

SAFETY INSPECTION EM 385-1-1 Section 19 – Floating Plant and Marine Activities U.S. Army Corps of Engineers (v1 UPDATED 2019)	Date of Inspection:
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Workplace	Activity/Process
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Type of Equipment/Equipment Number (if applicable)	Inspected by (Signature)
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Safety and Health Requirements	Ref	Yes	No	N/A	Remarks (Any NO or N/A items)
1. All floating plants regulated by USCG shall have required USCG documentation, including USCG 835.	19.A.01.a				
2. All floating plant regulated by the USCG shall have required USCG documentation that is current before being placed in service.	19.A.01.a				
3. All dredges and quarter boats not subject to USCG inspection and certification or not having a current ABS classification shall be inspected in the working mode annually by a marine surveyor accredited by the National Association of Marine Surveyors (NAMS) or the Society of Accredited Marine Surveyors (SAMS) and having at least 5 years experience in commercial marine plant and equipment.	19.A.01.b				
4. All other plant shall be inspected before being placed in use and at least annually by a qualified person.	19.A.01.b1				
5. Officers and crew shall be in possession of a current, valid USCG license.	19.A.02.a				
6. USCG Radar Observers endorsement on USCG licenses.	19.A.02.d				
7. Severe weather plan in place.	19.A.03.a				
8. A description of the types of severe weather hazards the plant may potentially be exposed to and the steps that will be taken to guard against the hazards;	19.A.03.a1				
9. River/tide gage readings at which floating plant must be moved away from dams, river structures, etc., to safe areas;	19.A.03.a5				
10. Emergency plan in place covers fire, sinking, flooding, severe weather, man overboard, hazardous material incidents, etc.	19.A.04.a				
11. A station bill, setting forth the special duties and the duty station of each crewmember for various emergencies, shall be prepared and posted in conspicuous locations throughout the vessel.	19.A.04.b				
12. Each crew member shall be given a written description of and shall become familiar with their emergency duties and the vessel's emergency signals.	19.A.04.c				
13. Drills are held at least monthly during each shift when people are quartered: Abandon ship; fire; overboard; rescue.	19.A.04.e				
14. The first set of drills shall be conducted within 24 hours of the vessel's occupancy or commencement of work.	19.A.04.e1				
15. Every fourth set of drills shall be at night.	19.A.04.e2				
16. Person overboard or rescue drills shall be held at least monthly at boat yards, locks, dams, and other locations where marine rescue equipment is required.	19.A.04.f				

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17. Emergency lighting and power systems are operated and inspected at least monthly.	19.A.04.g				
18. Internal combustion engine driven emergency generators shall be operated under load for at least 2 hours each month.	19.A.04.g1				
19. Storage batteries for emergency lighting and power systems shall be tested at least once every 2 months.	19.A.04.g2				
20. A record of all drills and emergency system checks shall be made in the station log.	19.A.04.h				
21. Escape hatches and emergency exits shall be marked on both sides with letters, at least 1 in (2.5 cm) high, stating "EMERGENCY EXIT - KEEP CLEAR."	19.A.05.j				
22. All 120-, 208-, and 240-volt systems in toilet / shower spaces, galley, machinery spaces, weather deck, exterior, or within 3 ft (0.9 m) of any sink shall be grounded and fitted with Ground Fault Circuit Interrupter (GFCI) protection.	19.A.05.m				
23. Ground-fault protected receptacles shall be conspicuously marked "GFCI PROTECTED".	19.A.05.m2				
24. All reciprocating, rotating and moving parts of winch gears and other equipment shall be properly guarded.	19.A.05.o				
25. Fuel and lubricant containers and tanks shall be diked, curbed or controlled by other means complying with USCG requirements to contain the tank contents in case of leakage in accordance with 46 CFR 98.30-15, and 33 CFR 155.320.	19.A.06.f				
26. All decks, overheads, and bulkheads, serving as fuel oil tank boundaries shall indicate the tank boundary with contrasting paint and be labeled "FUEL OIL TANK – NO HOT WORK".	19.A.06.h				
27. Obstructing cables/lines that cross waterways between floating plants and or mooring shall be clearly marked.	19.A.07.a				
28. On floating plant where people are quartered, one person shall be on watch at all times to guard against fire and provide watch person service OR automatic fire detecting and fire and emergency warning systems may be used.	19.A.07.b				
29. Provisions shall be made to prevent accumulation of fuel and grease on floors and decks and in bilges.	19.A.07.c				
30. Wading is permitted only when there are no severe underwater hazards such as sudden drop-offs, heavy surf above 3 ft (1 m), dangerous aquatic life, etc.	19.A.07.e				
31. Deck loading will be limited to safe capacity. Loads will be secured and loose equipment secured properly during rough weather.	19.A.07.h				
32. Safeguards in place to prevent equipment from falling into the water.	19.A.07.j				
33. Projection and tripping hazards shall be removed, identified with warning signs, or distinctly marked with safety yellow.	19.A.07.k				
34. When two or more pieces of floating plant are being used as one unit, they shall be securely fastened together to prevent openings between them or the openings shall be covered or guarded.	19.A.07.m				
35. Protection from falling into duck ponds and other openings when floating plants are configured for stationary work.	19.A.07.n				

