

Subject:

U.S. Regulations on Vapor
Emission Control System
and Certificate of
Compliance.

NK TECHNICAL INFORMATION

No. 101

Date: 29th Oct., 1991

To shipowners and shipbuilders concerned,

In the United States of America, under the provisions of the Environmental Protection Agency's Clean Air Act of 1970, each State has been empowered to establish Air Pollution Prevention Regulations.

In each state of Alaska, California, Louisiana, New Jersey and Pennsylvania the said regulations have been established or proposed to control emission of vapor from the cargoes of Crude Oil, Gasoline Blends and Benzene caused in loading and ballasting operation.

Please refer to the attached table for more information, the effective dates shown in which are yet to be confirmed with the states.

The regulations require tankers trading in U.S. water with the abovementioned cargoes to be provided with Vapor Emission Control System in accordance with USCG Regulations "46 CFR Part 39".

It stipulates that the shipowner of a vessel flying a flag other than that of U.S. may submit USCG a certificate of compliance with its requirements issued by the classification society which classes the vessel.

Under the provision, the Society will carry out at request plan examination, inspection and certification of the system.

An application for the compliance Certificate is to be submitted to the Society's Technical Service Department along with each three copies of the following drawings and calculation sheets.

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1. General Arrangement of System
2. Cargo Vapor Emission Control and Collection Piping
3. Venting Capacity Calculations (See 39.20-11)
4. Basis for The Determination of The Max. Allowable Transfer Rate
(See 39.30-1(D))
5. Pressure Drop Calculations (See 39.30-1(D))
6. Overfill Alarm Calculation (See 39.30-1(E))
7. Tank Gauging and Overfill Control System
8. Independent Automatic Shutdown Systems
9. Instrumentation and Alarm System
10. Wiring Diagrams

For further information, please contact:

- (1) for general information on the matter
Technical Service Department (Person in charge Mr. T. Katoh)
- (2) on plan approval
Tanker Section, Hull Department (Person in charge Mr. Y. Seto)
Tel (03)3230-1201 Fax (03)3230-3524

Upon approval of the plans and survey on board the vessel with satisfactory results, the certificate will be issued.

Table

Regulations and Compliance Dates

A R E A	REGULATION	COMPLIANCE DATE	AFFECTED FACILITIES
San Francisco Bay Area	Rule 44, 46 for inter-ship cargo transfer	July 1, 1991	Terminals loading more than 1 million Bbl/Yr
		July 1, 1992	Terminals loading less than 1 million Bbl/Yr
South California	Reg. 1142	Jan. 1, 1994	Terminals that have a loading event greater than 1,000,Bbl
Louisiana	Rule 2108 (Proposed)	Dec. 31, 1991	All with uncontrolled emissions>100tons/Yr For Gasoline and other VOC
		May 1, 1992	For Crude Oil
New Jersey	NJAC-7-27-16.3	Feb. , 1991	All loading greater than 6 million gal/Yr of gasoline
Alaska	Proposed Regulation	June , 1992	Terminals with throughputs greater than 5 million Bbl /Yr (or with uncontrolled VOC emissions $\geq$ 250 tons/Yr)
Pennsyl- vania	25 PA Code CHS	Feb. , 1991	All Terminals of gasoline