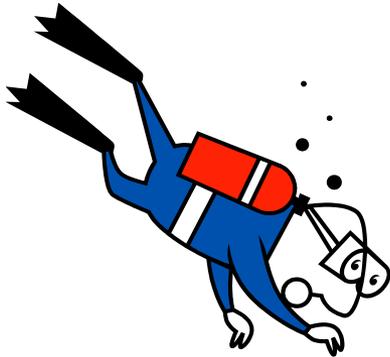
DIVING OPERATIONS



ALL DIVE TEAM MEMBERS REQUIRED SPECIFIC TRAINING

ALL DIVE TEAM MEMBERS CPR/FIRST AID AND USE OF EMERGENCY OXYGEN SYSTEMS QUALIFIED

CONTRACTOR TO PROVIDE SUBMITTALS IN ACCORDING TO COE SECTION 30.A.14 FOR ALL DIVE OPERATIONS



DIVING OPERATIONS



MINIMUM CONTRACTOR SUBMITTALS FOR DIVING OPERATIONS

Contractors Safe Practices Manual (30.A.16)

Dive Operations Plan (s) (30.A.19)

AHA (30.A.18)

Emergency Management Plan (30.A.19)

Dive Personnel Qualifications (30.A. 06, 07, 08)



**NO DIVING OPERATIONS TO BEGIN UNTIL SUBMITTALS
ARE ACCEPTED**



DIVING OPERATIONS



The **DISTRICT DIVING COORDINATOR (DDC)** and the **Safety & Health Diving Safety Rep.** are the **only** authorized reviewer of submittals required before diving operations can begin.



I said the DDC
DISTRICT
DIVING
COORDINATOR!



30.A.05 & Appendix "Q"



Is this a
dive team?



WATERFRONT OPERATIONS



THE FOLLOWING SLIDES ARE PHOTOS OF VARIOUS CONTRACTOR'S WORKING AT SOME WATERFRONT LOCATIONS











53









JUNBOYS





PAPCO

DIESEL

DIESEL *SAFETY*













COMMERCIAL DIVING FLAG "ALPHA"

NAVFAC MIDLANT

DANGER

**HARD HAT
AREA**

ERSON SIGNMARK DIV. CATALOG NO. 22054

1 800 333 3333





Emergency repairs to broken cylinder pile lead batter system



Method used to position workers: Crane supported platform (work float) does not meet requirements for personnel platform. No critical lift submitted as required.

Welder on suspended float without fall protection. Referred to pertinent EM 385 sections with contractor. (21.G.01 - 21.G.11 & 22.F)



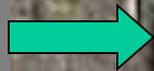
SITE SAFETY MANAGER DUTIES



Designated site safety manager required by contract was aware of the unsafe condition and allowed the work to proceed. Site Safety manager is required to ensure safe work practices. Contract requirement not met.

Recommend follow up with contractor (upper level away from the site) to go over our expectations for the site safety manager we are paying for. Requested that site safety manager address crane weight handling capacity relative to floating work platform list angle. The amount of list or tilt in floating support platform has an effect on the angle of the crane and potentially reduces capacity. Want to address quantifying that reduced capacity amount.

**Hole drilled for
POL pipe
hanger
support
through pier
deck.**



Location of
electrical lines
entry into
vault





Cables viewed inside vault from outside vault cover topside.

DRILL BIT AFTER INCIDENT





FINAL QUESTION

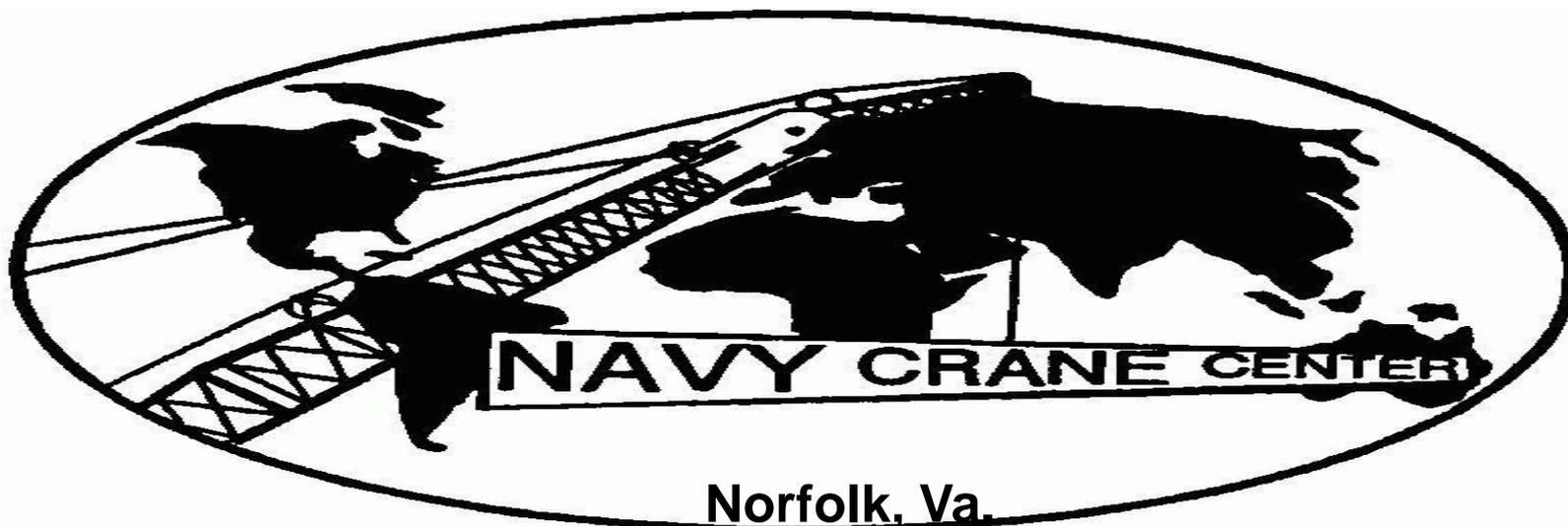


What special requirements are necessary for this crane? (Other than the normal mobile crane)

HINT: See page 14



NAVY CRANE CENTER



<http://portal.navfac.navy.mil/ncc>

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