



United States of America  
Department of Homeland Security  
United States Coast Guard

Certification Date: 11 Sep 2023  
Expiration Date: 11 Sep 2028

# Certificate of Inspection

For ships on international voyages this certificate fulfills the requirements of SOLAS 74 as amended, regulation V/14, for a SAFE MANNING DOCUMENT

Vessel Name

CBC 90

Official Number

1141494

IMO Number

Call Sign

Service

Tank Barge

Hailing Port

NEW ORLEANS, LA

Hull Material

Steel

Horsepower

Propulsion

UNITED STATES

Place Built

JEFFERSONVILLE, IN

Delivery Date

30Jun2003

Keel Laid Date

14Apr2003

Gross Tons

R-735

Net Tons

R-735

DWT

Length

P-250'0"

UNITED STATES

Owner

CANAL BARGE COMPANY INC  
1801 ENGINEERS ROAD  
BELLE CHASSE, LA 70037  
UNITED STATES

Operator

CANAL BARGE COMPANY INC  
1801 ENGINEERS ROAD  
BELLE CHASSE, LA 70037  
UNITED STATES

This vessel must be manned with the following licensed and unlicensed Personnel. Included in which there must be 0 Certified Lifeboatmen, 0 Certified Tankermen, 0 HSC Type Rating, and 0 GMDSS Operators.

|                            |                      |                              |          |
|----------------------------|----------------------|------------------------------|----------|
| 0 Masters                  | 0 Licensed Mates     | 0 Chief Engineers            | 0 Oilers |
| 0 Chief Mates              | 0 First Class Pilots | 0 First Assistant Engineers  |          |
| 0 Second Mates             | 0 Radio Officers     | 0 Second Assistant Engineers |          |
| 0 Third Mates              | 0 Able Seamen        | 0 Third Assistant Engineers  |          |
| 0 Master First Class Pilot | 0 Ordinary Seamen    | 0 Licensed Engineers         |          |
| 0 Mate First Class Pilots  | 0 Deckhands          | 0 Qualified Member Engineer  |          |

In addition, this vessel may carry 0 Passengers, 0 Other Persons in crew, 0 Persons in addition to crew, and no Others. Total Persons allowed: 0

Route Permitted And Conditions Of Operation:

---Lakes, Bays, and Sounds---

Also, in fair weather only, not more than twelve (12) miles from shore between St. Marks and Carrabelle, Florida.

This vessel has been granted a fresh water service examination interval in accordance with 46 CFR Table 31.10-21(b); if this vessel is operated in salt water more than six (6) months in any twelve (12) month period, the vessel must be inspected using salt water intervals and the cognizant OCMI notified in writing as soon as this change in status occurs.

This tank barge is participating in the Eighth-Ninth Coast Guard District's Tank Barge Streamlined Inspection

\*\*\*SEE NEXT PAGE FOR ADDITIONAL CERTIFICATE INFORMATION\*\*\*

With this Inspection for Certification having been completed at New Orleans, LA, UNITED STATES, the Officer in Charge, Marine Inspection, Sector New Orleans certified the vessel, in all respects, is in conformity with the applicable vessel inspection laws and the rules and regulations prescribed thereunder.

Annual/Periodic/Re-Inspection

| Date         | Zone        | A/P/R | Signature        |
|--------------|-------------|-------|------------------|
| 30 Aug 2024  | Canal Barge | A     | Mitchell P. Hart |
| 16 July 2025 | Canal Barge | P     | Brandon          |
| 28 July 2026 | Canal Barge | A     | Mitchell P. Hart |

This certificate issued by:

J. H. HART COMMANDER, by direction

Officer in Charge, Marine Inspection

Sector New Orleans

Inspection Zone



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Vessel Name: CBC 90  
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IMO Number:  
Call Sign:  
Service: Tank Barge

Hailing Port: NEW ORLEANS, LA  
Hull Material: Steel  
Horsepower:  
Propulsion:  
UNITED STATES

Place Built: JEFFERSONVILLE, IN  
Delivery Date: 30Jun2003  
Keel Laid Date: 14Apr2003  
Gross Tons: R-735  
Net Tons: R-735  
DWT:  
Length: R-200.0  
UNITED STATES

Owner: CANAL BARGE COMPANY INC  
1801 ENGINEERS ROAD  
BELLE CHASSE, LA 70037  
UNITED STATES  
Operator: CANAL BARGE COMPANY INC  
1801 ENGINEERS ROAD  
BELLE CHASSE, LA 70037  
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## Route Permitted And Conditions Of Operation:

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|-------------------------------|-------------|-------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Date                          | Zone        | A/P/R | Signature          |                                                                                                                                                    |
| 20 Aug 2024                   | Canal Barge | A     | <i>[Signature]</i> |                                                                                                                                                    |
| 16 July 2025                  | Canal Barge | P     | <i>[Signature]</i> |                                                                                                                                                    |
|                               |             |       |                    |                                                                                                                                                    |
|                               |             |       |                    |                                                                                                                                                    |



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Official Number: 1141494  
IMO Number:  
Call Sign:  
Service: Tank Barge

Hailing Port: NEW ORLEANS, LA  
UNITED STATES  
Hull Material: Steel  
Horsepower:  
Propulsion:

Place Built: JEFFERSONVILLE, IN  
UNITED STATES  
Delivery Date: 30Jun2003  
Keel Laid Date: 14Apr2003  
Gross Tons: R-735  
Net Tons: R-735  
DWT: I-  
Length: R-200.0  
I-0

Owner: CANAL BARGE COMPANY INC  
1801 ENGINEERS ROAD  
BELLE CHASSE, LA 70037  
UNITED STATES  
Operator: CANAL BARGE COMPANY INC  
1801 ENGINEERS ROAD  
BELLE CHASSE, LA 70037  
UNITED STATES

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| 0 Mate First Class Pilots  | 0 Deckhands          | 0 Qualified Member Engineer  |          |

In addition, this vessel may carry 0 Passengers, 0 Other Persons in crew, 0 Persons in addition to crew, and no Others. Total Persons allowed: 0

