U.S. ARMY ENGINEERS, NEW ORLEANS DISTRICT SAFETY INSPECTION **Floating Plant and Marine Activities- Pipeline Dredge**	Date Correction:
Contractor or Office.	Contract or Activity:
Inspected By:	Site Inspector:

NOTE: SAFETY AND HEALTH REQUIREMENTS MANUAL (EM 385-1-1 (15 SEP 08) REFERENCES IN PARENTHESES.	Yes	No	N/A
1. Is a copy of the most recent inspection/certification (USCG or marine surveyor) posted in a public location and up-to-date? (19.A.01.a)			
2. Are records of all past inspections kept at the site? (19.A.01.d)			
3. Do all Officers & crew currently possess a valid USCG license? [If Government operated; are operators licensed or certified in accordance with ER 385-1-91?] (19.A.02.a)			
4. Is a required USCG Radar Observers endorsement listed on licenses for operators of Uninspected Towing vessels & Masters & Pilots on radar-equipped vessels 26 ft or more in length? [Endorsement must be issued from a USCG-approved training facility.] (19.A.02.d)			
5. Are all employees scheduled to work no more than 12 hours in a 24-hour period? (19.A.02.e)			
6. Are employees getting, at a minimum, 8-hours of uninterrupted sleep each day? [may be reduced to 6-hours for a period of no more than 2-days] (19.A.02.e(1)-(3))			
7. Are AHAs posted that address a plan of action for severe weather, storms, high winds, hurricanes, and floods? (19.A.03.a.(1-6))			
8. Are USCG approved PFD (Types I,II,II or V) worn by all personnel on deck during severe weather conditions? (19.A.03.d)			
9. Are a sufficient number of vessels with adequate size and horsepower, outfitted and equipped for towing service, available at all times to move both self- and non-self propelled plants against tides, current, and winds during severe weather? (19.A.03.e)			
10. Are plans posted and the crew trained to respond to marine emergencies, such as, fire, sinking, flooding, severe weather, man overboard, hazardous material incidents, failure within the hull, pump shell/pipe rupture, etc.? (19.A. 04)			
11. Were the first set of drills conducted within 24 hours of the vessel's occupancy or commencement of work? Were night drills conducted within 2-weeks of vessel's occupancy? (19.A.04.e.(1))			
12. Are emergency lighting and power systems operated and inspected at least monthly? (19.A.04.g.)			
13. Are internal combustion engine driven emergency generators operated under load for at least 2-hours each month? (19.A.04.g.(1))			
14. Are storage batteries for emergency lighting and power systems tested at least bi-monthly? (19.A.04.g.(2))			
15. Is a record for all drills & emergency system checks, including any deficiencies and corrective actions maintained in the ships station log? (19.A.04.h.)			
16. Are fenders provided to prevent damage, sparking and a safe work area free from pinch points for employees? (19.A.05.a.)			
17. Are Axes for emergency cutting sharp and provide in accessible positions on all towing vessels? (19.A.05.b.)			
18. Are signal devices provided and operational on all vessels? (19.A. 05.c.)			
19. Are all electric lights used on or around gasoline and oil barges explosion-proof or intrinsically safe? (19.A.05.e.)			
20. Are general alarm systems installed and maintained on vessels where passengers or crewman can be out of sight or hearing from other persons? (19.A.05.f.)			
21. Are smoke alarms located in all living quarters? (19.A.05.g.)			
22. Where internal combustion engines are used on floating plants; are marine quality listed CO monitors installed and maintained in all enclosed occupied spaces? (19.A.05.h.)			
23. Are all escape hatches and emergency exits marked on both sides with letters, at least 1 in. high stating, "**EMERGENCY EXIT – KEEP CLEAR**?" (19.a.05.J.)			
24. Are all 120, 208, and 240-volt systems in toilet/shower spaces, galley, machinery spaces, weather decks, exterior, and within 3 ft. of any sink grounded and fitted with GFCI protection? (19.A.05.m.)			
