



AUTHORIZATION TO DISCHARGE

Alaska Department of
Environmental
Conservation
Division of Water
CPVEC Program

AUTHORIZATION TO DISCHARGE UNDER THE LARGE COMMERCIAL PASSENGER
VESSEL WASTEWATER DISCHARGE GENERAL PERMIT NO. 2013DB0004

FACILITY ASSIGNED AUTHORIZATION NUMBER: 2013DB0004-0012

GENERAL PERMIT NUMBER: 2013DB0004

See this General Permit for all permit requirements.

The following facility is authorized to discharge in accordance with the terms of the State of Alaska General Permit 2013DB0004 and any specific requirements listed in this authorization.

The authorization effective date is **April 30, 2015**.

The authorization to discharge shall expire at midnight, **on the expiration or termination date of General Permit 2013DB0004 (August 28, 2019)** unless notified by the Department.

The permittee must reapply for an authorization when the Department issues a General Permit that replaces 2013DB0004 if the permittee intends to continue operations and discharges from the facility.

SECTION 1 - RESPONSIBLE PARTY INFORMATION

Issued to:	Holland America Line
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SECTION 2 - FACILITY INFORMATION

ADEC File Number:	920.45.013
Authorization Number	2013DB0004-0012
Facility Name:	Statendam
Type of Facility	Large Commercial Passenger Vessel
Type of Wastewater Authorized for Discharge:	Treated mixed, black and greywater or greywater only - additional special conditions for discharge apply (see below).
Type of Wastewater Treatment System:	Zenon AWTs
Type of Authorization:	Authorized for discharge of treated wastewater treated through a Zenon wastewater treatment system configuration as approved by the

	Department in the current Vessel Specific Sampling Plan while underway at speeds greater than 6 knots.
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SECTION 3 – REGULATED DISCHARGE INFORMATION – EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Effluent Compliance Point:	Wastewater effluent sampling port(s) identified in the Department approved Vessel Specific Sampling Plan.
Effluent Limitations	Table 3 of the General Permit for discharges underway at speeds greater than 6 knots.
Special Conditions:	The Statendam is not authorized to discharge wastewater into Alaska marine waters while stationary or at speeds less than 6 knots.
Monitoring Requirements	Table 5 of the General Permit, and any other applicable monitoring requirements in the General Permit
Discharge Monitoring Report (DMR)	The Statendam must submit a monthly DMR with effluent limits that is available on the Department's website: (http://dec.alaska.gov/water/cruise_ships/gp/2014gp.html) or on a similar form approved by the Department.

SECTION 4 – RECEIVING AREA INFORMATION-RECEIVING WATER

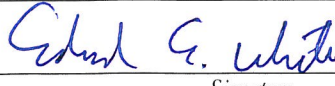
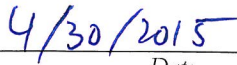
Receiving Area Name:	Marine waters of the state of Alaska as defined in the General Permit
Underway Mixing Zone Description:	63 meters in length, 5 meters in width, and a depth from the water surface to the depth the discharge port is below the water surface plus one meter. The shape of the mixing zone is an elongated rectangle that extends from the discharge port towards the stern of the ship.
Stationary Mixing Zone Description:	Not authorized for discharge.
Skagway Discharge at Ore or Broadway Docks	Not authorized for discharge.

SECTION 5 – ADDITIONAL TERMS AND CONDITIONS (GP 4.3.2)

NA	None
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If you have any technical questions regarding this authorization or the requirements of the general permit, please contact the Cruise Program Manager at (907) 465-5320.

SECTION 6 – CERTIFICATION/SIGNATURE

	
<i>Signature</i>	<i>Date</i>
Edward E White	EPS III, ADEC CPVEC
<i>Printed Name</i>	<i>Title</i>

**NOTICE OF INTENT FORM****Notice of Intent to be covered under the Wastewater General Permit 2013DB0004 for Large Commercial Passenger Vessels Operating in Alaska (See Sections 2 and 3 of the permit.)**

Submission of this document constitutes a request that certain discharges into marine waters of the state resulting from the operation of the large commercial passenger vessels identified herein be authorized under General Permit 2013-DB0004.

Vessel Owner Information

Who is the main point of contact for the vessel? (e.g. owner, operator, or Alaska Agent):

Michael D. Inman, Vice President Safety & Environmental Operations

Vessel Owner's Business Name: **Holland America Line, N.V.**

Mailing Address:

300 Elliott Avenue West

Seattle, WA 98119

Phone: **206.286.3203**

Representative: Michael D. Inman

Email: **minman@HollandAmerica.com**

Vessel Owner's or Operator's Alaska Agent Information

Company Name: **Ralph Samuels, Vice President Alaska Community & Government Affairs**

Mailing Address:

601 West 5th Avenue #501

Anchorage, AK 99501

Phone: **907.264.2128**

Representative:

Email: **RSamuels@HollandAmerica.com**

Vessel Operator's Business Name if Different From the Owner's Business Name

Vessel Operator's Business Name:

Mailing Address:

Phone:

Representative:

Email:

Vessel Information (Y/N)	
Are you seeking authorization to discharge with a mixing zone?	Y
Are you seeking authorization to discharge while moving at 6 knots or greater?	N
Are you seeking authorization to discharge while moving at under 6 knots?	Y
Are you seeking authorization to discharge while in Skagway at Broadway or Ore Docks?	Y
If the permittee is seeking authorization which includes a mixing zone, attach (may be emailed separately) a drawing to scale that indicates the length of the vessel and the locations of all wastewater effluent penetration points (ports) on the hull.	
Vessel Name:	STATENDAM
Vessel IMO Number:	8919245
Vessel Gross Tonnage:	55819
Port of Registry:	Rotterdam, The Netherlands
Maximum Passenger Capacity per Voyage:	1260
Maximum Crew Capacity per Voyage:	580
Vessel Draft ¹ :	a)FWD:7.86 AFT: 7.63m b)FWD: 6.73 AFT:7.72m
Vessel Length in Meters at Waterline ² :	193.07m
Vessel Tracking	
Method of submitting hourly vessel tracking information while in Alaskan waters (Marine Exchange of Alaska AIS or other Department approved method):	
Name, physical address, and mailing addresses of the service:	Marine Exchange of Alaska 1000 Harbor Way Suite 204 Juneau, Alaska 99801
Contact's name, email address, and phone number:	Brett Farrell, Assistant Director brettfarrell@mxak.org 907.463.4640

Discharge Port Characteristics**Note: If there is more than one discharge port, attach a sheet with the characteristics below for**

¹ Vessel draft under a) loaded condition for Alaska operations (bunkers / waste water storage etc.) and b) under light ship conditions for Alaska operations (bunkers empty / no waste water storage etc.)

² Length of Waterline (LWL) under normal load in standard Alaska conditions.

each AWTS Port. If more than one discharge pump attach sheet with capacity for each.			
Discharge Port Name ³ :	Port D (item 38 on drawing)	Location (Starboard/Port):	Starboard
Discharge Port Internal Diameter:	100mm	Discharge Port Centerline Vertical Distance from Keel:	6.1m
Discharge Port Distance from Bow at Waterline (normal load):	Frame 56 of 260 or 183.6 meters from bow	Discharge Port Centerline Vertical Distance from Waterline (normal load) ⁴ :	1.4m
Discharge Port shape (round, oval, square):	Round	Discharge Port Pump Capacity (m ³ /hr.) for each Pump ⁵ :	40m ³ /hr.
Discharge Port Vertical Angle Relative to Waterline ⁶ :	90°	Discharge Port Horizontal Angle Relative to Centerline ⁷ :	90°

Wastewater Discharge Information		
Estimates of the average and maximum volume of the wastewater to be discharged per 24 hour period (in cubic meters), and the beginning and ending dates between which discharges may occur the first year of the permit;	Average:	510m ³
	Maximum:	610m ³
	Startup Date:	20MAY15
	Ending date:	19SEP15

³ Name or identification as used in VSSP and Waste Water Discharge Logbook.

⁴ Vertical distance from the vertical centerline of the discharge port relative to the standard (loaded) conditions waterline.

⁵ Treated wastewater discharge pump for the named discharge port. For vessels with variable speed / capacity pumps identify the effective discharge capacities. For vessels with more than one pump simultaneously operated identify the total effective pump capacities.

⁶ Parallel with the Vertical Longitudinal Center Plane orientation of the hull orientation angle defined as the angle in degrees between the horizontally perpendicular projected line originating from the vertical longitudinal center plane of the hull self to the center of the discharge port, and the projected perpendicular line originating from the port center self (face) vertically directed to the center plane of the hull (Y-Y axis).

⁷ Parallel with the Vertical Longitudinal Center Plane orientation of the hull orientation angle defined as the angle in degrees between the horizontally perpendicular projected line originating from the vertical longitudinal center plane of the hull self to the center of the discharge port, and the projected perpendicular line originating from the port center self (face) horizontally directed to the vertical center plane of the hull (X-X axis).

The type, number, and combined maximum design capacity in cubic meters per 24 hour period of all advanced wastewater treatment systems (AWTS) onboard;	Type (s) (including manufacturer, model name, model number, and year built):	Type I MSD Zenon installation. The Zenon system is an amalgamation of the ZenoGem and ZeeWeed technologies. The ZenoGem system consists of a suspended growth biological reactor. The ZeeWeed system is an ultrafiltration membrane system implemented using 64 ZeeWeed ZW-500B modules arranged in 16 cassettes. The system includes a final stage UV sterilization filter.
	Number of AWTS:	One Zenon installation consisting of two identical parallel processes. These processes are designated Train 1 and Train 2.
	Combined design capacity:	Total system capacity 660m³/day effluent from combined black and gray water influent.
Type(s) of sewage treatment and system capacity in cubic meters per 24 hour period;	Type (s) (including manufacturer, model name, model number, and year built): Zenon Environmental Inc. Advanced Black and Gray Water Treatment System consisting of the ZenoGem and ZeeWeed processes. The system includes a final stage UV sterilization filter. Total system capacity 660m³/day effluent from combined black and gray water influent. Combined design capacity: 660m³/day	
Type(s) of graywater treatment and system capacity in cubic meters per 24 hour period;	Type (s) (including manufacturer, model name, model number, and year built): Zenon Environmental Inc. Advanced Black and Gray Water Treatment System consisting of the ZenoGem and ZeeWeed processes. The system includes a final stage UV sterilization filter. Total system capacity 660m³/day effluent from combined black and gray water influent. Combined design capacity: 660m³/day	
Average volume of sewage generation per day in cubic meters;	Average 40 tons/day	
Maximum volume of sewage generation per day in cubic meters;	Maximum 100 tons/day	
Average graywater generation per day in cubic meters for the following sources;	Accommodations: Average 295m³/day Galley: Average 75m³/day Laundry: Average 100m³/day	

	Other (list types and volumes):
Maximum graywater generation per day in cubic meters for the following sources;	Accommodations Maximum 330m³/day Galley Maximum 100m³/day Laundry Maximum 120m³/day Other (list types and volumes):
The method of handling and disposal of sludge and bio-solids produced from the treatment of sewage and graywater. Pre-treatment filtered Solids are landed ashore. Retained solids from the bioreactor, known as biomass, are discharged outside 12NM.	