Route Permitted And Conditions Of Operation:  
---Lakes, Bays, and Sounds---

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| Annual/Periodic/Re-Inspection |             |       |                               | This certificate issued by:<br>J. H. HART COMMANDER, by direction<br>Officer in Charge, Marine Inspection<br>Sector New Orleans<br>Inspection Zone |
|-------------------------------|-------------|-------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Date                          | Zone        | A/P/R | Signature                     |                                                                                                                                                    |
| 30 Aug 2024                   | Canal Barge | A     | <i>Matthew P. [Signature]</i> |                                                                                                                                                    |
|                               |             |       |                               |                                                                                                                                                    |
|                               |             |       |                               |                                                                                                                                                    |
|                               |             |       |                               |                                                                                                                                                    |



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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                   |                                    |                                                                                                                                   |                                      |                              |                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------|----------------------------------------|
| Vessel Name<br><b>CBC 90</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                   | Official Number<br><b>1141494</b>  | IMO Number                                                                                                                        | Call Sign                            | Service<br><b>Tank Barge</b> |                                        |
| Hailing Port<br><b>NEW ORLEANS, LA</b><br><b>UNITED STATES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                   | Hull Material<br><b>Steel</b>      | Horsepower                                                                                                                        | Propulsion                           |                              |                                        |
| Place Built<br><b>JEFFERSONVILLE, IN</b><br><b>UNITED STATES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Delivery Date<br><b>30Jun2003</b> | Keel Laid Date<br><b>14Apr2003</b> | Gross Tons<br><b>R-735</b>                                                                                                        | Net Tons<br><b>R-735</b>             | DWT                          | Length<br><b>R-200.0</b><br><b>I-0</b> |
| Owner<br><b>CANAL BARGE COMPANY INC</b><br><b>1801 ENGINEERS ROAD</b><br><b>BELLE CHASSE, LA 70037</b><br><b>UNITED STATES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                   |                                    | Operator<br><b>CANAL BARGE COMPANY INC</b><br><b>1801 ENGINEERS ROAD</b><br><b>BELLE CHASSE, LA 70037</b><br><b>UNITED STATES</b> |                                      |                              |                                        |
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| 0 Masters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   | 0 Licensed Mates                   | 0 Chief Engineers                                                                                                                 | 0 Oilers                             |                              |                                        |
| 0 Chief Mates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   | 0 First Class Pilots               | 0 First Assistant Engineers                                                                                                       |                                      |                              |                                        |
| 0 Second Mates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                   | 0 Radio Officers                   | 0 Second Assistant Engineers                                                                                                      |                                      |                              |                                        |
| 0 Third Mates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   | 0 Able Seamen                      | 0 Third Assistant Engineers                                                                                                       |                                      |                              |                                        |
| 0 Master First Class Pilot                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                   | 0 Ordinary Seamen                  | 0 Licensed Engineers                                                                                                              |                                      |                              |                                        |
| 0 Mate First Class Pilots                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   | 0 Deckhands                        | 0 Qualified Member Engineer                                                                                                       |                                      |                              |                                        |
| In addition, this vessel may carry 0 Passengers, 0 Other Persons in crew, 0 Persons in addition to crew, and no Others. Total<br>Persons allowed: 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                   |                                    |                                                                                                                                   |                                      |                              |                                        |
| Route Permitted And Conditions Of Operation:<br><b>---Lakes, Bays, and Sounds---</b><br><br>Also, in fair weather only, not more than twelve (12) miles from shore between St. Marks and Carrabelle,<br>Florida.<br><br>This vessel has been granted a fresh water service examination interval in accordance with 46 CFR Table<br>31.10-21(b); if this vessel is operated in salt water more than six (6) months in any twelve (12) month period,<br>the vessel must be inspected using salt water intervals and the cognizant OCMI notified in writing as soon as<br>this change in status occurs.<br><br>This tank barge is participating in the Eighth-Ninth Coast Guard District's Tank Barge Streamlined Inspection<br><br><b>***SEE NEXT PAGE FOR ADDITIONAL CERTIFICATE INFORMATION***</b> |                                   |                                    |                                                                                                                                   |                                      |                              |                                        |
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| Annual/Periodic/Re-Inspection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                                    |                                                                                                                                   | This certificate issued by:          |                              |                                        |
| Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Zone                              | A/P/R                              | Signature                                                                                                                         | J. H. HART COMMANDER, by direction   |                              |                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                   |                                    |                                                                                                                                   | Officer in Charge, Marine Inspection |                              |                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                   |                                    |                                                                                                                                   | Sector New Orleans                   |                              |                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                   |                                    |                                                                                                                                   | Inspection Zone                      |                              |                                        |



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# Certificate of Inspection

Vessel Name: CBC 90

Program (TBSIP). Inspection activities aboard this barge shall be conducted in accordance with its Tank Barge Action Plan. Inspection issues concerning this barge should be directed to New Orleans OCMI.

## ---Hull Exams---

| Exam Type          | Next Exam | Last Exam | Prior Exam |
|--------------------|-----------|-----------|------------|
| DryDock            | 31Aug2033 | 18Aug2023 | 01Aug2013  |
| Internal Structure | 31Jul2028 | 18Aug2023 | 27Jul2018  |

## --- Liquid/Gas/Solid Cargo Authority/Conditions ---

Authorization: FLAMMABLE/COMBUSTIBLE LIQUIDS AND SPECIFIED HAZARDOUS CARGOES

| Total Capacity | Units   | Highest Grade Type | Part151 Regulated | Part153 Regulated | Part154 Regulated |
|----------------|---------|--------------------|-------------------|-------------------|-------------------|
| 11066          | Barrels | A                  | Yes               | No                | No                |

### \*Hazardous Bulk Solids Authority\*

Not Authorized

### \*Loading Constraints - Structural\*

| Tank Number | Max Cargo Weight per Tank (short tons) | Maximum Density (lbs/gal) |
|-------------|----------------------------------------|---------------------------|
| 1           | 637                                    | 13.6                      |
| 2           | 583                                    | 13.6                      |
| 3           | 583                                    | 13.6                      |

### \*Loading Constraints - Stability\*

| Hull Type | Maximum Load (short tons) | Maximum Draft (ft/in) | Max Density (lbs/gal) | Route Description |
|-----------|---------------------------|-----------------------|-----------------------|-------------------|
| III       | 1717                      | 10ft 3in              | 13.6                  | R,LBS             |

### \*Conditions Of Carriage\*

Only those specified hazardous cargoes named in the vessel's Cargo Authority Attachment (CAA), Serial C2-0504678, dated June 14, 2005 and Grade "A" and lower cargoes may be carried, and then only in the tanks indicated.