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36. Anchor points shall be clearly identified and inspected prior to applying a load or putting cables under tension.	19.A.07.o				
37. Mechanical means such as securing pins shall be used to hold spuds safely in place before transiting from one site to another.	19.A.07.t				
38. All disposal area watchmen shall be certified in first aid and CPR and have at least one 16-unit first aid kit complying with ANSI Z308.1.	19.A.09.c				
39. Lighting of at least 5 foot-candles shall be provided at the disposal site.	19.A.09.e				
40. Disposal sites will have a shelter able to accommodate at least 4 workers in the event of inclement weather and environmental hazards. The shelter will have seating heating equipment, water cooler, and space to store hand tools and PPE.	19.A.09.f				
41. For launches, motorboats (survey boats), and skiffs having deck-mounted internal combustion engines (such as generators, jigger pumps) and not equipped with fans, exhaust piping shall be located away from personnel spaces to minimize CO infiltration in the work space.	19.A.10.f				
42. Non-slip surfaces shall be provided on working decks, stair treads, ship ladders, platforms, catwalks, and walkways, particularly on the weather side of doorways opening on deck.	19.B.01.b				
43. Safe means for boarding or leaving a floating plant shall be provided and guarded to prevent persons from falling or slipping thereon. Walking on rip-rap should be avoided where practical.	19.B.02.a				
44. A stairway, ladder, ramp, gangway, personnel hoist or other safe means of access shall be provided at personnel points of access with breaks of 19 in (48.2 cm) or more in elevation.	19.B.02.b				
45. Secured at one end by at least one point on each side with lines or chains to prevent overturning.	19.B.02.d1				
46. If cargo or materials are stored on deck of barges, scows, floats, etc., the outboard edge shall not be used as a passageway unless at least 2 ft (0.6 m) of clearance is maintained.	19.B.03.0c				
47. Two means of escape shall be provided for normal work, assembly, sleeping, and messing areas on floating plants.	19.B.04.b				
48. Floating pipelines used as access ways shall be equipped with a walkway and handrail on at least one side.	19.B.05.a				
49. When walkways and handrails are not provided (i.e., the pipeline is not intended for access), the pipeline shall be barricaded at both ends to prevent access by any person.	19.B.05.d				
50. On decks or work surfaces 6 ft (1.8 m) or more above the main deck or 6 ft or more above adjacent vessel decks, docks, or other hard surfaces. Railings type A or B.	19.C.01				
51. Deck edge toe boards not less than 3.5 in (8.8 cm) high for Type A and 2 in (5 cm) high for Type B railings shall be provided when the railings are used for fall protection.	19.C.02				

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52. Personal fall protection systems meeting the requirements of Section 21.I may be used when railing systems are not installed.	19.C.03				
53. Railing systems and personal fall protection systems are not considered feasible on the main deck of vessels that perform duty cycle material loading and unloading operations from barges, scows or other vessels alongside.	19.C.04				
54. Main deck perimeter protection is required on all manned vessels, except where excluded in Section 19.D.05.	19.D.01				
55. Manned vessels over 26 ft (7.9 m) in length operating in unprotected or partially protected waters (as defined in 46 CFR) shall have Type B Railings provided around the deck edge, except where excluded in Section 19.D.05.	19.D.02				
56. Manned vessels over 26 ft (7.9 m) in length operating in rivers or protected waters shall have Type B or Type C Railings provided around the deck edge, except where excluded in Section 19.D.05.	19.D.03				
57. Deck perimeter rails may be omitted from deck work areas specifically intended for line handling, working over the side of the vessel, load handling operations and designated boarding areas.	19.D.05.a				
58. Deck Perimeter rails may be omitted from main deck areas where the overall walkway width is less than 2 ft (0.6 m) between deck structures/permanent equipment and the deck edge.	19.D.05.b				
59. When deck-edge perimeter protection is not present, standard operating procedures, AHAs, or other documents shall be developed to address the hazards involved. These documents shall be reviewed by all crew during initial orientation and at regular intervals afterward.	19.D.06				
60. For hand rail type definitions see (19.E)					
REMARKS:					