25. Are all reciprocating, rotating and moving parts of winch gears and other equipment guarded? (19.A.05.o.)			
26. Are fuel gauge glasses or try cocks installed on fuel tanks in compliance with 46 CFR 58.50-10? (19.A.06.a.)			
27. Is a shutoff valve installed at the fuel tank connection: and operational from outside the compartment in which the tanks are located, and outside the engine compartment, and outside the house bulkheads? (19.A.06.b.)			
28. Is a shutoff valve installed at the engine end of the fuel line on supply lines more than 6 ft.? (19.A.06.c.)			
29. Are all carburetors equipped with backfire traps or flame arrestors? (19.A.06.d.)			

30. Are all fuel and lubricant containers and tanks diked, curbed or controlled by other methods meeting USCG requirements to contain leaks and spills? (19.A.06.f.)			
31. Are all decks, overheads, and bulkheads serving as fuel oil tank boundaries marked with contrasting paint and labeled, "**FUEL OIL TANK – NO HOT WORK**?" (19.A.06.h.)			
32. Where people are quartered, are fire detection and fire and emergency warning systems, or a continual fire watch provided? (19.A.07.b.)			
33. When barriers or blanks are installed in piping systems as a lock-out procedure; are positive means used to easily recognize their presences? (19.A.07.f.)			
34. Are safeguards such as barriers, curbs, or other structures provided to prevent front-end loaders, bulldozers, trucks, backhoes, track hoes, and similar heavy equipment from falling into the water? (19.A.07.i.)			
35. When two or more floating plants are being used as one unit; are they securely fastened together and openings between them covered or guarded? (19.A.07.l.)			
36. Are provisions made to protect persons being transported by water from the elements? (19.A.07.o.)			
37. Are mechanical means such as securing pins being used to hold spuds safely in place during transiting from one site to another? (19.A.07.s.)			
38. Stumbling hazards painted yellow 19.A.07 (J)			
39. Deck openings protected 19.A.07 (H)			
40. Means provided to secure doors 19.A.05 (i)			
41. Hinged floor opening cover with guardrails. 19.A.07 (h)			
42. Navigation lights & Bilge Alarm in working order 05.I.07 19.A.05			
43. Proper ventilation. 19.A.10			
44. Inlet and outlet exhaust equipped with cowls or exhaust heads 19.A.10 (e)			
45. **Means of Access**			
a. Safe means of boarding 19.B.02 (a)			
b. Non-slip surfaces 19.B.01 (b)			
c. Accessways safe, clear, unobstructed, marked, and at least 20 inches wide 19.B.05 (b)			
d. Guardrails inflexible and 42 inches high (existing 36 to 44 inches high OK IAW OCE's 2 Feb 83 letter 21.B.01			
e. Fixed Ladders: (a) 7-inch toe space 21.D.08 (d) (b) Extend 42" above landing 21.D.02 (e) (c) Painted or otherwise treated to resist corrosion. App J, Para 2 (g) (i) (d) 4" clear space minimum from grab bar to nearest obstacle App J, Para 3 (e) (e) No more than 12" or less than 2 1/2" step across distance App J, Para 3 (g)			
f. All ladders secured top, bottom and at intermediate points. 21.D.08 (d)			
46**. General Safety Requirements**			
a. 16-Unit first aid kit (Type III) 03.B			
b. Type III or Type IV or better (USCG approved) work vests, International Orange 05.H.01			
c. Ring buoys with 70 feet of 3/8- inch rope attached 05.H.03 (d)			
d. Water lights 05.H.03 (a)			
e. Safety skiff w/4 oars (2 if motor powered) 05.I.01/04			
f. PFDs equaling the skiff rating for the maximum number of personnel allowed on board 05.I.04 (e)			
g. Rescue ladder 19.B.04			
h. Communications and transportation provided for injured workers 03.A.01			
i. 16-Unit first aid kit (Type III) 03.B			
47. **Fire Prevention and Protection**			