Per 46 CFR 150.130, the Person in Charge of the vessel is responsible for ensuring that the compatibility requirements of 46 CFR 150 are met. Cargoes must be checked for compatibility using figures, tables and appendices of 46 CFR 150 in conjunction with the compatibility group numbers from the "COMPAT GRP" column listed in the vessel's CAA.

When the vessel is carrying cargoes containing greater than 0.5% benzene, the Person In Charge is responsible for ensuring the provisions of 46 CFR 197, Subpart C are applied.

### \*Stability and Trim\*

Cargo tanks must be loaded uniformly whenever a 46 CFR Subchapter "O" cargo is carried; for trim purposes, the weight of cargo in each tank may exceed the uniformly loaded tank cargo weight by at most 5 percent.

The maximum density of cargo which may be filled to the tank top is 8.745 lbs/gal. Cargoes with higher densities, up to 13.6 lbs/gal, may be carried as slack loads, but shall not exceed the tank weight limits as listed above.

### \*Vapor Control Authorization\*

In accordance with 46 CFR 39, excluding 46 CFR 39.4000, this vessel's vapor control system has been inspected to the plans approved by Marine Safety Center letter Serial C2-#0504678 dated June 14, 2005 and the list of authorized cargoes on the CAA, Serial C2-#0504678 dated June 14, 2005 and found acceptable for collection of bulk liquid cargo vapors annotated with



# Certificate of Inspection

Vessel Name: CBC 90

"Yes" in the CAA's VCS column.

## --- Inspection Status ---

### \*Cargo Tanks\*

| Tank Id | Internal Exam |           |           | External Exam |      |      |
|---------|---------------|-----------|-----------|---------------|------|------|
|         | Previous      | Last      | Next      | Previous      | Last | Next |
| 1       | 01Aug2013     | 18Aug2023 | 31Aug2033 | -             | -    | -    |
| 2       | 01Aug2013     | 18Aug2023 | 31Aug2033 | -             | -    | -    |
| 3       | 01Aug2013     | 18Aug2023 | 31Aug2033 | -             | -    | -    |

| Tank Id | Safety Valves | Hydro Test |      |      |
|---------|---------------|------------|------|------|
|         |               | Previous   | Last | Next |
| 1       | -             | -          | -    | -    |
| 2       | -             | -          | -    | -    |
| 3       | -             | -          | -    | -    |

## ---Conditional Portable Fire Extinguisher Requirements---

Required Only During Transfer of Cargo or Operation of Barge Machinery

## --- Fire Fighting Equipment ---

### \*Fire Extinguishers - Hand portable and semi-portable\*

| Quantity | Class Type |
|----------|------------|
| 2        | 40-B       |

\*\*\*END\*\*\*



Department of Homeland Security  
United States Coast Guard

Serial #: C2-0504678  
Generated: 14-Jun-05

# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: **CBC 90**

Official #: **1141494**

Shipyard: **Jeffboat**

Hull #: **03-2972**

### 46 CFR 151 Tank Group Characteristics

| Tank Group Information |                | Cargo Identification |        |       | Hull Type | Cargo Seg Tank | Tanks            |      |        | Cargo Transfer |      | Environmental Control |                | Fire Protection Provided | Special Requirements                                        |                                                                            | Elec Haz | Temp. Pres. |
|------------------------|----------------|----------------------|--------|-------|-----------|----------------|------------------|------|--------|----------------|------|-----------------------|----------------|--------------------------|-------------------------------------------------------------|----------------------------------------------------------------------------|----------|-------------|
| Tnk Grp                | Tanks in Group | Density              | Press. | Temp. |           |                | Type             | Vent | Gauge  | Pipe Class     | Cont | Tanks                 | Handling Space |                          | General                                                     | Materials of Construction                                                  |          |             |
| A                      | #1-#3 P/S      |                      | Atmos. | Amb.  | III       | 1li<br>2li     | Integral Gravity | PV   | Closed | II             | G-1  | NR                    | NA             | Portable                 | .50-60, .50-70(a), .50-70(b), .50-73, .50-81(a), .50-81(b), | .55-1(b), (c), (e), (f), (h), (j), .56-1(a), (b), (c), (d), (e), (f), (g), | NR       | No          |

- Notes: 1. Under Environmental Control, Tanks, NR means that the tank group is suitable only for those cargoes which require no environmental control in the cargo tanks.
2. Under Environmental Control, Handling Space, NR means that the tank group is suitable only for those cargoes which require no environmental control in the cargo handling space. NA means that the vessel does not have a cargo control space, and this requirement is not applied.
3. Under Electrical Hazard Class, NA means that the tank group is suitable only for those cargoes which have no electrical hazard class requirement. NR means that the vessel has no electrical equipment located in a hazardous location.

### List of Authorized Cargoes

| Cargo Identification |              |                 |                |       |              |               | Conditions of Carriage |                 |                                                                          |  |
|----------------------|--------------|-----------------|----------------|-------|--------------|---------------|------------------------|-----------------|--------------------------------------------------------------------------|--|
| Name                 | Chem<br>Code | Compat<br>Group | Sub<br>Chapter | Grade | Hull<br>Type | Tank<br>Group | Vapor Recovery         |                 | Special Requirements in 46 CFR 151<br>General and Mat'ls of Construction |  |
|                      |              |                 |                |       |              |               | App'd<br>(Y or N)      | VCS<br>Category |                                                                          |  |

