Spill Prevention, Preparedness, and Response Program

DEPARTMENT OF ECOLOGY
State of Washington

Washington State’s Voluntary Program for Tankers

Voluntary Best Achievable Protection (VBAP) Standards and Exceptional Compliance Program (ECOPRO) Standards

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Abstract: A compilation of 35 standards addressing operating procedures, personnel policies, management practices, marine safety technology, oil spill preparedness, and oil spill response for companies participating in Washington State’s Voluntary Program for Tankers. Tanker companies meeting these standards receive public recognition for their commitment to marine safety and environmental stewardship.

This publication is also available on the Department of Ecology website at http://www.ecy.wa.gov/programs/spills/spills.html.

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<table>
<thead>
<tr>
<th>Contents</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Navigation Watch - Bridge Watch Composition</td>
<td>1</td>
</tr>
<tr>
<td>2. Bridge Resource Management (BRM)</td>
<td>2</td>
</tr>
<tr>
<td>3. Coordination with Pilots - Pilotage Checklist</td>
<td>3</td>
</tr>
<tr>
<td>4. Security Rounds</td>
<td>4</td>
</tr>
<tr>
<td>5. Anchor Watch</td>
<td>5</td>
</tr>
<tr>
<td>6. Engineering Watch</td>
<td>5</td>
</tr>
<tr>
<td>7. Fix Intervals</td>
<td>6</td>
</tr>
<tr>
<td>8. Voyage Planning</td>
<td>6</td>
</tr>
<tr>
<td>9. Compass Checks</td>
<td>7</td>
</tr>
<tr>
<td>10. Assist Tugs at Port Angeles</td>
<td>8</td>
</tr>
<tr>
<td>11. Ship Service Generators</td>
<td>8</td>
</tr>
<tr>
<td>12. Steering Flat Inspections</td>
<td>9</td>
</tr>
<tr>
<td>13. Maneuvering Fuel</td>
<td>9</td>
</tr>
<tr>
<td>14. Pre-arrival and pre-departure tests and inspections</td>
<td>10</td>
</tr>
<tr>
<td>15. Emergency Procedures</td>
<td>12</td>
</tr>
<tr>
<td>16. Event Reporting</td>
<td>13</td>
</tr>
<tr>
<td>17. Comprehensive Training Program</td>
<td>15</td>
</tr>
<tr>
<td>18. Familiarization (Orientation) Training</td>
<td>15</td>
</tr>
<tr>
<td>19. Position-Specific Training</td>
<td>17</td>
</tr>
<tr>
<td>20. Refresher Training</td>
<td>18</td>
</tr>
<tr>
<td>21. Shipboard Emergency Drills</td>
<td>19</td>
</tr>
<tr>
<td>22. Drug and Alcohol Policies</td>
<td>20</td>
</tr>
<tr>
<td>24. Work Hours</td>
<td>21</td>
</tr>
<tr>
<td>25. Language Proficiency</td>
<td>21</td>
</tr>
<tr>
<td>26. Record Keeping: Training Records and Work Hour Records</td>
<td>22</td>
</tr>
<tr>
<td>27. Vessel Visitation</td>
<td>22</td>
</tr>
</tbody>
</table>
## Contents

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>28. Planned Maintenance Program</td>
<td>23</td>
</tr>
<tr>
<td>29. Hull Inspection Plans</td>
<td>23</td>
</tr>
<tr>
<td>30. Preventive Maintenance Documentation</td>
<td>24</td>
</tr>
<tr>
<td>31. Technology – Emergency Towing</td>
<td>24</td>
</tr>
<tr>
<td>32. Ballast Water Management</td>
<td>25</td>
</tr>
<tr>
<td>33. Waste Oil and Oily Water Management System</td>
<td>25</td>
</tr>
<tr>
<td>34. Automated Identification System (AIS)</td>
<td>26</td>
</tr>
<tr>
<td>35. Spill Preparedness Forms and Checklists</td>
<td>26</td>
</tr>
</tbody>
</table>
Washington State’s Voluntary Program for Tankers

Voluntary Best Achievable Protection (VBAP) Standards and Exceptional Compliance Program (ECOPRO) Standards

To maintain membership in Washington State’s Voluntary Program for Tankers, you must meet all Washington State laws pertaining to oil spill prevention, preparedness, and response. The applicable laws, known as the Washington Administrative Code (WAC), include:

- WAC 173-180  Facility Oil Handling Standards
- WAC 173-182  Oil Spill Contingency Plans
- WAC 173-183  Pre-assessment Screening and Oil Spill Compensation
- WAC 173-184  Vessel Oil Transfer Advance Notice and Containment Requirements
- WAC 317-31   Accepted Industry Standards/Substantial Risk
- WAC 317-40   Bunkering Operations
- WAC 317-50   Financial Responsibility

In addition to complying with applicable state, federal, and international standards, the owner or operator of a tank vessel operating in Washington State waters must meet the following standards to qualify as a VBAP or ECOPRO company. In order to meet an ECOPRO standard, the corresponding VBAP standard must also be met.
1. Navigation Watch - Bridge Watch Composition

Guidelines for bridge watch composition:

The navigation watch consists of at least two licensed deck officers, a helmsman, and a lookout. One of the licensed deck officers may be a state-licensed pilot when the tanker is in pilotage waters. The helmsman does not serve as a lookout. Refer to the Revised Code of Washington (RCW) 88.16 Pilotage Act.

a. In restricted visibility, the navigation watch consists of at least two licensed deck officers, one of whom may be a licensed pilot. These two officers are assigned primary responsibility for the following: vessel navigation, collision avoidance, and bridge administration (see VBAP Standard 2);

b. The officer in charge of the navigation watch records in the deck log the time restricted visibility begins and ends;

c. Communication between the lookout and the officer in charge on the bridge is rapid and reliable; and

d. The name of each member of the navigation watch is logged in the deck log at the time the member assumes watch-standing duties.

1. Navigation Watch - Bridge Watch Composition

While under way in Washington state waters cell phone use for non-operational purposes is prohibited by persons on navigational watch.

AND

Operational calls are kept to an absolute minimum.
## VBAP Standard

### 2. Resource Management (BRM)

Guidelines for Bridge Resource Management (BRM):

Each vessel employs a BRM system for vessel navigation, collision avoidance, and bridge administration that organizes the navigation watch into a bridge team and coordinates the use of bridge equipment.

The system includes, but is not limited to:

- a. Defined bridge team assignments and duties for each team member. Duties and assignments may differ for open sea transits, coastal and restricted waterway navigation, and conditions of restricted visibility;
- b. Written procedures for navigating with a pilot (see VBAP Standard 3);
- c. Written guidance that defines the responsibilities, stations, and reporting guidelines for each bridge team member in response to emergencies, including pollution incidents;
- d. Articulated goals, objectives, and priorities for each bridge team member;
- e. Clear delegation of duties, responsibilities, and authority between bridge team members;
- f. Clear guidance for bridge team members for understandable and situation-specific communication between members, and between the bridge team and pilot. Communication guidelines may differ for open sea transits, coastal and restricted waterway navigation, and conditions of restricted visibility;
- g. Comprehensive passage and voyage planning from berth to berth (see VBAP Standard 8); and
- h. Defined responsibilities and stations for each bridge team member for maneuvering to enter or leave designated and customary shipping lanes, anchorage, and moorage.

### ECOPRO Standard

### 2. Bridge Resource Management (BRM)

Company provides additional BRM training (see VBAP Standard 19), which may be shore-based or provided onboard vessels, for all bridge watchstanders.

**AND**

The additional training is conducted annually.

Some examples of additional BRM training are:

- Classroom training.
- Personal computer-based training.

**AND**

Written guidance and procedures for integrating all electronic navigation equipment onboard the vessel into the team assignments and duties.
### Coordination with Pilots – Pilotage Checklist

Guidelines for coordination with pilots:

a. Pilot coordination occurs in a manner that does not interfere with the performance of the pilot’s duties.

b. The master or officer in charge of the watch identifies for the pilot those members of the bridge team who are proficient in English and explains the responsibilities of each licensed deck officer on watch.

c. The master or officer in charge of the watch uses a checklist that includes, at a minimum, the following:

   1. Information requested by the pilot under WAC 296-116-205 concerning vessel maneuvering characteristics, condition of navigation and communication equipment, capabilities and problems with the propulsion and steering system, and other vessel specifications;

   2. Navigational procedures and considerations, including destination, intended route, planned speed, vessel traffic services, and tug escort requirements; and

   3. Local conditions including expected weather, tide, current, sea conditions, and vessel traffic.

d. If conditions permit, the pilot coordination checklist may be covered during the pre-escort conference required under 33 CFR Part 168 for single-hull tankers over five thousand gross tons.

### Coordination With Pilots – Pilotage Checklist

Pilotage checklist requires more information exchange than required under the VBAP standard.

Some examples of additional information exchange are:

- Bridge team informs pilot that all equipment used for piloting is on board and ready to use.
- Personal team and pilot discuss characteristics of mooring equipment including anchors and mooring lines and sequence of putting out or taking in mooring lines.
### Security Rounds

Guidelines for security rounds:

Security rounds are conducted in spaces designated by the vessel’s master to identify and to correct, if feasible, safety hazards such as potential fire hazards, defective machinery, hull and bulkhead integrity, malfunctioning safety equipment, potential sources of pollution, and potentially dangerous crew activities.

- **a.** Security rounds are conducted when the vessel is underway, anchored, or moored;

- **b.** The master designates spaces on as much of the vessel as the master deems safe for the crew member making the round;

- **c.** Crew members making security rounds are provided appropriate training and inspection checklists (which may be posted in conspicuous locations or carried by the person making the round), and instructed to first notify the officer in charge of the watch before attempting corrective action when a hazard is noted;

- **d.** Security rounds are made at least every two hours. On tankers with functioning automated fire and flooding detection systems, the frequency of the rounds may be at least every four hours; and

- **e.** The officer in charge of the watch documents the completion of each security round in the deck log or other document that is maintained on board the vessel for this purpose.

