

Appendix D

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Gas-Free Certificates (CV and Secondary Containment)

MARINE CHEMIST SERVICE, INC.
11850 Tug Boat Lane
Newport News, VA 23606
(757) 873-0933 Norfolk (757) 640-1122

MARINE CHEMIST CERTIFICATE
SERIAL NO. **M 15268**

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Survey Requested by JRRF WPI, ERM Vessel Owner or Agent MARAD/NRC Date 11 April 2005
Vessel NS Savannah Type of Vessel Passenger/Dry Cargo Specific Location of Vessel JRRF Wake Row
Last Three (3) Loadings N/A Tests Performed CF LEL Visual Time Survey Completed 1430

Primary Containment → Enter with Restrictions -
maintain forced air mechanical ventilation
Restrictions:
① First level only until such time that readings by the SFP indicate greater than 19.5% oxygen as progression is made
② Radiological survey indicates safe radiation levels exist

Upper Secondary Containment
Middle Secondary Containment
Lower Secondary Containment → Atmosphere Safe for Workers -
maintain ventilation

tested at 15.02
0% LEL
Contained
Entry is contingent upon radiological testing continues to indicate safe levels.

Just Calib Check 4105

In the event of physical or atmospheric changes affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, this certificate is voided; spaces not listed on this Certificate are not to be entered unless authorized on another Certificate and/or maintained in accordance with OSHA 29 CFR 1916, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist. Unless otherwise stated on the Certificate, all spaces and affected adjacent spaces are to be reinspected daily or more often as necessary by the competent person or the authority having jurisdiction as applicable in support of work prior to entry or recommencement of work.

QUALIFICATIONS: Transfer of Ballast, cargo, fuel, or manipulation of valves or closure equipment tending to alter conditions in pipelines, tanks, or compartments subject to gas accumulation, unless specifically approved on this Certificate, requires inspection and a new Certificate for spaces so affected. All lines, vents, heating coils, valves, and similar enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated. Movement of the vessel from its specific location voids this Certificate unless shifting of the vessel within the facility has been specifically authorized on this Certificate.

STANDARD SAFETY DESIGNATIONS: (partial list, paraphrased from NFPA 306, Subsections 4.3.1 through 4.3.6).

ATMOSPHERE SAFE FOR WORKERS: In the compartment or space so designated: (a) the oxygen content of the atmosphere is at least 19.5 percent and not greater than 22 percent by volume; (b) the concentration of flammable materials is below 10 percent of the lower explosive limit; (c) any toxic materials in the atmosphere associated with cargo, fuel, tank coatings, lining, mists, or fumigants are within permissible concentrations at the time of the inspection.

NOT SAFE FOR WORKERS: In the compartment or space so designated, entry or work is not permitted.

ENTER WITH RESTRICTIONS: In the compartment or space so designated, entry or work is permitted only if conditions of proper protective equipment, or clothing, or time, or all of the aforementioned, as appropriate, are as specified.

SAFE FOR HOT WORK: In the compartment or space so designated: (a) the oxygen content of the atmosphere is not greater than 22 percent by volume; (b) the concentration of flammable materials in the atmosphere is less than 10 percent of the lower explosive limit; (c) the residues, scale, or preservative coatings are cleaned sufficiently to prevent the spread of fire and are not capable of producing a higher concentration than permitted by (a) or (b); (d) all adjacent spaces, containing or having contained tanks, lube tanks, or engine room or fire room bilges, or other machinery spaces, are treated in accordance with the Marine Chemist's requirements.

SAFE FOR LIMITED HOT WORK: In the compartment or space so designated: (a) portions of the space meet the requirements for Safe for Hot Work and Partial Cleaning, as applicable; or (b) the space is inerted; adjacent spaces meet the requirements for Safe for Hot Work, and hot work is restricted to specific locations; (c) portions of the space shall meet the requirements for Safe for Hot Work, as applicable, and the nature or type of hot work is limited or restricted.

NOT SAFE FOR HOT WORK: In the compartment or space so designated, hot work is not permitted.

CHEMISTS ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NTPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

The undersigned acknowledges receipt of this Certificate under NTPA 306 and understands conditions and limitations under which it is issued, and the requirements for maintaining its validity.

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed James P. Duff WPI Company 04/11/05 Date James P. Duff 671
Checked by _____