#### Authorized Subchapter O Cargoes

|                                                                                  |     |                  |   |     |     |   |     |     |                                     |  |
|----------------------------------------------------------------------------------|-----|------------------|---|-----|-----|---|-----|-----|-------------------------------------|--|
| Acetonitrile                                                                     | ATN | 37               | O | C   | III | A | Yes | 3   | No                                  |  |
| Alkyl(C7-C9) nitrates                                                            | AKN | 34 <sup>2</sup>  | O | NA  | III | A | No  | N/A | .50-81, .50-86                      |  |
| Aminoethylethanolamine                                                           | AEE | 8                | O | E   | III | A | Yes | 1   | .55-1(b)                            |  |
| Ammonium bisulfite solution (70% or less)                                        | ABX | 43 <sup>2</sup>  | O | NA  | III | A | No  | N/A | .50-73, .56-1(a), (b), (c)          |  |
| Ammonium hydroxide (28% or less NH3)                                             | AMH | 6                | O | NA  | III | A | No  | N/A | .56-1(a), (b), (c), (f), (g)        |  |
| Benzene                                                                          | BNZ | 32               | O | C   | III | A | Yes | 1   | .50-60                              |  |
| Benzene or hydrocarbon mixtures (having 10% Benzene or more)                     | BHB | 32 <sup>2</sup>  | O | C   | III | A | Yes | 1   | .50-60                              |  |
| Benzene or hydrocarbon mixtures (containing Acetylene and 10% Benzene or more)   | BHA | 32 <sup>2</sup>  | O | C   | III | A | Yes | 1   | .50-60, .56-1(b), (d), (f), (g)     |  |
| Benzene, Toluene, Xylene mixtures (10% Benzene or more)                          | BTX | 32               | O | B/C | III | A | Yes | 1   | .50-60                              |  |
| Butyl acrylate (all isomers)                                                     | BAR | 14               | O | D   | III | A | Yes | 2   | .50-70(a), .50-81(a), (b)           |  |
| Butyl methacrylate                                                               | BMH | 14               | O | D   | III | A | Yes | 2   | .50-70(a), .50-81(a), (b)           |  |
| Butyraldehyde (all isomers)                                                      | BAE | 19               | O | C   | III | A | Yes | 1   | .55-1(h)                            |  |
| Carbon tetrachloride                                                             | CBT | 36               | O | NA  | III | A | No  | N/A | No                                  |  |
| Caustic potash solution                                                          | CPS | 5 <sup>2</sup>   | O | NA  | III | A | No  | N/A | .50-73, .55-1(j)                    |  |
| Caustic soda solution                                                            | CSS | 5 <sup>2</sup>   | O | NA  | III | A | No  | N/A | .50-73, .55-1(j)                    |  |
| Chlorobenzene                                                                    | CRB | 36               | O | D   | III | A | Yes | 1   | No                                  |  |
| Chloroform                                                                       | CRF | 36               | O | E   | III | A | Yes | 3   | No                                  |  |
| Coal tar naphtha solvent                                                         | NCT | 33               | O | D   | III | A | Yes | 1   | .50-73                              |  |
| Creosote                                                                         | CCW | 21 <sup>2</sup>  | O | E   | III | A | Yes | 1   | No                                  |  |
| Cresols (all isomers)                                                            | CRS | 21               | O | E   | III | A | Yes | 1   | No                                  |  |
| Cresylate spent caustic                                                          | CSC | 5                | O | NA  | III | A | No  | N/A | .50-73, .55-1(b)                    |  |
| Cresylic acid tar                                                                | CRX |                  | O | E   | III | A | Yes | 1   | .55-1(f)                            |  |
| Crude hydrocarbon feedstock (containing Butyraldehydes and Ethylpropyl acrolein) | CHG |                  | O | C   | III | A | No  | N/A | No                                  |  |
| Cyclohexanone                                                                    | CCH | 18               | O | D   | III | A | Yes | 1   | .56-1(a), (b)                       |  |
| Cyclohexanone, Cyclohexanol mixture                                              | CYX | 18 <sup>2</sup>  | O | E   | III | A | Yes | 1   | .56-1(b)                            |  |
| Cyclohexylamine                                                                  | CHA | 7                | O | D   | III | A | Yes | 1   | .56-1(a), (b), (c), (d)             |  |
| Cyclopentadiene, Styrene, Benzene mixture                                        | CSB | 30               | O | D   | III | A | Yes | 1   | .50-60, .56-1(b)                    |  |
| Iso-Decyl acrylate                                                               | IAI | 14               | O | E   | III | A | Yes | 2   | .50-70(a), .50-81(a), (b), .55-1(c) |  |
| Dichlorobenzene (all isomers)                                                    | DBX | 36               | O | E   | III | A | Yes | 3   | .56-1(a), (b)                       |  |
| 1,1-Dichloroethane                                                               | DCH | 36               | O | C   | III | A | Yes | 1   | No                                  |  |
| Dichloromethane                                                                  | DCM | 36               | O | NA  | III | A | No  | N/A | No                                  |  |
| 2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution                     | DDE | 43               | O | E   | III | A | No  | N/A | .56-1(a), (b), (c), (d)             |  |
| 2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution                      | DAD | 0 <sup>1,2</sup> | O | A   | III | A | No  | N/A | .56-1(a), (b), (c), (d)             |  |
| 2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution (70% or less)        | DDA |                  | O | LFG | III | A | No  | N/A | .55-1(b)                            |  |
| 2,4-Dichlorophenoxyacetic acid, trisopropanolamine salt solution                 | DTI | 43 <sup>2</sup>  | O | E   | III | A | No  | N/A | .56-1(a), (b), (c), (d)             |  |
| 1,1-Dichloropropane                                                              | DPB | 36               | O | C   | III | A | Yes | 3   | No                                  |  |

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Department of Homeland Security  
United States Coast Guard

Serial #: C2-0504678

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# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: CBC 90