### ECOPRO Standard

The ECOPRO standard is identical to the VBAP standard.
<table>
<thead>
<tr>
<th><strong>VBAP Standard</strong></th>
<th><strong>ECOPRO Standard</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>5. Anchor Watch</strong></td>
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Guidelines for anchor watch:

a. A licensed deck officer or other qualified person maintains a watch on the bridge at all times while the tanker is at anchor;

b. The bridge watch stander speaks English;

c. The position of the vessel and under keel clearance at anchor is continuously monitored; and

d. The ship’s position is recorded manually or electronically at least once each hour, and more often than hourly if weather and tide/current conditions warrant.

AND

Electronic Chart Display Information System (ECDIS) or Electronic Chart System (ECS) and Global Positioning System (GPS) alarms are set to alert watchstander if vessel begins to drag anchor.


Guidelines for engineering watch:

A licensed engineering officer is in the engineering control room and in the immediate vicinity of the machinery space’s emergency throttle controls if:

a. The tanker's engineering control room is not within the machinery spaces; and

b. The vessel is maneuvering to embark or disembark a pilot, docking or departing berth, or anchoring or departing anchorage.

AND

The ship is equipped with automated systems for monitoring the engine room.

Examples of automated systems for monitoring the engine room are:

- Video monitoring devices.
- Extra sensors and remote read-outs for pressures, temperatures, and electrical status.
7. **Fix Intervals**

Guidelines for fix intervals:

a. The bridge team constantly monitors the vessel’s position using all appropriate navigational aids to determine set and drift; and

b. Positions are recorded at fifteen-minute intervals or less, either manually or electronically.

7. **Fix Intervals**

Fixes are electronically and manually recorded.

AND

If the electronic bridge equipment is capable of storing position data for six months, the position data is saved for at least six months.

8. **Voyage Planning**

Guidelines for voyage planning:

A berth-to-berth voyage plan is developed for the tanker's trip through Washington state waters. The advice of the vessel's state-licensed pilot and varying local conditions are taken into consideration. A standard voyage plan for consecutive voyages along the same routes may be used if updated prior to the tanker's entry into state waters.

The voyage plan addresses, at a minimum, the following:

a. Waterway characteristics such as channel depth, turning areas, and navigational obstructions, based on current and up-to-date charts and navigational publications;

b. Accuracy, dependability, and operating status, of available navigational aids, based on current notices to mariners and other navigational publications;

c. Environmentally sensitive areas designated and provided by the Northwest Area Committee established under 33 U.S.C. sec. 1321(j), traffic separation systems, areas-to-be-avoided, routes expected to be transited at night, and other areas where caution should be exercised based on up-to-date charts, and navigational publications;

8. **Voyage Planning**

Regular voyage plan updates are made by a licensed deck officer.

AND

Voyage plans are prominently displayed electronically or as a paper copy.

AND

Voyage plans are retained for at least 6 months.
8. Voyage Planning cont.

d. Predicted weather, currents, and tides;

e. Expected vessel traffic;

f. Procedures, expected communications, and times for complying with the requirements for vessel traffic services, pilotage, tug escorts, and tug assists;

g. Emergency procedures to be used while transiting state waters for vessel casualties, pollution incidents, and personnel health and safety;

h. Berthing and anchoring arrangements, including water depth at intended mooring or anchorage; and

i. Engineering considerations, including pre-arrival tests and inspections, fuel tanks used, expected fuel consumption, stability, trim and drafts, and required ballast.

9. Compass Checks

Guidelines for compass checks:

a. The magnetic heading corresponding to each gyro heading steered is posted and kept updated for the helmsman; and

b. Additional tests are performed to verify accuracy or deviation of the compasses before transiting Washington waters.

Examples of additional tests are: checking gyro and magnetic headings while on ranges; comparing gyro heading with dock (pier or wharf) heading; and determination of gyro error by taking azimuths.

9. Compass Checks

Additional equipment is onboard. Examples of additional equipment are:

- Extra master gyrocompass.
- Extra GPS.
**10. Assist Tugs at Port Angeles**

Guidelines for assist tugs at Port Angeles:

A laden tanker uses at least one assist tug for anchoring and departing anchorages in the Port of Port Angeles. The Port of Port Angeles includes all navigable waters west of 123 degrees, 24 minutes west longitude encompassed by Ediz Hook.

**10. Assist Tugs at Port Angeles**

An assist tug is used when the tanker is in ballast.

**IF**

Another deep-draft vessel (laden or empty) is anchored at Port Angeles.

**11. Ship Service Generators**

Guidelines for ship service generators:

a. Tankers without automatic stand-by switching gear for stand-by generators operate with a stand-by generator running and immediately available to assume the electrical load; and

b. If an automatic switching gear is fitted, then at least monthly, emergency and stand-by generators are started and the automatic switching gear is proven to be working.

**11. Ship Service Generators**

Vessel has generators with automatic standby switching gear.
<table>
<thead>
<tr>
<th><strong>VBAP Standard</strong></th>
<th><strong>ECOPRO Standard</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>12. Steering Flat Inspections</strong></td>
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</tr>
<tr>
<td>Guidelines for steering flat inspections when vessel is in maneuvering situations:</td>
<td>Vessel has video monitoring equipment installed in the steering flat.</td>
</tr>
<tr>
<td>Engineers inspect the steering gear flat hourly unless monitored by closed circuit television or other acceptable monitoring system.</td>
<td><strong>OR</strong></td>
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<tr>
<td>Examples of other acceptable monitoring systems are: low hydraulic pressure/fluid level alarms, power failure alarms, fire and smoke alarms, or steering flat bilge alarms if applicable, etc.</td>
<td>Other acceptable means of monitoring.</td>
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<td><strong>AND</strong></td>
<td><strong>AND</strong></td>
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<tr>
<td>The crew conducts hourly rounds of steering gear flat.</td>
<td>The crew conducts hourly rounds of steering gear flat.</td>
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<tr>
<td>Guidelines for maneuvering fuel:</td>
<td>Vessels operating on a different fuel for maneuvering uses low sulfur diesel (as defined by EPA) as maneuvering fuel, if appropriate to engine type and operation.</td>
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<td>Vessels operating on a different fuel for maneuvering switch to maneuvering fuel in advance of entering Washington state waters. Main engines are operating to capacity on fuel used for maneuvering before operating in state waters.</td>
<td><strong>OR</strong></td>
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<tr>
<td><strong>AND</strong></td>
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</tr>
</tbody>
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14. Pre-arrival and pre-departure tests and inspections

Guidelines for pre-arrival and pre-departure tests and inspections:

A tanker, twelve hours or less before it enters or gets underway in Washington State waters, conducts and logs in the deck or engineering log the following pre-arrival/departure tests or inspections (as appropriate for the system):

a. Navigation equipment, including compasses, radars, ECDIS (if installed), AIS, and speed monitoring devices, are inspected. Compass errors are logged in the deck log or in a dedicated compass error log;

b. Emergency and stand-by ship service generators are started and the switch gear proven, at least monthly, to be working;

c. All steering systems and local controls of the steering gear at the steering gear flat are inspected or tested and the steering gear flat inspected for unusual conditions such as leaks, fractures, and loose connections;

d. The main engine, or engines, is tested ahead and astern, or through the full range of pitch of controllable pitch propellers if the tanker is so equipped;

e. Main lubrication oil pumps are inspected or tested and ready for immediate use;

f. Main heavy oil pumps are inspected or tested and ready for immediate use;

g. For main engine lubrication and fuel oil systems fitted with duplex strainers, stand-by strainers are cleaned, purged, and made immediately available; and

h. Fuel sufficient to operate the main engine or engines on the transit to berth or anchorage is transferred to the main engine settling or service tanks, or both.

14. Pre-arrival and pre-departure tests and inspections

Vessel has remote devices to monitor equipment subject to pre-arrival and pre-departure tests and inspections.

OR

Vessel conducts more tests and inspections than those required under the VBAP standard.

Examples of additional tests and inspections are:

- Test bridge VHF radio sets to ensure they are operating correctly and set on channels that will be used for port control, pilot boat, tug, and vessel-to-vessel communications.
- Check storage batteries for emergency lighting and power systems in vessel control and machinery spaces.
- Check pilot ladder and/or pilot hoisting gear to ensure it is adequate and operating correctly.
- Check all clocks in pilot house to ensure they are correctly set and synchronized.
14. Pre-arrival and pre-departure tests and inspections *cont.*

i. For motor-driven tankers:
   1. Main and stand-by cooling water system circulating pumps are inspected or tested and ready for immediate use;
   2. Intake or charge air auxiliary electric blowers, if applicable, are inspected or tested and ready for immediate use;
   3. Starting and control air tanks are filled and ready for use;
   4. Main and stand-by air compressors are inspected or tested and ready for immediate use; and
   5. The starting air piping system is aligned and drained of condensate.

j. For steam-driven tankers:
   1. Spare boiler burners are prepared and ready for immediate use;
   2. Forced draft fans are inspected or tested and ready for immediate use; and
   3. Main and stand-by feed water pumps are inspected or tested and ready for immediate use.
15. **Emergency Procedures**

Guidelines for emergency procedures are maintained in a separate folder on the bridge and all bridge team personnel are trained in their use. These procedures include at least the following:

a. Station bills are posted and clearly state crew assignments and duties for the following emergencies:
   1. Shipboard fire;
   2. Orders to abandon ship;
   3. Man overboard; and
   4. Oil spill response.

b. Written procedures are established for responding to:
   1. Collisions and allisions;
   2. Groundings and strandings;
   3. Hull breach, structural failure, and foundering;
   4. Loss of propulsion;
   5. Loss of steering;
   6. Loss of electrical power; and
   7. Gyrocompass malfunction.

