

STATE OF ALASKA

DEPT. OF ENVIRONMENTAL CONSERVATION

DIVISION OF WATER

CRUISE SHIP PROGRAM

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September 9, 2009

Captain William J. Morani, Jr.
Holland America Line
300 Elliot Avenue West
Seattle, WA 98119

Re: Interim Source Reduction Evaluation Report – Due October 1, 2009

Dear Captain Morani:

Per Section 1.9 of the Large Commercial Passenger Vessel Wastewater Discharge Permit number 2007DB0002, a permittee that has been approved to discharge under the interim discharge limits is required to submit a Source Reduction Evaluation (SRE) report. This is an evolving process. Therefore, the Alaska Department of Environmental Conservation (DEC) periodically requests information from the cruise industry to track progress on their SRE efforts. Holland America Line most recently provided information to DEC on April 30, 2009.

Holland America Line should submit an update to DEC that details the company's SRE efforts during the 2009 Alaska Cruise Ship Season. This report should include, but need not be limited to, the following information. The HAL response should clearly indicate when there are specific differences for a particular vessel. All questions refer to the 2009 Alaska Cruise Ship Season.

Additional Information Required in Interim SRE Report Due September 30, 2009

1. In the April 30, 2009 HAL SRE update, HAL stated that the company had completed the data gathering project on Steiner spa and salon products and identified those products that contained a constituent of concern. The HAL analysis of the concentration of the products indicated that the products were not likely to be a significant contributor of ammonia. If HAL performed any other reviews of chemicals that are used aboard your ships, please

provide that information to DEC. If any chemical substitutions were made in 2009 for the purpose of achieving SRE goals, provide that information to DEC as well.

2. Identify the average volumes of drinking water that was produced versus bunkered for 2009. How do those values compare with 2008?
3. Does HAL have a strategic water sourcing strategy for its vessels? If so, describe the strategy and when it was implemented.
4. In the January 14, 2009 and April 30, 2009 HAL SRE updates, you identified laundry waste water as having significantly higher concentrations of copper, nickel, and zinc. HAL stated that it may begin a pilot project aboard the *Ryndam* to use an "Ozonator" to produce the same or better laundry results while using less water, lower water temperatures, and less laundry chemicals. Was the equipment installed on the vessel? If not, why? If it was installed, provide any baseline data and data on quality of the laundry water post "Ozonator" installation. Provide a narrative and sketch or picture(s) regarding the function and installation of the "Ozonator." Provide an update on the timeline of the project.
5. The April 30, 2009 HAL SRE updated that the *Volendam* had been identified as the vessel to conduct a pilot study using nitrifying bacteria with the goal of reducing the level of ammonia in the wastewater effluent. Was the study conducted on the vessel? If not, why? If it was installed, provide any baseline data and data on quality of the wastewater after the trial. Provide a narrative and sketch or picture(s) regarding the function and installation of the equipment. Provide an update on the timeline of the project.
6. Please provide additional information regarding the newly implemented water conservation program. When was the strategy implemented? Has HAL noted any changes in the wastewater effluent quality?
7. Have any modifications been made to the equipment, maintenance, or operation of any of the wastewater treatment systems aboard HAL ships based upon the findings of the Hamworthy Phase I trial that was conducted aboard the *Golden Princess*? If so, please describe the changes and any differences in the effluent quality.

DEC looks forward to the October 1, 2009 Holland America Line update to learn more about efforts that your company has taken to protect Alaska's environment.

Sincerely,

A handwritten signature in black ink, appearing to read "Denise Koch", with a stylized flourish at the end.

Denise Koch
Program Manager

Cc: Lynn Kent, ADEC/Water/Director's Office
Albert Faure, ADEC/Water/CPVEC
Ed White, ADEC/Water/CPVEC
Scott Merry, ADEC/Water/CPVEC
Ruth Hamilton Heese, ADOL, Juneau