Official #: 1141494

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Shipyard: Jeffboat

Hull #: 03-2972

| Cargo Identification                                                    |           |                 |             |       |           | Conditions of Carriage |                |              |                                                                        |
|-------------------------------------------------------------------------|-----------|-----------------|-------------|-------|-----------|------------------------|----------------|--------------|------------------------------------------------------------------------|
| Name                                                                    | Chem Code | Compat Group    | Sub Chapter | Grade | Hull Type | Tank Group             | Vapor Recovery |              | Special Requirements in 46 CFR 151 General and Mat'l's of Construction |
|                                                                         |           |                 |             |       |           |                        | App'd (Y or N) | VCS Category |                                                                        |
| Diethylene glycol                                                       | DEG       | 40 <sup>2</sup> | D           | E     |           | A                      | Yes            | 1            |                                                                        |
| Diisobutylene                                                           | DBL       | 30              | D           | C     |           | A                      | Yes            | 1            |                                                                        |
| Diisobutyl ketone                                                       | DIK       | 18              | D           | D     |           | A                      | Yes            | 1            |                                                                        |
| Diisopropylbenzene (all isomers)                                        | DIX       | 32              | D           | E     |           | A                      | Yes            | 1            |                                                                        |
| Dimethyl phthalate                                                      | DTL       | 34              | D           | E     |           | A                      | Yes            | 1            |                                                                        |
| Diethyl phthalate                                                       | DOP       | 34              | D           | E     |           | A                      | Yes            | 1            |                                                                        |
| Dipentene                                                               | DPN       | 30              | D           | D     |           | A                      | Yes            | 1            |                                                                        |
| Diphenyl                                                                | DIL       | 32              | D           | D/E   |           | A                      | Yes            | 1            |                                                                        |
| Diphenyl, Diphenyl ether mixtures                                       | DDO       | 33              | D           | E     |           | A                      | Yes            | 1            |                                                                        |
| Diphenyl ether                                                          | DPE       | 41              | D           | (E)   |           | A                      | Yes            | 1            |                                                                        |
| Dipropylene glycol                                                      | DPG       | 40              | D           | E     |           | A                      | Yes            | 1            |                                                                        |
| Distillates: Flashed feed stocks                                        | DFF       | 33              | D           | E     |           | A                      | Yes            | 1            |                                                                        |
| Distillates: Straight run                                               | DSR       | 33              | D           | E     |           | A                      | Yes            | 1            |                                                                        |
| Dodecene (all isomers)                                                  | DOZ       | 30              | D           | D     |           | A                      | Yes            | 1            |                                                                        |
| Dodecylbenzene, see Alkyl(C9+)benzenes                                  | DDB       | 32              | D           | E     |           | A                      | Yes            | 1            |                                                                        |
| 2-Ethoxyethyl acetate                                                   | EEA       | 34              | D           | D     |           | A                      | Yes            | 1            |                                                                        |
| Ethoxy triglycol (crude)                                                | ETG       | 40              | D           | E     |           | A                      | Yes            | 1            |                                                                        |
| Ethyl acetate                                                           | ETA       | 34              | D           | C     |           | A                      | Yes            | 1            |                                                                        |
| Ethyl acetoacetate                                                      | EAA       | 34              | D           | E     |           | A                      | Yes            | 1            |                                                                        |
| Ethyl alcohol                                                           | EAL       | 20 <sup>2</sup> | D           | C     |           | A                      | Yes            | 1            |                                                                        |
| Ethylbenzene                                                            | ETB       | 32              | D           | C     |           | A                      | Yes            | 1            |                                                                        |
| Ethyl butanol                                                           | EBT       | 20              | D           | D     |           | A                      | Yes            | 1            |                                                                        |
| Ethyl tert-butyl ether                                                  | EBE       | 41              | D           | C     |           | A                      | Yes            | 1            |                                                                        |
| Ethyl butyrate                                                          | EBR       | 34              | D           | D     |           | A                      | Yes            | 1            |                                                                        |
| Ethyl cyclohexane                                                       | ECY       | 31              | D           | D     |           | A                      | Yes            | 1            |                                                                        |
| Ethylene glycol                                                         | EGL       | 20 <sup>2</sup> | D           | E     |           | A                      | Yes            | 1            |                                                                        |
| Ethylene glycol butyl ether acetate                                     | EMA       | 34              | D           | E     |           | A                      | Yes            | 1            |                                                                        |
| Ethylene glycol diacetate                                               | EGY       | 34              | D           | E     |           | A                      | Yes            | 1            |                                                                        |
| Ethylene glycol phenyl ether                                            | EPE       | 40              | D           | E     |           | A                      | Yes            | 1            |                                                                        |
| Ethyl-3-ethoxypropionate                                                | EEP       | 34              | D           | E     |           | A                      | Yes            | 1            |                                                                        |
| 2-Ethylhexanol                                                          | EHX       | 20              | D           | E     |           | A                      | Yes            | 1            |                                                                        |
| Ethyl propionate                                                        | EPR       | 34              | D           | C     |           | A                      | Yes            | 1            |                                                                        |
| Ethyl toluene                                                           | ETE       | 32              | D           | E     |           | A                      | Yes            | 1            |                                                                        |
| Formamide                                                               | FAM       | 10              | D           | E     |           | A                      | Yes            | 1            |                                                                        |
| Furfuryl alcohol                                                        | FAL       | 20 <sup>2</sup> | D           | E     |           | A                      | Yes            | 1            |                                                                        |
| Gasoline blending stocks: Alkylates                                     | GAK       | 33              | D           | A/C   |           | A                      | Yes            | 1            |                                                                        |
| Gasoline blending stocks: Reformates                                    | GRF       | 33              | D           | A/C   |           | A                      | Yes            | 1            |                                                                        |
| Gasolines: Automotive (containing not over 4.23 grams lead per gallon)  | GAT       | 33              | D           | C     |           | A                      | Yes            | 1            |                                                                        |
| Gasolines: Aviation (containing not over 4.86 grams of lead per gallon) | GAV       | 33              | D           | C     |           | A                      | Yes            | 1            |                                                                        |
| Gasolines: Casinghead (natural)                                         | GCS       | 33              | D           | A/C   |           | A                      | Yes            | 1            |                                                                        |
| Gasolines: Polymer                                                      | GPL       | 33              | D           | A/C   |           | A                      | Yes            | 1            |                                                                        |
| Gasolines: Straight run                                                 | GSR       | 33              | D           | A/C   |           | A                      | Yes            | 1            |                                                                        |
| Glycerine                                                               | GCR       | 20 <sup>2</sup> | D           | E     |           | A                      | Yes            | 1            |                                                                        |
| Heptane (all isomers), see Alkanes (C6-C9) (all isomers)                | HMX       | 31              | D           | C     |           | A                      | Yes            | 1            |                                                                        |
| Heptanoic acid                                                          | HEP       | 4               | D           | E     |           | A                      | Yes            | 1            |                                                                        |
| Heptanol (all isomers)                                                  | HTX       | 20              | D           | D/E   |           | A                      | Yes            | 1            |                                                                        |
| Heptene (all isomers)                                                   | HPX       | 30              | D           | C     |           | A                      | Yes            | 2            |                                                                        |
| Heptyl acetate                                                          | HPE       | 34              | D           | D     |           | A                      | Yes            | 1            |                                                                        |
| Hexane (all isomers), see Alkanes (C6-C9)                               | HXS       | 31 <sup>2</sup> | D           | B/C   |           | A                      | Yes            | 1            |                                                                        |
| Hexanoic acid                                                           | HXO       | 4               | D           | E     |           | A                      | Yes            | 1            |                                                                        |
| Hexanol                                                                 | HXN       | 20              | D           | D     |           | A                      | Yes            | 1            |                                                                        |
| Hexene (all isomers)                                                    | HEX       | 30              | D           | C     |           | A                      | Yes            | 2            |                                                                        |