<table>
<thead>
<tr>
<th><strong>VBAP Standard</strong></th>
<th><strong>ECOPRO Standard</strong></th>
</tr>
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<tbody>
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<td>15. <strong>Emergency Procedures</strong></td>
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<tr>
<td>Guidelines for emergency procedures are maintained in a separate folder on the bridge and all bridge team personnel are trained in their use. These procedures include at least the following:</td>
<td>An emergency squad organization with clearly defined duties is in place. AND Crew members participate in an emergency preparedness training program for additional emergencies. Examples of additional emergencies are:</td>
</tr>
<tr>
<td>a. Station bills are posted and clearly state crew assignments and duties for the following emergencies:</td>
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<tr>
<td>1. Shipboard fire;</td>
<td>• Helicopter evacuation.</td>
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<tr>
<td>2. Orders to abandon ship;</td>
<td>• Tank or void space evacuation.</td>
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<tr>
<td>3. Man overboard; and</td>
<td>• Flooding, including pump room and engine room flooding.</td>
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<tr>
<td>4. Oil spill response.</td>
<td></td>
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<tr>
<td>b. Written procedures are established for responding to:</td>
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<td>6. Loss of electrical power; and</td>
<td></td>
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<td>7. Gyrocompass malfunction.</td>
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</table>

c. Written procedures are established outlining preparations for:
   1. Emergency towing;
   2. Responding to loss of throttle control from the bridge; and
   3. Weather that poses hazards to personnel, the vessel, or equipment.

16. Event Reporting

   Guidelines for event reporting:
   If the vessel is involved in an event, as defined below, while in Washington state waters:
   a. An event report is submitted to the Department of Ecology that describes:
      1. The date time and location of each event;
      2. The weather conditions at the time of the event;
      3. The vessel operations underway at the time;
      4. The identity of any facilities and other vessels involved in the event;
      5. The type and amount of any oil spilled, and the estimated amount recovered;
      6. A list of any government agencies to which the event was reported;
      7. A brief analysis of any known causes and contributing factors for each event that considers at a minimum; human error, equipment or technology failure, and maintenance or inspection deficiencies; and

   EXCEPT
   Near miss event reports are required only for near misses which occur in Washington state waters.
16. **Event Reporting cont.**

8. A description of measures taken to prevent a reoccurrence of each event, including changes to operating or maintenance procedures, personnel policies, vessel crew and organization, and the vessel’s technology.

b. The position plotting records, whether written, typed, electronically, or otherwise recorded, and the comprehensive written voyage plan are not erased, discarded, or altered.

c. "Event" means a:
   1. Collision;
   2. Allision;
   3. Near-miss incident which means a pilot, master, or other person in charge of navigating a tank vessel successfully takes action of a non-routine nature to avoid a collision with another ship, structure, or aid to navigation, or grounding of the vessel, or damage to the environment, and which trigger the company’s causal analysis system;
   4. Marine casualty which means those casualties described in 46 C.F.R. sec. 4.05-1 except subsections (a)(5), (a)(6) and (b), regardless of vessel type, nation of registry; or location;
   5. Disabled vessel which means an accidental or intentional grounding, failure of the propulsion or primary steering systems, failure of a component or control system that reduces the vessel's maneuverability, or fire, flood, or other incident that affects the; and vessel’s seaworthiness or fitness for service; or
   6. Spills of oil from a tank vessel.
<table>
<thead>
<tr>
<th><strong>VBAP Standard</strong></th>
<th><strong>ECOPRO Standard</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>17. Comprehensive Training Program</strong></td>
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<tr>
<td>The comprehensive training program includes familiarization training (VBAP Standard 18), position-specific training (VBAP Standard 19), and refresher training (VBAP Standard 20).</td>
<td>Required training is completed within less than three years of hire. <strong>OR</strong> The comprehensive training program includes additional topics or elements. (See VBAP Standards 18 and 19 for examples of additional topics.)</td>
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<tr>
<td>In addition to complying with the 1995 Amendments to the Annex of the International Convention on Standards of Training, Certification, and Watchkeeping for Seafarers, 1978 (STCW), and Federal Standards, tank vessels operating in Washington state waters meet the following training standards:</td>
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<td>Within three years from the date of employment by the owner or operator, a crew member completes the company’s training program which includes instruction on the use of job-specific equipment; installed technology; lifesaving equipment and procedures; and oil spill prevention and response equipment and procedures.</td>
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<td><strong>18. Familiarization (orientation) Training</strong></td>
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<tr>
<td>Guidelines for familiarization (orientation) training:</td>
<td>Familiarization (orientation) training includes additional topics. <strong>Examples of additional topics are:</strong></td>
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<tr>
<td>Before being assigned to shipboard duties, crew members receive familiarization training in personal survival techniques including:</td>
<td>- Orientation in the working relationship between shore-based vessel operations and shipboard operations.</td>
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<tr>
<td>a. Communicating with other persons on board on elementary safety matters and understanding safety information symbols, signs, and alarm signals;</td>
<td>- Drug and alcohol awareness training and orientation in company policy on drug and alcohol abuse (for all crew members).</td>
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<tr>
<td>b. What to do if:</td>
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<tr>
<td>1. A person falls overboard;</td>
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<td>2. Fire or smoke is detected; or</td>
<td></td>
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<tr>
<td>3. The fire or abandon ship alarm is sounded.</td>
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<td><strong>VBAP Standard</strong></td>
<td><strong>ECOPRO Standard</strong></td>
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</tr>
<tr>
<td><strong>18. Familiarization (orientation) Training cont.</strong></td>
<td><strong>18. Familiarization (orientation) Training cont.</strong></td>
</tr>
<tr>
<td>c. Identification of muster and embarkation stations and emergency escape routes;</td>
<td>• Self-contained breathing apparatus (for example, MSA or Scott Airpak) training, including fit testing (for cargo watch standers).</td>
</tr>
<tr>
<td>d. Location and donning of life-jackets and survival suits;</td>
<td>• Orientation and training in looking for, and reporting, oil in the water around the ship (for all crew members).</td>
</tr>
<tr>
<td>e. Raising the alarm and basic knowledge of the use of portable fire extinguishers;</td>
<td></td>
</tr>
<tr>
<td>f. Taking immediate action upon encountering an accident or other medical emergency before seeking further medical assistance on board; and</td>
<td></td>
</tr>
<tr>
<td>g. Closing and opening the weather-tight and water-tight doors fitted in the particular ship, other than those for hull openings.</td>
<td></td>
</tr>
</tbody>
</table>
19. **Position-Specific Training**

Guidelines for position-specific training (training may be in-house, on-the-job or via outside school):

Crew members complete training specific to their position.

a. The vessel's master, chief mate, chief engineer, and senior assistant engineer are trained in shipboard management;

b. The vessel's master and other licensed deck officers are trained in:

   1. Bridge Resource Management (BRM);
   2. Automated Radar Plotting Aids (ARPA);
   3. Shiphandling;
   4. Oil spill prevention and response responsibilities;
   5. Internal notification procedures for oil spills;
   6. Ballast water management;
   7. Waste oil and oily water management;
   8. Automatic Identification System (AIS) for the system which is onboard, including system limitations; and
   9. Electronic Chart Display Information System (ECDIS) or Electronic Chart System (ECS) specific to the vessel (if vessel is so equipped).

**19. Position-Specific Training cont.**

Additional training topics are included.

Examples of additional training topics are:

- Engine Room Resource Management (ERM) for all licensed and unlicensed engine room personnel.
- Confined Space entry.
- Advanced marine fire fighting for all licensed officers.

Note: For examples of advanced marine firefighting topics, see Table A-VI/3 in Section A-VI/3 of the STCW 95 Code.
19. **Position-Specific Training cont.**

   c. The vessel's licensed engineering officers are trained in:
      1. Inert gas systems, if the vessel is so equipped;
      2. Vapor recovery systems, if the vessel is so equipped;
      3. Crude oil washing, if the vessel is so equipped;
      4. Oil spill prevention and response responsibilities;
      5. Ballast water management; and
      6. Waste oil and oily water management.
   
   d. Unlicensed ratings are trained in bridge resource management if assigned bridge responsibilities, and/or in cargo handling if assigned cargo-handling responsibilities; and
   
   e. All ratings are trained in oil spill prevention and response.

20. **Refresher Training**

   Guidelines for refresher training:
   
   a. Crew members receive refresher training at least once every 5 years;
   
   b. Refresher training includes examination of the crew member's skills to determine his or her ability to safely and effectively perform in the position assigned; and
   
   c. Personnel who fail to undergo refresher training within five years, repeat the position specific training program.

20. **Refresher Training**

   Any training identified as necessary to improve performance is accomplished as soon as practical but not later than 18 months for officers and three years for unlicensed personnel.
### VBAP Standard

#### 21. Shipboard Emergency Drills

Guidelines for shipboard emergency drills:

Vessels conduct and log in the deck log emergency drills conducted in the manner and frequency required by 46 C.F.R. § 199.180.

In addition, drills are conducted and logged at least quarterly for:

a. Oil spill response;

b. Emergency steering, that complies with the International Convention of Safety of Life at Sea, Chapter V, Regulation 19-2(d);

c. Loss of propulsion;

d. Loss of electrical power;

e. Emergency towing; and

f. Man overboard.

### ECOPRO Standard

#### 21. Shipboard Emergency Drills

A formal critique of the drill is presented to all crew members after each drill.

**AND**

Items requiring follow-up corrective action are logged.

**AND**

A crew person is assigned to take the required corrective action, if identified.
## 22. Drug and Alcohol Policies

Guidelines for drug and alcohol policies:


The owner's or operator's policies, procedures, and practices also ensure that:

a. A person neither consumes, nor is under the influence of, alcohol on a tanker while in state waters unless that person is a passenger who does not perform any duty on the tanker in Washington state waters; and

b. A person neither consumes, nor is under the influence of, illicit drugs on a tanker while in Washington state waters.

## 23. Personnel (Performance) Evaluation System

Guidelines for personnel (performance) evaluation system:

A tanker operating in Washington state waters has a program for evaluation of each member of a vessel’s crew that includes the following elements:

a. The vessel’s master, chief engineer, and officers monitor the fitness for duty of crew members. Any crew member determined to be unfit for duty is immediately relieved of duties; and

b. An annual (at least) performance review for each permanent crew member provides a job performance evaluation and identifies any training needed to safely and effectively perform that crew member’s assigned duties.

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## 22. Drug and Alcohol Policies

Vessel personnel are trained in both drug and alcohol abuse awareness and in drug and alcohol testing (for post accident and probable cause).

**OR**

Random testing is conducted more frequently.

## 23. Personnel (Performance) Evaluation System

All permanent crew members (licensed officers and ratings) who have over one year of service receive performance evaluations annually.

**AND**

Any crew member whose performance indicates the need for training will complete this training as soon as practical, but not later than 18 months for officers and three years for unlicensed.
<table>
<thead>
<tr>
<th><strong>VBAP Standard</strong></th>
<th><strong>ECOPRO Standard</strong></th>
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</thead>
<tbody>
<tr>
<td><strong>24. Work Hours</strong></td>
<td><strong>24. Work Hours</strong></td>
</tr>
<tr>
<td>Guidelines for work hours:</td>
<td>Company has procedures and policies in place to ensure when circumstances have required that OPA 90 or STCW work hours/rest hours are at their limit, or may be exceeded, the vessel will stand down until proper rest is obtained.</td>
</tr>
<tr>
<td>a. Crew members comply with OPA 90 work hour restrictions and STCW 95 rest period requirements. Company policies ensure crew members are well-rested and able to perform their duties;</td>
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</tr>
<tr>
<td>b. Work hours are documented and maintained, and if requested, made available to the Department of Ecology; and</td>
<td></td>
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<tr>
<td>c. A record of work hours is maintained by all crew members, including the Master and Chief Engineer, for a minimum of one year.</td>
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</tr>
<tr>
<td><strong>25. Language Proficiency</strong></td>
<td><strong>25. Language Proficiency</strong></td>
</tr>
<tr>
<td>Guidelines for language proficiency:</td>
<td>Company verifies proficiency in English during pre-hiring screening. AND All business between ships and shoreside staff is conducted in English. AND Key ratings (unlicensed personnel) such as helmsmen and ratings that stand cargo watches are required to be proficient in English.</td>
</tr>
<tr>
<td>a. All licensed deck officers and the vessel's designated person-in-charge under 33 CFR sec. 155.700 are proficient in English;</td>
<td></td>
</tr>
<tr>
<td>b. A working language understood and spoken by subordinate officers and unlicensed crew is used on board; and</td>
<td></td>
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<tr>
<td>c. All operating manuals, directives, written instructions, placards and station bills are printed in a language understood and spoken by both the vessel's licensed officers and unlicensed crew.</td>
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</tbody>
</table>
### 26. Record Keeping: Training Records and Work Hour Records

Guidelines for record keeping (training records and work hour records):

A tanker operating in Washington state waters maintains the following records:

- **Training Records.** Detailed training records are maintained for all crew on each vessel for at least the last five years. The records include the training required to obtain a license or merchant marine document, completion dates, and performance evaluations of the training described in the training section. Personnel training records are maintained either on the vessel where the person is assigned or at a central location. If the owner or operator maintains personnel training records, the owner or operator provides the Department of Ecology any records requested within 72 hours of receiving a request for the record.

- **Work Hour Records.** Evidence of compliance with applicable federal work hour requirements is maintained on board the vessel for at least one year and, if requested, provided to the Department of Ecology.

### 27. Vessel Visitation

Guidelines for vessel visitation:

- Quarterly visits are conducted by company management, such as port captains or port engineers, to review shipboard management and operations with the vessel master and chief engineer, and provide guidance in correcting identified problem areas; and

- The time and date of the vessel visitation are recorded in a shipboard log, and findings are properly documented.

### ECOPRO Standard

26. **Record Keeping: Training Records and Work Hour Records**

The ECOPRO standard is identical to the VBAP standard.

27. **Vessel Visitation**

Vessel visitation is conducted more frequently than quarterly.
<table>
<thead>
<tr>
<th><strong>VBAP Standard</strong></th>
<th><strong>ECOPRO Standard</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>28. Planned Maintenance (PM) Program</strong></td>
<td><strong>28. Planned Maintenance (PM) Program</strong></td>
</tr>
<tr>
<td>Guidelines for a planned maintenance (PM) program:</td>
<td>Selected systems are inspected more frequently than annually if appropriate. <strong>AND</strong> PM system is at least partially computer-based. <strong>AND</strong> All licensed officers who use the PM system are determined to be competent in PM procedures.</td>
</tr>
<tr>
<td>A PM program for the vessel's navigation, propulsion, steering, communications, electrical, and cargo handling systems that includes at a minimum:</td>
<td></td>
</tr>
<tr>
<td>a. Preventive maintenance for each system according to the procedures and recommended frequency of the machine’s or equipment’s manufacturer;</td>
<td></td>
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<tr>
<td>b. Annual inspections of each system; and</td>
<td></td>
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<tr>
<td>c. Inventory control and maintenance of necessary replacement parts.</td>
<td></td>
</tr>
<tr>
<td><strong>29. Hull Inspection Plans</strong></td>
<td><strong>29. Hull Inspection Plans</strong></td>
</tr>
<tr>
<td>Guidelines for hull inspection plans:</td>
<td>The company has qualified personnel who perform inspections of areas where structural integrity is questioned more frequently than annually. <strong>AND</strong> The company has shoreside personnel responsible for implementation of inspection program.</td>
</tr>
<tr>
<td>a. Areas of a vessel where structural integrity is questioned are identified by the company and visually inspected annually. Thickness is gauged where visual inspections identify potential problems. Any deficiencies are corrected;</td>
<td></td>
</tr>
<tr>
<td>b. Corrosion is noted, reduction measures are identified, and corrosion reduction measures are scheduled; and</td>
<td></td>
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<tr>
<td>c. Corrective action is documented and this documentation is maintained on board.</td>
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</tbody>
</table>
## 30. Preventive Maintenance Documentation

