

INSPECTION CRITERIA REFERENCE	THE STREAMLINED INSPECTION PROGRAM (SIP): PROGRAM GUIDANCE Subchapter DO - Tankbarges	Section: VI.E Page: Instruction
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The **Inspection Criteria References (ICR)** are grouped in pre-developed forms by the subchapter in Title 46 applicable to the vessel the Vessel Action Plan (VAP) is being developed for. They are comprised of four sections.

- **Section One** identifies the System, Subsystem, and the ICR Number for referencing the item.
- **Section Two** identifies the authorities—Who is the authorized inspector, what the specific reference for requiring the inspection item, and what the inspection frequency is for that item.
- **Section Three** provides the inspection criteria—how to determine if the item is in compliance.
- **Section Four** identifies what actions are required if the item is found deficient.

In order to prepare the form, the Company SIP Agent will:

- Delete those ICR items that do not apply to the vessel in question.
- Add ICRs for vessel systems that are not provided for in the subchapter specific package, but remain required elements for the vessel inspection program.
- Note all changes on the Record of Changes page.

CAVEAT: Under no circumstances is the list contained here to be considered complete for all vessels that may be enrolled in SIP. It is provided as a template only. ICRs are to be provided for all vessel systems required to be inspected. This would include relevant sections of Titles 33, 46, and 49 CFR, and amplifying policy or regulations, such as IMO Conventions, Treaties, Navigation and Inspection Circulars (NVIC), The Marine Safety Manual, and Official Coast Guard Policy Letters. These documents should be reviewed periodically for currency and revised as the underlying regulations or policy changes.

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STREAMLINED INSPECTION PROGRAM

INSPECTION CRITERIA REFERENCE

(ICR)

For U.S. Inspected Tank Barges
(Subchapter D/O)

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RECORD OF CHANGES

CHANGE NUMBER	DATE OF CHANGE	DATE ENTERED	BY WHOM ENTERED

SYSTEM: DOCUMENTS AND PAPERWORK
SUBSYSTEM: REQUIRED DOCUMENTS

ICR NUMBER: A
01

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OPERATOR or designated representative
REFERENCES: VARIOUS
REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

Verify that the following documents are on board and current:

- a. Certificate of Inspection
 - b. OPA 90 approval letter and emergency notification procedures
 - c. Certificate of Financial Responsibility
 - d. Certificate of Documentation (If required)
 - e. Stability Letter (If required)
 - f. Transfer Procedures
 - g. Vapor control system procedures (if applicable)
 - h. Benzene monitoring program (if applicable)
 - i. Pipeline, relief valve, pressure gauge hydrostatic test affidavit
-

DEFICIENCY ACTION

OBTAIN CURRENT DOCUMENT AND PLACE ONBOARD PRIOR TO OPERATION.

SYSTEM: MISCELLANEOUS
SUBSYSTEM: NOTICES AND MARKINGS

ICR NUMBER: A
08

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OPERATOR or designated representative
REFERENCES: 46 CFR 35.30-1
REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

Visually inspect all warning signs and ensure they are legible

- a. Expansion domes and slop tank openings are properly marked "Danger Keep Out"
 - b. Warning signs in place with required information
 - c. Red flag in place and painted, red light operable.
 - d. White safety stripe on deck perimeter is clearly marked
 - e. Cargo Information Cards or Material Safety Data Sheets for cargoes carried are onboard or posted
-

DEFICIENCY ACTION

Take appropriate action to ensure compliance

SYSTEM: LIFESAVING EQUIPMENT
SUBSYSTEM: LIFE PRESERVERS

ICR NUMBER: B
01

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OPERATOR or designated representative
REFERENCES: 46 CFR 33
REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

Ensure:

- a. Appropriate number and type of life preservers on board.
 - b. Each life preserver inspected for suitability.
 - c. Proper amount of reflective material.
 - d. Operable water light and whistle if ocean, coastwise, or Great Lakes service.
-

DEFICIENCY ACTION

REPLACE/REPAIR DEFICIENT ITEMS. IF A DEFICIENCY CANNOT BE CORRECTED, PRIOR TO THE CARRIAGE OF PASSENGERS, NOTIFY THE COGNIZANT OCMI.