a.. Fire prevention plan implemented and emergency evacuation procedures posted 09.A.01			
b. Flammable storage area 09.B.12			
c. Unopened containers 09.B.16			
d. Smoking prohibited 09.A.07			
e. Source of ignition prohibited 09.B06			
f. Flammable liquids and grease and grease stored within 50' of combustibles 09.A.06			
g. Spills of flammable and combustible liquids cleaned up 14.C.10			
h. Proper ventilation 09.B.07			
i. Containers securely closed 09.B.04			
j. Flammable storage tanks and systems: 09.B.08 1. Electrically bonded and grounded 09.B.20 (b) 2. Storage prohibited in exit areas 09.B.14 3. Self-closing metal refuse can 09.B.17 4. Self-closing valve 09.B.20 (c)			
k. Fire extinguishers: provided where needed, inspected and maintained, distinctly marked and accessible 09.E.01			
l. Firefighting apparatus and equipment meets NFPA and USCG requirements 09.G.01			
m. Telephone number and instructed posted. 01.A.06 (b)			
n. Fire lanes free of obstruction 09.A.20			
o. *Heating System* and Devices- 1. Temporary heating devices approved by GDA 09.D.01 2. Heating devices and systems installed according to mfg instructions 09.D.03 3. Flue pipes secured and insulated 09.D.10			
p. Painting area ventilated 09.B.07			
q. Sources of ignition prohibited 09.B.02			
48. **Guarding** 16.B.03			
a. Inspected daily performed and Maintenance records available 16.A.08 (a) and 16.B.02 (a)			
b. Load hoisting equipment 22.E.08			
1. Operating manual available 16.K.04 2. Pre-Op/daily/monthly/quarterly inspections 16.K.05 3. Braking equipment 22.E.08 (d) 4. 3 full wraps of cable on drums 16.C.10 (b)			
c. Protection from physical contact 11.A.02			
49. **Electrical Safety**			
a. Switches, fuses, and automatic circuit breakers identified 11.A.09			
b. Grounds 11.C			
c. Circuits protected against overload 11.B.01			
d. Provisions made for locking out hazardous energy 12.A.06			
e. Circuits, semi-portable equipment, and work lights grounded according to NEC and NESC 11.C.01			
f. Wires for temporary wiring insulated from their supports. 11.D.05			
g. No exposed empty light sockets or broken bulbs I 1.D.06 (c)			
50. **Pressure Vessels**			
a. Pressure vessels inspected & tested: 1. Before being placed in service and after any repair or modification 20.A.01 (a) 2. Every 6 months (temporary & portable systems) 20.A.01 (b) 3. Annually (permanent installations) 20.A.01 (c)			
b. Tests conducted by ASME or NBBI qualified personnel 20.A.01 (d)			
c. Hydrostatic testing conducted: 1. When installed 20.A.02(a)(1) 2. When placed in service after lay-up 20.A.02(a)(2) 3. After repairs or modifications 20.A.02(a)(3) 4. Every 3 years 20.A.02(a)(4) 5. When rusted, deteriorated or conditions found during testing warrant hydrostatic testing 20.A.02(a)(5) &(6) (NOTE: Exempt vessels: max allowable pressure not exceeding 15 psi; vessels w/internal volume of 5 cf or less and maximum operating pressure not to exceeding 200º F; compression tanks containing water and fitted w/permanent air charging line subject to pressure not exceeding 15 psi and temp not exceeding 200º F and fire extinguishers. Vessels			

w/inspection doors need only be given hydrostatic tests when repaired, modified, or deteriorated. Deterioration tests must be conducted ev 2 yrs for external and ev 4 yrs for internal)			
e. Records of inspections & tests available for review. Certificate posted near pressure vessel control. 20.A.03			
f. Equipment and/or system found to be in unsafe operating condition tagged "**OUT OF SERVICE - DO NOT USE"** and the controls/circuits locked out to prevent use until corrected. 20.A.05 (NOTE: This includes equipment/systems without valid testing/certification)			