Guidelines for preventive maintenance documentation:

a. Surveys of the holds (tanks), piping, and hull by the vessel's classification society, and annual inspections or surveys by any other independent entity are documented; and

b. Any reports generated are retained on board.

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## 30. Preventive Maintenance Documentation

Licensed officers who use a particular system are determined to be competent in document control procedures for that particular system.

**AND**

The company uses an electronically-archived documentation maintenance system, showing all expiration dates and other significant data.

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## 31. Technology – Emergency Towing

A tank vessel operating in Washington State waters has functional emergency towing gear.

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## 31. Technology - Navigation Equipment

A tank vessel operating in Washington state waters has either an Electronic Chart System (ECS) or Electronic Chart Display Information System (ECDIS).
<table>
<thead>
<tr>
<th>VBAP Standard</th>
<th>ECOPRO Standard</th>
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</thead>
<tbody>
<tr>
<td><strong>32. Ballast Water Management</strong></td>
<td><strong>32. Ballast Water Management</strong></td>
</tr>
<tr>
<td>Guidelines for ballast water management:</td>
<td>The ECOPRO standard is identical to the VBAP standard.</td>
</tr>
<tr>
<td>a. Written ballast water management procedures and policies are contained in the Shipboard Management System (SMS); and</td>
<td></td>
</tr>
<tr>
<td>b. Ballast water management training is provided for all shipboard officers involved in ballast operations.</td>
<td></td>
</tr>
<tr>
<td><strong>33. Waste Oil and Oily Water Management System</strong></td>
<td><strong>33. Waste Oil Management</strong></td>
</tr>
<tr>
<td>Guidelines for the Waste Oil Management System:</td>
<td>Only qualified officers will supervise operation of the OWS and incinerator.</td>
</tr>
<tr>
<td>a. Waste oil management procedures are contained in the vessel’s Shipboard Management System (SMS);</td>
<td><strong>AND</strong></td>
</tr>
<tr>
<td>b. Training in waste oil and oily water handling procedures is provided for all engineering officers and all unlicensed crew members involved in the handling waste oil or oily water (See VBAP Standard 19). This training includes the operation and maintenance of the oily water separator and incinerator and log entries related to waste oil and oily water;</td>
<td>Company has an internal audit system in place to verify the crew is following CFR and MARPOL regulations regarding waste oil management.</td>
</tr>
<tr>
<td>c. Written procedures or checklists for waste oil and oily water management are readily available;</td>
<td></td>
</tr>
<tr>
<td>d. The oily water separator (OWS) and incinerator are maintained in accordance with manufacturer’s recommendations and a record of maintenance is maintained, checked, and verified by the Chief Engineer;</td>
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<tr>
<td>e. If a facility is available for oily water waste disposal, company has a policy to use this facility; and</td>
<td></td>
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<tr>
<td>f. Overboard discharge valve is secured and controlled by Chief Engineer.</td>
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<tr>
<td><strong>VBAP Standard</strong></td>
<td><strong>ECOPRO Standard</strong></td>
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</tr>
<tr>
<td><strong>34. Automated Identification System (AIS)</strong></td>
<td><strong>34. Automated Identification System (AIS)</strong></td>
</tr>
<tr>
<td>Guidelines for the Automated Identification System (AIS):</td>
<td>The ECOPRO standard is identical to the VBAP standard.</td>
</tr>
<tr>
<td>a. AIS equipment is calibrated, tested, and maintained according to the manufacturer’s recommendations and regulatory requirements;</td>
<td></td>
</tr>
<tr>
<td>b. Maintain a record showing dates and descriptions of AIS calibration, testing, maintenance, and operation;</td>
<td></td>
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<tr>
<td>c. Pre-departure and pre-arrival checklists include checking AIS for proper operation and inputs; and</td>
<td></td>
</tr>
<tr>
<td>d. After anchoring or mooring, AIS is adjusted to transmit the correct status.</td>
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</tr>
<tr>
<td><strong>35. Spill Preparedness Forms and Checklists</strong></td>
<td><strong>37. Spill Preparedness Forms and Checklists</strong></td>
</tr>
<tr>
<td>Emergency oil spill response procedures and checklists are posted or readily available on board all tank vessels.</td>
<td>All Qualified Individuals or company’s designated individual are trained in basic ICS procedures, such as filling out ICS Form 201 Incident Briefing before the spill response team arrives, when the spill occurs in Washington state waters. <strong>AND</strong> An ICS 201 form is used at every deployment drill and spill when the plan holder is present.</td>
</tr>
</tbody>
</table>

**END**