

U.S. Department
of Transportation

United States
Coast Guard



Commanding Officer
United States Coast Guard
Marine Safety Center

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16710/JEFF 97-2144
/45/46/47
16710/P003770
Serial: C1-9800817
March 13, 1998

Mr. Eugene R. Seib
Jeffboat
P.O. Box 610
1030 East Market St.
Jeffersonville, IN 47130

Subj: Jeffboat Hulls 97-2144 through 97-2147
195' x 35' x 12.5' Unmanned Type II/III Tank Barges (O/D)
Rivers; Lakes, Bays, and Sounds
Extension of Plan Approval

Ref: (a) Your letter dated February 3, 1998
(b) Our letter, Serial C1-9603418, dated November 12, 1996

Dear Mr. Seib:

In response to your request in reference (a), our approvals in reference (b) for Jeffboat hulls 96-2869 through 96-2882 are extended to Jeffboat hulls 97-2144 through 97-2147. This extension of plan approval is based on our understanding that these vessels will be built to the same plans and will carry the same cargoes. The approvals of our Engineering Division are also extended to these vessels.

Please provide the barge names and official numbers when they are assigned.

If you have any questions regarding our review, please contact LT Rendall Farley of my staff.

Sincerely,

A handwritten signature in black ink, appearing to read "B. R. Emond".

B. R. EMOND
Lieutenant Commander, U.S. Coast Guard
Chief, Domestic Tank Vessel Branch
By direction of the Commanding Officer

Copy: CG MSO Louisville

CBC 22, CBC 23, CBC 24 and CBC 25

FOR: All Approved Chemicals

TABLE OF WORST CASE PRESSURE DROPS AS A FUNCTION OF LOADING RATE AND VAPOR DENSITY OF THE CARGO

TABLE I. For Cargoes With Vapor Densities Ranging Up To And Including 2.0

<u>Loading Rate</u>	<u>Pressure Drop</u>	<u>Pressure Drop</u>
3500 bbls/hr	.08 psi	2.2 inches H ₂ O
4000 bbls/hr	.1 psi	2.8 inches H ₂ O
4500 bbls/hr	.126 psi	3.5 inches H ₂ O
5000 bbls/hr	.153 psi	4.2 inches H ₂ O
5500 bbls/hr	.186 psi	5.2 inches H ₂ O
6000 bbls/hr	.214 psi	6.0 inches H ₂ O
7000 bbls/hr	.282 psi	7.8 inches H ₂ O
8000 bbls/hr	.366 psi	10.1 inches H ₂ O

TABLE II. For Cargoes With Vapor Densities Ranging From Above 2.0 Up To And Including 3.0.

<u>Loading Rate</u>	<u>Pressure Drop</u>	<u>Pressure Drop</u>
3500 bbls/hr	.1 psi	2.8 inches H ₂ O
4000 bbls/hr	.13 psi	3.6 inches H ₂ O
4500 bbls/hr	.16 psi	4.5 inches H ₂ O
5000 bbls/hr	.19 psi	5.4 inches H ₂ O
5500 bbls/hr	.23 psi	6.5 inches H ₂ O
6000 bbls/hr	.27 psi	7.6 inches H ₂ O
7000 bbls/hr	.37 psi	10.2 inches H ₂ O
8000 bbls/hr	.47 psi	13.0 inches H ₂ O

CBC 22, CBC 23, CBC 24 and CBC 25

FOR: All Approved Chemicals

TABLE OF WORST CASE PRESSURE DROPS AS A FUNCTION OF LOADING RATE AND VAPOR DENSITY OF THE CARGO

TABLE III. For Cargoes With Vapor Densities Ranging From Above 3.0 Up to And Including 4.0.

<u>Loading Rate</u>	<u>Pressure Drop</u>	<u>Pressure Drop</u>
3500 bbls/hr	.123 psi	3.4 inches H ₂ O
4000 bbls/hr	.156 psi	4.3 inches H ₂ O
4500 bbls/hr	.19 psi	5.4 inches H ₂ O
5000 bbls/hr	.24 psi	6.6 inches H ₂ O
5500 bbls/hr	.28 psi	7.9 inches H ₂ O
6000 bbls/hr	.34 psi	9.3 inches H ₂ O
7000 bbls/hr	.45 psi	12.5 inches H ₂ O
8000 bbls/hr	.58 psi	16.0 inches H ₂ O

TABLE IV. For Cargoes With Vapor Densities Ranging From Above 4.0 Up to And Including 5.0.

<u>Loading Rate</u>	<u>Pressure Drop</u>	<u>Pressure Drop</u>
3500 bbls/hr	.14 psi	3.9 inches H ₂ O
4000 bbls/hr	.183 psi	5.1 inches H ₂ O
4500 bbls/hr	.23 psi	6.4 inches H ₂ O
5000 bbls/hr	.28 psi	7.7 inches H ₂ O
5500 bbls/hr	.34 psi	9.3 inches H ₂ O
6000 bbls/hr	.39 psi	10.9 inches H ₂ O
7000 bbls/hr	.53 psi	14.7 inches H ₂ O
8000 bbls/hr	.68 psi	18.9 inches H ₂ O