

**USCG Marine Safety Center
Oceangoing Tank Vessel
Tank Group Characteristics Loading Form**

1. Vessel Information

Vessel Name: _____ Official Number: _____
 Shipyard: _____ Hull Number: _____
 Operating Subchapter (D, O, etc.): _____

2. Bulk Liquid Cargo Authority

(MSC-3 use only)

46 CFR Subchapter D Authority: _____ Highest Grade: _____ Capacity: _____ (bbls)
 46 CFR Subchapter O Authority: _____ Part 151: _____ Part 153: _____ Part 154: _____

3. Cargo Tank Group Characteristics

(complete the following section for each tank group by filling in the requested information or choosing the appropriate characteristics)

3.a. Tank Group Designation (A, B, etc.): _____

3.b. Tanks in tank group (#1P, #2S, etc.): _____

Cargo Information

3.c. Flammability Grade: A B C D E none
(46 CFR 30.10-15 and 30.10-22)

3.d. Maximum Cargo Density: _____ (lbs/gal)

3.e. NLS Category Authorized: A B C D III
(46 CFR 153.470 - .491)

3.f. Other MARPOL Authority: Annex I Oil-Like Cargoes

Cargo Tanks

3.g. Cargo Containment System: I II III
(46 CFR 153.230 - .232)

3.h. Cargo Tank Vent Height: B/3 4m High Velocity Vents NR
(46 CFR 153.350 - .353)

3.i. Cargo Tank Vent Type: Open Pressure/Vacuum
(46 CFR 153.355)

3.j. Tanks - Gauging Devices: Open Restricted Closed
(46 CFR 153.400 - .407)

Cargo Tank Protection

3.k. Electrical Hazard Group: I-A I-B I-C I-D
 No Electrical equipment in hazardous location

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3. Cargo Tank Group Characteristics *(continued)*

(complete the following section for each tank group by filling in the requested information or choosing the appropriate characteristics)

Cargo Tank Protection *(cont'd)*

3.I. Fire Protection:

Apply to: 46 CFR Subchapter D 46 CFR Subchapter O

System Name: _____

CHUBB National Foam Systems:

CG Universal 6%A	<input type="checkbox"/>	631A	<input type="checkbox"/>	626	<input type="checkbox"/>
CG Universal 6%B	<input type="checkbox"/>	631B	<input type="checkbox"/>		
CG Universal 6%C	<input type="checkbox"/>	631C	<input type="checkbox"/>		

ANSUL:

3X3 ANSUL 16 ANSUL 24

Rockwood Systems:

1888 1889
(non polar) (polar)

3.m. 46 CFR Part 153 Special Design & Material Requirements

(check those requirements that the tank group meets)

46 CFR 153.200 General Requirements

153.236 Prohibited Materials

<input type="checkbox"/>	(a) Aluminum
<input type="checkbox"/>	(b) Copper
<input type="checkbox"/>	(c) Zinc
<input type="checkbox"/>	(d) Magnesium
<input type="checkbox"/>	(e) Lead
<input type="checkbox"/>	(f) Silver
<input type="checkbox"/>	(g) Mercury
<input type="checkbox"/>	All

* **Note:** Check all those which are **not** found in this tank group

153.238 Required Materials

<input type="checkbox"/>	(a) Al, SS or Steel w/tank lining
<input type="checkbox"/>	(b) Al or SS
<input type="checkbox"/>	(c) 304L or 316 SS
<input type="checkbox"/>	(d) Solid Aust SS
<input type="checkbox"/>	(e) SS or Steel w/tank lining
<input type="checkbox"/>	All

* **Note:** Check all those which are found in this tank group

<input type="checkbox"/>	.252 Independent Cargo Tank
<input type="checkbox"/>	.266 Tank Linings

46 CFR 153.300 Cargo Ventilation

<input type="checkbox"/>	.316 Pump room ventilation
<input type="checkbox"/>	.336 Pump room requirement
<input type="checkbox"/>	.355 PV venting system
<input type="checkbox"/>	.372 High vapor pressure reqmt

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3. Cargo Tank Group Characteristics (continued)

(complete the following section for each tank group by filling in the requested information or choosing the appropriate characteristics)

3.n. 46 CFR Part 153 Special Design & Material Requirements (cont'd)

(check those requirements that the tank group meets)

46 CFR 153.400 Cargo Gauging

- | | | |
|--------------------------|------|-------------------------------------|
| <input type="checkbox"/> | .400 | General gauging reqmts |
| <input type="checkbox"/> | .408 | Overflow control |
| <input type="checkbox"/> | | (a) only |
| <input type="checkbox"/> | | all subparagraphs |
| <input type="checkbox"/> | .409 | High level alarms |
| <input type="checkbox"/> | .440 | Temperature sensors |
| <input type="checkbox"/> | | all subparagraphs |
| <input type="checkbox"/> | | (a)(1) Remote thermometer |
| <input type="checkbox"/> | | (a)(2) Remote Secondary Thermometer |
| <input type="checkbox"/> | .488 | High melting point NLS |

46 CFR 153.500 Special Requirements

- | | | | | | |
|--------------------------|------|------------------------|--------------------------|------|----------------------------------|
| <input type="checkbox"/> | .500 | Inert Gas System | <input type="checkbox"/> | .530 | Alkylene Oxides |
| <input type="checkbox"/> | .501 | Dry inert gas | <input type="checkbox"/> | .545 | Liquid Sulfur |
| <input type="checkbox"/> | .515 | Flammable cargoes | <input type="checkbox"/> | .554 | Acids |
| <input type="checkbox"/> | .520 | Carbon Disulfide | <input type="checkbox"/> | | (a) Spray shields |
| <input type="checkbox"/> | .525 | Toxic Cargoes | <input type="checkbox"/> | | (b) Cargo containment separation |
| <input type="checkbox"/> | | (a) Piping | <input type="checkbox"/> | | (c) Leak detection |
| <input type="checkbox"/> | | (b) PV | <input type="checkbox"/> | .555 | Inorganic acids |
| <input type="checkbox"/> | | (c) Pumps | <input type="checkbox"/> | .556 | Sulfuric acid |
| <input type="checkbox"/> | | (d) Heat Transfer | <input type="checkbox"/> | .557 | Hydrochloric acid |
| <input type="checkbox"/> | | (e) Cargo Separation | <input type="checkbox"/> | .558 | Phosphoric acid |
| <input type="checkbox"/> | | (f) Vapor Retention | <input type="checkbox"/> | .559 | Nitric acid |
| <input type="checkbox"/> | | all subparagraphs | <input type="checkbox"/> | .560 | Alkyl (C7-C9) nitrates |
| <input type="checkbox"/> | .526 | Toxic vapor detectors | <input type="checkbox"/> | .602 | Cargoes reactive w/water |
| <input type="checkbox"/> | .527 | Toxic vapor protection | | | |