g. Operated and maintained by qualified, designated personnel 20.A.06			
h. Approved pressure gauge and safety relief valves. 20.A.12 & 13			
g. Safety valves installed, tested and maintained IAW ASME "Code for Unfired Pressure Vessels" 20.B.01 (b)			
h. Equipment located to provide safe access for operation, maintenance and repairs 20.B.02 (a)			
i. Hoses not laid over ladders, steps, scaffolds, or walkways 20.B.04			
j. If used for cleaning, less than 30 psi maintained and chip guarding and PPE used. 20.B.05 (b)			
k. Airlines in excess of 1/2 in equipped with safety device at the source of supply to reduce pressure in the event of hose failure 20.B.06			
l. Stops automatically before discharge pressure exceeds maximum working pressure 20.B.08			
m. Drain valve installed at lower point of receiver for removal of accumulated oil and water 20.B.18			
n. Certificate of inspection posted to validate certification 20.C.01/ 20.C.02 (a)			
o. Re-inspected after repair or relocation 20.C.02 (b)			
p. Fusible plugs 20.C.04			
q. Approved type water columns, gauge glass and try cocks. 20.C.05			
r. Gauge glass and water columns guarded 20.C.05 (a)			
s. Easy access to master valves and controls 20.A.11			
t. Color Coded IAW Mil-Std 101B 20.D.01			
u. Properly stored 20.D.03			
v. Smoking prohibited 20.D.04			
w. Protected from physical damage, electric current and extreme temps. 20.D.05			
x. Cylinder valves CLOSED when in storage, transit, not in use or empty 20.D.05			
y. Cylinder valve caps in place when cylinders are in storage, transit or whenever regulator is not in place 20.D.07			
z. Secured in upright position in substantial fixed or portable racks or hand trucks 20.D.08 & 20.D.10			
aa. Valve wrench or wheel in operating position when cylinder is in use. 20.D.11			
bb. Oxygen & fuel gas pressure regulators and related gauges in proper working order 20.D.19			
51. **Floating Plant General**			
a. Qualified employee assigned deck duties during overnight trips, when navigation conditions are hazardous, when handling of lines is required (except tying-in), when operating at night or during inclement weather or when towing 19.C.01			
b. Maximum capacity posted and PFD's for all personnel 19.C.02			
c. Fire extinguishers 19.C.03 (a)			
d. Float plan prepared for trips of 4 hrs of more (surveying, patrolling, or inspection) or when operator is traveling alone for any period of time. 19.C.04			
e. Operator training current 19.C.05			
f. Ventilating engine space 19.A.10			
g. Gasoline or liquid petroleum powered - Built in automatic C02 fire extinguisher system 19.C.03 (b)			
h. Emergency controls protected and easily accessible 19.A.05 (d)			
i. At least one life ring or ring buoy on boats up to 40 ft and two for boats 40 ft or longer 05.H.03 (d)			
j. Adequate and protected passenger space 19.C.02 (B)			
k. Submerged pipelines and anchors rest on channel bottom in navigation channels 19.D.03 (a)			
l. Buoyant and semi-buoyant pipeline fully submerged. 19.D.03 (a)(1)			
m. Pipelines marked and have USCG approved flashing yellow lights 19.D.03 (a)(2)			
n. Pipeline access walkways at least 20 inches wide, equipped with handrail on at least one side and PFD's used. 19.B.05			
o. Tool rest on grinders not more than 1/8 inch from wheel 13.B.05			
p. Defective tools removed from service 13.A.02 (c)			
q. Power tools inspected and maintained. 13.A.02 (b)			
r. Damaged chains, rope and defective slings removed from service 15.A.01 (b)			
s. Eye splices made up in approved manner. 15.A.04			
t. Running lines within 6'6" of working surface guarded or area restricted 15.A.03			