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Department of Homeland Security  
United States Coast Guard

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# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: **CBC 90**

Official #: 1141494

Shipyard: Jeffboat

Hull #: 03-2972

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| Cargo Identification                                    |           |                 |             |       |           | Conditions of Carriage |                |              |                                                                      |
|---------------------------------------------------------|-----------|-----------------|-------------|-------|-----------|------------------------|----------------|--------------|----------------------------------------------------------------------|
| Name                                                    | Chem Code | Compat Group    | Sub Chapter | Grade | Hull Type | Tank Group             | Vapor Recovery |              | Special Requirements in 46 CFR 151 General and Mat's of Construction |
|                                                         |           |                 |             |       |           |                        | App'd (Y or N) | VCS Category |                                                                      |
| Hexylene glycol                                         | HXG       | 20              | D           | E     |           | A                      | Yes            | 1            |                                                                      |
| Isophorone                                              | IPH       | 18 <sup>2</sup> | D           | E     |           | A                      | Yes            | 1            |                                                                      |
| Jet fuel: JP-4                                          | JPF       | 33              | D           | E     |           | A                      | Yes            | 1            |                                                                      |
| Jet fuel: JP-5 (kerosene, heavy)                        | JPV       | 33              | D           | D     |           | A                      | Yes            | 1            |                                                                      |
| Kerosene                                                | KRS       | 33              | D           | D     |           | A                      | Yes            | 1            |                                                                      |
| Methyl acetate                                          | MTT       | 34              | D           | D     |           | A                      | Yes            | 1            |                                                                      |
| Methyl alcohol                                          | MAL       | 20 <sup>2</sup> | D           | C     |           | A                      | Yes            | 1            |                                                                      |
| Methylamyl acetate                                      | MAC       | 34              | D           | D     |           | A                      | Yes            | 1            |                                                                      |
| Methylamyl alcohol                                      | MAA       | 20              | D           | D     |           | A                      | Yes            | 1            |                                                                      |
| Methyl tert-butyl ether                                 | MBE       | 41 <sup>2</sup> | D           | C     |           | A                      | Yes            | 1            |                                                                      |
| Methyl butyl ketone                                     | MBK       | 18              | D           | C     |           | A                      | Yes            | 1            |                                                                      |
| Methyl butyrate                                         | MBU       | 34              | D           | C     |           | A                      | Yes            | 1            |                                                                      |
| Methyl ethyl ketone                                     | MEK       | 18 <sup>2</sup> | D           | C     |           | A                      | Yes            | 1            |                                                                      |
| Methyl heptyl ketone                                    | MHK       | 18              | D           | D     |           | A                      | Yes            | 1            |                                                                      |
| Methyl isobutyl ketone                                  | MIK       | 18 <sup>2</sup> | D           | C     |           | A                      | Yes            | 1            |                                                                      |
| Methyl naphthalene (molten)                             | MNA       | 32              | D           | E     |           | A                      | Yes            | 1            |                                                                      |
| Mineral spirits                                         | MNS       | 33              | D           | D     |           | A                      | Yes            | 1            |                                                                      |
| Myrcene                                                 | MRE       | 30              | D           | D     |           | A                      | Yes            | 1            |                                                                      |
| Naphtha: Heavy                                          | NAG       | 33              | D           | #     |           | A                      | Yes            | 1            |                                                                      |
| Naphtha: Petroleum                                      | PTN       | 33              | D           | #     |           | A                      | Yes            | 1            |                                                                      |
| Naphtha: Solvent                                        | NSV       | 33              | D           | D     |           | A                      | Yes            | 1            |                                                                      |
| Naphtha: Stoddard solvent                               | NSS       | 33              | D           | D     |           | A                      | Yes            | 1            |                                                                      |
| Naphtha: Varnish makers and painters (75%)              | NVM       | 33              | D           | C     |           | A                      | Yes            | 1            |                                                                      |
| Nonane (all isomers), see Alkanes (C6-C9)               | NAX       | 31              | D           | D     |           | A                      | Yes            | 1            |                                                                      |
| Nonene (all isomers)                                    | NON       | 30              | D           | D     |           | A                      | Yes            | 2            |                                                                      |
| Nonyl alcohol (all isomers)                             | NNS       | 20 <sup>2</sup> | D           | E     |           | A                      | Yes            | 1            |                                                                      |
| Octane (all isomers), see Alkanes (C6-C9)               | OAX       | 31              | D           | C     |           | A                      | Yes            | 1            |                                                                      |
| Octanoic acid (all isomers)                             | OAY       | 4               | D           | E     |           | A                      | Yes            | 1            |                                                                      |
| Octanol (all isomers)                                   | OCX       | 20 <sup>2</sup> | D           | E     |           | A                      | Yes            | 1            |                                                                      |
| Octene (all isomers)                                    | OTX       | 30              | D           | C     |           | A                      | Yes            | 2            |                                                                      |
| Oil, fuel: No. 2                                        | OTW       | 33              | D           | D/E   |           | A                      | Yes            | 1            |                                                                      |
| Oil, fuel: No. 4                                        | OFR       | 33              | D           | D/E   |           | A                      | Yes            | 1            |                                                                      |
| Oil, fuel: No. 5                                        | OFV       | 33              | D           | D/E   |           | A                      | Yes            | 1            |                                                                      |
| Oil, fuel: No. 6                                        | OSX       | 33              | D           | E     |           | A                      | Yes            | 1            |                                                                      |
| Oil, misc: Crude                                        | OIL       | 33              | D           | C/D   |           | A                      | Yes            | 1            |                                                                      |
| Oil, misc: Diesel                                       | ODS       | 33              | D           | D/E   |           | A                      | Yes            | 1            |                                                                      |
| Oil, misc: Lubricating                                  | OLB       | 33              | D           | E     |           | A                      | Yes            | 1            |                                                                      |
| Oil, misc: Turbine                                      | OTB       | 33              | D           | E     |           | A                      | Yes            | 1            |                                                                      |
| alpha-Pinene                                            | PIO       | 30              | D           | D     |           | A                      | Yes            | 1            |                                                                      |
| beta-Pinene                                             | PIP       | 30              | D           | D     |           | A                      | Yes            | 1            |                                                                      |
| Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether         | PAG       | 40              | D           | E     |           | A                      | Yes            | 1            |                                                                      |
| Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether acetate | PAF       | 34              | D           | E     |           | A                      | Yes            | 1            |                                                                      |
| Polybutene                                              | PLB       | 30              | D           | E     |           | A                      | Yes            | 1            |                                                                      |
| Polypropylene glycol                                    | PGC       | 40              | D           | E     |           | A                      | Yes            | 1            |                                                                      |
| iso-Propyl acetate                                      | IAC       | 34              | D           | C     |           | A                      | Yes            | 1            |                                                                      |
| n-Propyl acetate                                        | PAT       | 34              | D           | C     |           | A                      | Yes            | 1            |                                                                      |
| iso-Propyl alcohol                                      | IPA       | 20 <sup>2</sup> | D           | C     |           | A                      | Yes            | 1            |                                                                      |
| n-Propyl alcohol                                        | PAL       | 20 <sup>2</sup> | D           | C     |           | A                      | Yes            | 1            |                                                                      |
| Propylbenzene (all isomers)                             | PBY       | 32              | D           | D     |           | A                      | Yes            | 1            |                                                                      |
| iso-Propylcyclohexane                                   | IPX       | 31              | D           | D     |           | A                      | Yes            | 1            |                                                                      |
| Propylene glycol                                        | PPG       | 20 <sup>2</sup> | D           | E     |           | A                      | Yes            | 1            |                                                                      |
| Propylene glycol methyl ether acetate                   | PGN       | 34              | D           | D     |           | A                      | Yes            | 1            |                                                                      |