SYSTEM: LIFESAVING EQUIPMENT
SUBSYSTEM: RING BUOYS

ICR NUMBER: B
02

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OPERATOR or designated representative
REFERENCES: 46 CFR 33
REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

Ensure:

- a. Sufficient number based on tankbarge length, if manned
 - b. Ensure appropriate number of water lights.
 - c. Ensure 30 inch diameter with no holes through lamination.
-

DEFICIENCY ACTION

REPLACE/REPAIR DEFICIENT ITEMS. IF A DEFICIENCY CANNOT BE CORRECTED, PRIOR TO THE CARRIAGE OF PASSENGERS, NOTIFY THE COGNIZANT OCMI.

SYSTEM: FIREFIGHTING EQUIPMENT
SUBSYSTEM: FIXED FIREFIGHTING EQUIPMENT

ICR NUMBER: C
02

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OPERATOR or designated representative
REFERENCES: 46 CFR 34
REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

Verify the following:

- a. Proper number of fire hydrants depending on space.
 - b. Each hydrant equipped with at least one length of hose.
 - c. Each hydrant equipped with a CG approved combination stream/spray nozzle.
 - d. Each hydrant equipped with a spanner wrench.
 - e. Proper markings
-

DEFICIENCY ACTION

Replace missing or worn equipment.

SYSTEM: FIREFIGHTING EQUIPMENT
SUBSYSTEM: PORTABLE FIRE EXTINGUISHERS

ICR NUMBER: C
04

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OPERATOR or designated representative
REFERENCES: 46 CFR 31.10-18(B)
REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

Verify the following:

- a. Ensure pressure gauge is in the operating range
 - b. Ensure proper size and type required onboard as required by COI
 - c. Ensure USCG or UL approved
 - d. Properly serviced and tested IAW 46 CFR Table 31.10-18(b)
 - e. Check inspection tag for current service date
 - f. Ensure seal is intact
 - g. Check general condition of unit including hoses/nozzles
 - h. Check for proper hydro date (If applicable)
 - i. Check stations for brackets, markings, accessibility
-

DEFICIENCY ACTION

Recharge or replace portable extinguisher

SYSTEM: HULL AND DECK FITTINGS ICR NUMBER: G
SUBSYSTEM: NAVIGATION LIGHTS, DAYSHAPES AND 05
NAVIGATION LIGHT STANDS

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OPERATOR or designated representative
REFERENCES: 46 CFR 31
REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

Visually verify:

- a. Configuration of navigation lights or dayshapes is correct.
 - b. Navigation light stands are not missing or bent.
 - c. Interiors of stands are painted flat black.
 - d. Lights burn brightly when energized.
-

DEFICIENCY ACTION

REPLACE/REPAIR DEFICIENT ITEMS

SYSTEM: HULL AND DECK FITTINGS ICR NUMBER: H
SUBSYSTEM: BITTS, CLEATS, CHOCKS, WINCHES,
02
DECK, AND SIDESHELL

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OPERATOR or designated representative
REFERENCES: 46 CFR 31.10-17
REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

Visually verify:

- a. Winches are in serviceable condition
 - b. Deck structure and side shell are free of cracks/fractures
 - c. No safety hazards on deck
 - d. Bitts, cleats, and chocks are in serviceable condition
 - e. Ladders, rails guards, and lifelines are in good condition
-

DEFICIENCY ACTION

REPLACE/REPAIR DEFICIENT ITEMS. IF A DEFICIENCY CANNOT BE CORRECTED, PRIOR TO THE CARRIAGE OF PASSENGERS, NOTIFY THE COGNIZANT OCMI.

SYSTEM: HULL AND DECK FITTINGS
SUBSYSTEM: VOID SPACES

ICR NUMBER: I
02

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OPERATOR or designated representative
REFERENCES: 46 CFR 32.20-5, 39.20-11
REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

Visually inspect:

- a. Hatches to ensure that gaskets are in serviceable condition and secure
 - b. Rakes and void spaces checked to ensure they are free of excess water (3 inches or less) or any product
 - c. Hull has no visible or known holes/fractures
-

DEFICIENCY ACTION

Make appropriate repairs.