u. Wire rope removed from service or re-socketed if 2 or more wires broken or rust or corrosion adjacent to socket or end fitting 15.B.01			
v. Open hooks removed from service 15.F.07 (b)			
w. Floating plant equipped with fenders 19.A.05 (a)			
x. Signal devices on all vessels 19.A.05 (c)			
y. All waste collected and removed daily 14.D.04 (b)			
z. Adequate safe drinking water provided. Cool water provided in hot weather. 02.B.01			
aa. Adequate toilet facilities provided 02.C.01			
bb. Emergency cutting equipment provided and maintained on all towing vessels 19.A.05 (b)			
cc. Grab bars provided when railing not present (tugs, tenders and launches) 19.B.01 (c)			
52. **Personal Protective Equipment (PPE)**			
a. General (PPE Hazard Evaluation) 05.A			
b. Hand Protection 05.A.08			
c. Leg Protection 05.A.09			
d. Eye/Face Protection 05.B			
e. Ear Protection 05.C			
f. Head Protection 05.D			
g. Footwear 05.E			
h. High Visibility Apparel 05.F			
i. Respiratory Protection 05.G.			
j. Fall Arrest 05.H.			
k. Electrical Protective Equipment 05.I.			
l. Personal Floatation Devices Work vest (PFDs) 05.J.			
m. Lifesaving & Safety Skiffs 05.K.			

NOTE: SAFETY AND HEALTH REQUIREMENTS MANUAL (EM385-1-1) REFERENCES IN PARENTHESES.	Yes	No	N/A
d. Are all accident/illness exposure/experience records to include those of the prime contractor and all subcontractors? (must include exposure work hours and OSHA 300 log or equivalent) (01.D Accident Reporting and Recordkeeping)			
e. Are employee exposure monitoring and health hazard assessment records maintained? (01.D.05.a)			
10. Has a hazard communications program been implemented in writing? (06.B.01)			
a. Does the written hazard communication program address: (1) training? (2) labeling? (3) current inventory of hazardous materials on site? (4) location and use of Material Safety Data Sheets (MSDSs)? (06.B.01(c)			
b. When new hazardous substances are brought onto the job site, are all employees potentially exposed to the substance advised of the information in the MSDS for the substance? (01.B.06.b)			
c. Are copies of the MSDSs maintained in the inventory and available to all potentially exposed employees? (06.B.01(d)			
d. Is a site map (showing the storage location of all inventoried hazardous substances) attached to the inventory for emergency response purposes? (06.B.01(a)(3))			
11. Is the safety and health program, documents, warning signs, tags and other safety information prepared in English and the language of non-English speaking workers? (01.A.04)			
12. Are drug free workplace requirements enforced? (01.C.02(a)(b))			
13. Are operators of equipment and/or vehicles able to read and understand signs, signals, and operating instructions for the equipment/vehicle used? (01.C.03)			
14. Are operators of equipment such as hoisting equipment and draglines, mobile construction equipment, electrical power systems, hydraulically operated equipment, powered vessels, and boats authorized to operate such equipment in excess of 12 hours of duty time in any 24-hour period, including time worked at other locations/occupations? (01.C.04.a)			
15. Are operators of motor vehicles, while on duty, permitted to operate such vehicles for a continuous period of more than 10 hours in any 24-hour period or after being in a duty status for more than 12-hours in any 24-hour period? (01.C.04.b)			
16. Are two current first aid/CPR cardholders on site, (03.A.02)			
17. Are approved First-Aid kits on site? (03.A)			
18. Is there a Hazard Chemical Inventory and MSDS on site? (06.B.01 (a) (b) (c)(d))			
19. **Are Reflective safety vest type II** being worn, if working around heavy equipment and traffic. i.e. cranes, dozers, trucks etc.? (05.F.01, 02 & 03)			
REMARKS:			