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# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: **CBC 90**  
Official #: 1141494

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Shipyard: Jeffboat  
Hull #: 03-2972

| Cargo Identification                                   |           |              |             |       |           | Conditions of Carriage |                |              |                                                                       |
|--------------------------------------------------------|-----------|--------------|-------------|-------|-----------|------------------------|----------------|--------------|-----------------------------------------------------------------------|
| Name                                                   | Chem Code | Compat Group | Sub Chapter | Grade | Hull Type | Tank Group             | Vapor Recovery |              | Special Requirements in 46 CFR 151 General and Mat'ls of Construction |
|                                                        |           |              |             |       |           |                        | App'd (Y or N) | VCS Category |                                                                       |
| Propylene tetramer                                     | PTT       | 30           | D           | D     |           | A                      | Yes            | 1            |                                                                       |
| Sulfolane                                              | SFL       | 39           | D           | E     |           | A                      | Yes            | 1            |                                                                       |
| Tetraethylene glycol                                   | TTG       | 40           | D           | E     |           | A                      | Yes            | 1            |                                                                       |
| Tetrahydronaphthalene                                  | THN       | 32           | D           | E     |           | A                      | Yes            | 1            |                                                                       |
| Toluene                                                | TOL       | 32           | D           | C     |           | A                      | Yes            | 1            |                                                                       |
| Tricresyl phosphate (less than 1% of the ortho isomer) | TCP       | 34           | D           | E     |           | A                      | Yes            | 1            |                                                                       |
| Triethylbenzene                                        | TEB       | 32           | D           | E     |           | A                      | Yes            | 1            |                                                                       |
| Triethylene glycol                                     | TEG       | 40           | D           | E     |           | A                      | Yes            | 1            |                                                                       |
| Triethyl phosphate                                     | TPS       | 34           | D           | E     |           | A                      | Yes            | 1            |                                                                       |
| Trimethylbenzene (all isomers)                         | TRE       | 32           | D           | {D}   |           | A                      | Yes            | 1            |                                                                       |
| Trixylenyl phosphate                                   | TRP       | 34           | D           | E     |           | A                      | Yes            | 1            |                                                                       |
| Undecene                                               | UDC       | 30           | D           | D/E   |           | A                      | Yes            | 1            |                                                                       |
| 1-Undecyl alcohol                                      | UND       | 20           | D           | E     |           | A                      | Yes            | 1            |                                                                       |
| Xylenes (ortho-, meta-, para-)                         | XLX       | 32           | D           | D     |           | A                      | Yes            | 1            |                                                                       |