SYSTEM: HULL AND DECK FITTINGS
SUBSYSTEM: PROPER HULL MARKINGS

ICR NUMBER: I
12

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OPERATOR or designated representative
REFERENCES: 46 CFR 31.25-1, 32.05-1 AND 42.13-40
REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

Visually inspect all hull markings and ensure they are painted and legible:

- a. Draft marks port/starboard, bow/stern
 - b. Barge name/number, port/starboard side of barge in contrasting color
 - c. Loadline markings permanently marked port/starboard side of barge and painted contrasting color
 - d. Hailing port painted on stern
-

DEFICIENCY ACTION

Repaint faded or worn markings

SYSTEM: HULL AND DECK FITTINGS
SUBSYSTEM: LOADLINE

ICR NUMBER: I
12a

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OPERATOR or designated representative
REFERENCES: 46 CFR 42
REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

Visually verify:

- a. Loadline is permanently affixed.
 - b. All marks are easily visible.
 - c. Copy of loadline certificate carried aboard.
-

DEFICIENCY ACTION

REPLACE/REPAIR DEFICIENT ITEMS

SYSTEM: ACCOMODATIONS SPACES
SUBSYSTEM: BERTHING AND WASHING AREAS

ICR NUMBER: J
07

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OPERATOR or designated representative
REFERENCES: 46 CFR 32.40
REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

Ensure:

- a. 30 square ft of deck space per occupant.
 - b. No more than four berths per space.
 - c. 60 inch high lockers per person.
 - d. Space heated to at least 68 degrees Fahrenheit
 - e. Wash, toilet, and shower spaces hot water capable.
-

DEFICIENCY ACTION

REPLACE/REPAIR DEFICIENT ITEMS. IF A DEFICIENCY CANNOT BE CORRECTED, PRIOR TO THE CARRIAGE OF PASSENGERS, NOTIFY THE COGNIZANT OCMI.

SYSTEM: CARGO TRANSFER SYSTEM
SUBSYSTEM: CARGO PUMP, ENGINE, SPARK
ARRESTOR AND FUEL SYSTEM

ICR NUMBER: T
07

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OPERATOR or designated representative
REFERENCES: 46 CFR 32.02; 32.50-35; and 33 CFR 155.780
REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

Verify the following:

- a. Ensure all machinery guards are secured and in good condition
 - b. Check remote manual shutdown (emergency shutdown) for the cargo pump engine for freedom of movement and the ability to shutdown the engine
 - c. Check oil and antifreeze pump engine levels
 - d. Check pump angle drive lube oil and seal
 - e. Ensure spark arrester is secured to engine, and no cracks are located around muffler
 - f. Ensure pollution placard prominently located onboard barge
 - g. Check engine fuel system:
 1. Conduct visual inspection of operating machinery and piping for fuel/oil leaks and/or other unusual characteristics
 2. Ensure word "diesel" is painted/stenciled on each side of tank
 3. Check condition of tank vent pipe flame screen
-

DEFICIENCY ACTION

Make appropriate repairs or alterations

SYSTEM: CARGO TRANSFER SYSTEM
SUBSYSTEM: THERMAL FLUID HEATER

ICS NUMBER: T
08

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OPERATOR or designated representative
REFERENCES: 46 CFR 52.25-15, 61.30-20, 63.25-5
REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

Visual/Operational inspection to include:

- a. Proper pre-purge
 - b. Burner ignition sequence checks, combustion control operation, fluid flow controls, limit controls high temperature controls, post-purge controls, safety relief valves, and verification of flame safeguard
 - c. Visual inspection of exhaust stack, and associated pumps and piping to check for rust, physical deterioration.
-

DEFICIENCY ACTION

Make any necessary repairs

SYSTEM: CARGO TRANSFER SYSTEM
SUBSYSTEM: PIPING AND VALVES

ICR NUMBER: T
09

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OPERATOR or designated representative
REFERENCES: 46 CFR 31.10-17, 32.50-15, 39; AND 33 CFR 156.170(3)
REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

Visually inspect:

- a. Controls; loading discharge and suction valves for freedom of movement and that packing is tight
- b. Gauges; the gauge used for the pump pressure is working and full of fluid
- c. No signs of leaks on the above deck cargo piping
- d. Vapor control system (if applicable) is in good repair , stenciled "Vapor System" and vapor header properly indicated with red and yellow bands
- e. Vapor header flange stud properly installed, aligned and marked

Check to ensure:

- a. High level alarms and /or shutdowns engage at proper levels
 - b. Overfill spill valves react in accordance with approved plans
-

DEFICIENCY ACTION

Initiate proper repairs.

SYSTEM: CARGO TRANSFER SYSTEM ICR NUMBER: T
SUBSYSTEM: TANK TOPS AND PRESSURE VESSELS 10

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OPERATOR or designated representative
REFERENCES: 46 CFR 31.10-17, 30.10-25; 33 CFR 155.815
REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

Visually inspect:

- a. Trunks are free of cracks/fractures and cleaned of spilled product
 - b. Cargo and ullage hatches in good condition, gaskets in place and dogs are free moving
 - c. Verify that PV valves are USCG approved and materials are compatible for cargoes listed on COI
 - d. Ensure valves are clean and in good working order by tearing down, cleaning, reassembling and where applicable, bench testing
 - e. Flame screens clean properly fitted with no tears, properly installation all PV's and goosenecks (30x30 mesh screen or 20x20 double mesh screen).
 - f. Cargo valve material appropriate (Dangerous Cargoes)
-

DEFICIENCY ACTION

Make appropriate repairs

SYSTEM: POLLUTION PREVENTION
SUBSYSTEM: CARGO OIL CONTAINMENT
(DRIP PANS, SPILL RAILS)

ICR NUMBER: S
02

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OPERATOR or designated representative
REFERENCES: 33 CFR 155.310
REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

Visually inspect:

- a. Condition: No cracks, missing plugs, or build up of trash within containment
 - b. Remove any build up of product/water within containment area
 - c. Ensure discharge containment equipment is leak free and fitted with proper closure devices (valves/plugs)
-

DEFICIENCY ACTION

Make appropriate repairs

SYSTEM: POLLUTION PREVENTION
SUBSYSTEM: OIL TRANSFER PROCEDURES

ICR NUMBER: S
04

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OPERATOR or designated representative
REFERENCES: 33 CFR 155.750
REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

Visual inspection of:

- a. Transfer procedures accurately depict the system on barge and contain up to date emergency notification telephone numbers
-

DEFICIENCY ACTION

Replace or update transfer procedures

SYSTEM: POLLUTION PREVENTION ICR NUMBER: S
SUBSYSTEM: POLLUTION RESPONSE EQUIPMENT 09

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OPERATOR or designated representative
REFERENCES: 33 CFR 155.1010
REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

Visually verify:

- a. The amount of equipment meets the following requirements:
 - Absorbent boom - ten sections
 - Absorbent pads - four bales
 - b. Disposable boom is connected together for fast response to a spill
 - c. The area where the equipment is maintained is clear of any other non-spill related equipment
-

DEFICIENCY ACTION

Replace missing boom and/or pads. Connect disposable boom

SYSTEM: POLUTION PREVENTION
SUBSYSTEM: OIL TRANSFER HOSE

ICR NUMBER: S
11

AUTHORIZATION

AUTHORIZED INSPECTOR: LICENSED OPERATOR or designated representative
REFERENCES: 33 CFR 156.170(G)(1)
REGULATORY INSPECTION FREQUENCY: ANNUALLY

INSPECTION CRITERIA

Verify that:

- a. Cargo transfer hose has no kinks, bulges soft spots or any other defect that would permit the discharge of cargo through the hose material
 - b. The test date and MAWP are legibly stenciled/stamped on one end of the hose and that the annual test date is current
 - c. The hose is properly blanked when not in use
-

DEFICIENCY ACTION

Replace/test hose if necessary, re-stencil MAWP and annual test date.