# Certificate of Inspection

## Cargo Authority Attachment

Vessel Name: **CBC 90**

Official #: **1141494**

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Shipyard: **Jeffboat**

Hull #: **03-2972**

### Explanation of terms & symbols used in the Table:

#### Cargo Identification:

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name                    | The proper shipping name as listed in 46 CFR Table 30.25-1, 46 CFR Table 151.05, and 46 CFR Part 153 Table 2.                                                                                                                                                                                                                                                                                                                            |
| Chem Code               | The three letter designation assigned to the cargo in the Chemical Hazards Response Information System (CHRIS) Manual.                                                                                                                                                                                                                                                                                                                   |
| none                    | Certain mixtures of cargoes may not have a CHRIS Code assigned.                                                                                                                                                                                                                                                                                                                                                                          |
| Compatibility Group No. | The cargo reactive group number assigned for compatibility determinations in 46 CFR Part 150 Tables I and II. In accordance with 46 CFR 150.130, the Person-in-Charge of the barge is responsible for ensuring that the compatibility requirements of 46 CFR Part 150 are met. Cargoes must be checked for compatibility using the figures, tables, and appendices of 46 CFR 150 in conjunction with the assigned reactive group number. |
| Note 1                  | Because of the very high reactivity or unusual conditions of carriage or potential compatibility problems, this product is not assigned to a specific group in the Compatibility Chart. For additional compatibility information, contact Commandant (G-MSO-3), U.S. Coast Guard, 2100 Second Street, SW, Washington, DC 20593-0001. Telephone (202) 267-1217.                                                                           |
| Note 2                  | See Appendix I to 46 CFR Part 150 - exceptions to the compatibility chart.                                                                                                                                                                                                                                                                                                                                                               |
| Subchapter              | The subchapter in Title 46 Code of Federal Regulations under which the cargo has been classified.                                                                                                                                                                                                                                                                                                                                        |
| Subchapter D            | Those flammable and combustible liquids listed in 46 CFR Table 30.25-1.                                                                                                                                                                                                                                                                                                                                                                  |
| Subchapter O            | Those hazardous cargoes listed in 46 CFR Table 151.05 and 46 CFR Part 153 Table 2.                                                                                                                                                                                                                                                                                                                                                       |
| Note 3                  | Those cargoes listed in 46 CFR Part 153 Table 2 are non-regulated cargoes when carried in bulk on non-oceangoing barges.                                                                                                                                                                                                                                                                                                                 |
| Grade                   | The cargo classification assigned to each flammable or combustible liquid. Grades inside of "( )" indicate a provisional assignment based upon literature sources which were not verified by manufacturers data. The Person-in-Charge shall verify the cargo grade based on Manufacturer's data and ensure that the barge is authorized for carriage of that grade of cargo.                                                             |
| A, B, C                 | Flammable liquid cargoes, as defined in 46 CFR 30.10.22.                                                                                                                                                                                                                                                                                                                                                                                 |
| D, E                    | Combustible liquid cargoes, as defined in 46 CFR 30.10.15.                                                                                                                                                                                                                                                                                                                                                                               |
| Note 4                  | The flammability/combustibility grade of these cargoes may vary depending upon the flashpoint and Reid vapor pressure. The Person-in-Charge shall verify the cargo grade based on Manufacturer's data and ensure that the barge is authorized for carriage of that grade of cargo.                                                                                                                                                       |
| NA                      | Those subchapter O cargoes which are not classified as a flammable or combustible liquid.                                                                                                                                                                                                                                                                                                                                                |
| #                       | No flammability/combustibility grade has been assigned yet, as the necessary flash point/vapor pressure data for such assignments are presently not available.                                                                                                                                                                                                                                                                           |
| Hull Type               | The required barge hull classification for carriage of the specified Subchapter O hazardous material cargo, see 46 CFR 151.10-1.                                                                                                                                                                                                                                                                                                         |
| I                       | Designed to carry products which require the maximum preventive measures to preclude the uncontrolled release of the cargo. See 46 CFR 151.10-1(b)(1).                                                                                                                                                                                                                                                                                   |
| II                      | Designed to carry products which require significant preventive measures to preclude the uncontrolled release of cargo. See 46 CFR 151.10-1(b)(3).                                                                                                                                                                                                                                                                                       |
| III                     | Designed to carry products of sufficient hazard to require a moderate degree of control. See 46 CFR 151.10-1(b)(4).                                                                                                                                                                                                                                                                                                                      |
| NA                      | Not applicable to barges certificated under Subchapter D.                                                                                                                                                                                                                                                                                                                                                                                |

#### Conditions of Carriage

|                   |                                                                                                                 |
|-------------------|-----------------------------------------------------------------------------------------------------------------|
| Tank Group        | The vessel's tank group (as defined in Section 4) which is authorized for carriage of the named cargo.          |
| Vapor Recovery    | Yes: The vessel's VCS has been reviewed and approved by the MSC to control vapors of the specified cargo.       |
| Approved (Y or N) | No: The vessel's VCS has been reviewed and is not approved by the MSC to control vapors of the specified cargo. |

#### Conditions of Carriage

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tank Group        | The vessel's tank group (as defined under the "46 CFR Tank Group Characteristics" listed on page 1) which is authorized for carriage of the named cargo.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Vapor Recovery    | Yes: The vessel's VCS has been reviewed and approved by the MSC to control vapors of the specified cargo.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Approved (Y or N) | No: The vessel's VCS has been reviewed and is not approved by the MSC to control vapors of the specified cargo.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| VCS Category:     | The specified cargo's provisional classification for vapor control systems.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Category 1        | (No additional VCS requirements above those for benzene, gasolines and crude oil) All requirements applying to the handling of oil and hazardous materials in Titles 33 and 46 Code of Federal Regulations (CFR) apply to these cargoes. Those specifically dealing with vapor control systems are in 33 CFR 155.750, 33 CFR 156.120, 33 CFR 156.170, 46 CFR 35.35 and 46 CFR 39. The cargo tank venting system calculations (46 CFR 39.20-11) and the pressure drop calculations (46 CFR 39.30-1(b)) must use appropriate friction factors, vapor densities and vapor growth rates.                                                                                              |
| Category 2        | (Polymerizes) Polymerization and residue build-up of these cargoes can adversely affect the vessel by fouling safety components and restricting vapor flow which could lead to cargo tank overpressurization. The vessel's owner must develop a method of ensuring all VCS safety components are functional and polymer build-up is not causing an unsafe condition due to increased pressure in the vapor control piping and cargo tanks. The method shall be acceptable to the local Officer in Charge, Marine Inspection. This is in addition to the requirements of Category 1. Please note that a material not normally considered a monomer can be a problem in detonation. |
| Category 3        | (Highly toxic) VCSs for these toxic cargoes cannot use a spill valve or rupture disk as the primary means to meet the overfill protection requirement of 46 CFR 39.20-9. This requirement is in addition to the requirements of Category 1.                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Category 4        | (Polymerizes and highly toxic) Must comply with requirements of Categories 1, 2 and 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Category 5        | (High vapor pressure) VCS pressure drop calculations for cargoes with a vapor pressure greater than 14.7 psia at 115 F must take into account increased vapor-air mixture densities and vapor growth rates as compared to Category 1 cargoes. Consult the Marine Safety Center's VCS Guidelines for further information. This requirement is in addition to the requirements of Category 1.                                                                                                                                                                                                                                                                                       |
| Category 6        | (High vapor pressure and highly toxic) Must comply with requirements of Categories 1, 3 and 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Category 7        | (High vapor pressure and polymerizes) Must comply with requirements of Categories 1, 2 and 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| none              | The cargo has not been evaluated/classified for use in vapor control systems.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |