



THE STATE
of **ALASKA**
GOVERNOR MIKE DUNLEAVY

Department of Environmental
Conservation

DIVISION OF WATER

Wastewater Discharge Authorization Program

555 Cordova Street
Anchorage, Alaska 99501-2617
Main: 907.269.6285
Fax: 907.334.2415

www.dec.alaska.gov/water/wwdp

April 1, 2022

Manolis Kasselas
RCL Crusies, Ltd
The First Floor, North Wing, 7 The Heights
Weybridge, Surry, KT13 0XW
United Kingdom

Re: Authorization to Discharge 2013DB0004-0037: Quantum of the Seas

Dear Mr. Kasselas:

The Alaska Department of Environmental Conservation (DEC) has completed its review and acknowledges that you have submitted a complete Notice of Intent (NOI) form for the 2013DB0004 Large Commercial Passenger Vessel Wastewater Discharge General Permit (Permit).

The Quantum of the Seas is hereby authorized to discharge treated wastewater into Alaska marine waters and is issued wastewater discharge authorization number 2013DB0004-0037. Discharge from this vessel is authorized in accordance with the terms and conditions of the general permit and any vessel-specific conditions included in this document.

An electronic copy of the Permit and this authorization is available at the Department website <http://dec.alaska.gov/water/cruise-ships/cruise-general-permit/>.

The following are vessel specific conditions that apply to this authorization:

- 1) Treated wastewater discharge is ONLY authorized when the vessel is operating at speeds of 6 knots or greater.
 - a. Mixing Zone: A mixing zone was not requested for this vessel.
 - b. Effluent Limits and sampling requirements are identified in Tables 2 and 5 of the Permit.
- 2) Discharge from multiple ports simultaneously is prohibited.

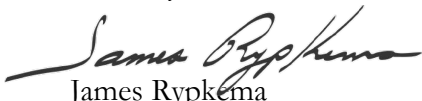
The permittee is reminded of the following permit requirements, and is responsible for all submissions and activities in the Permit even if they are not summarized below:

- All Commercial Passenger Vessels must register annually see Permit Part 2.1.3.
<http://dec.alaska.gov/water/cruise-ships/cruise-registration/>.
- As per Permit Part 4.2.3, the permittee shall notify the Department, in writing, of wastewater treatment system modifications that change information provided to the Department in the approved NOI form at least 48 hours prior to the discharge of any treated wastewater into marine waters of the state. The NOI Application form can be accessed at the Departments website <http://dec.alaska.gov/water/cruise-ships/cruise-general-permit/>.

- Quality Assurance Project Plan (QAPP) see Permit Part [6.1](#): The owner/operator of a vessel that intends to discharge wastewater into Alaskan waters must submit a wastewater sampling QAPP to ADEC for approval.
- Vessels Specific Sampling Plan (VSSP) see Permit Part [6.2](#): All vessels are required to have an approved Vessel Specific Sampling Plan (VSSP) 21 days before sampling.
- Underway sampling requirements for discharges underway at speeds greater than 6 knots and effluent limits can be found in Tables [3](#) and [5](#) of the permit.
- Discharge Monitoring Reports (DMRs): see Permit Part [7.2](#): DMRs are required for each calendar month that the vessel operated in the marine waters of the state and must be submitted within the first 21 days of the following calendar month.
- Submit all CPVEC registration correspondence, support documents, and reports to: DEC.WQ.Cruise@alaska.gov or mail to: ADEC-CPVEC, ATTN: Cruise Ship Program P.O. Box 111800 Juneau, AK 99811-1800.
- A copy of the General Permit 2013DB0004 and this authorization letter must be kept onboard the vessel. This letter does not relieve the permittee from other local, state, or federal government permitting requirements.

Please reference your permit authorization number 2013DB0004-0037 and vessel name in all future correspondence. If you have any questions regarding the above, please contact Sam Kito at 907-269-7542, or via email at Sam.Kito@alaska.gov.

Sincerely,



James Rypkema
Program Manager, Cruise Ship Permitting

Enclosure: NOI

cc: DEC.WQ.Cruise@alaska.gov



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): Owner & operator	
Vessel Owner's Business Name: Quantum of the Seas, Inc. c/o Royal Caribbean Cruises Ltd.	
Mailing Address: The First Floor, North Wing, 7 The Heights, Weybridge, Surrey, KT13 0XW United Kingdom	Phone: +44 5577732
Representative: Manolis Kasselas	Email: mkasselas@rccl.com
Vessel Owner's or Operator's Alaska Agent Information	
Company Name: RCL Cruises, Ltd	
Mailing Address: The First Floor, North Wing, 7 The Heights, Weybridge, Surrey, KT13 0XW United Kingdom	Phone: +44 5577732
Representative: Manolis Kasselas & John Hanley	Email: mkasselas@rccl.com Email: jhanley@rccl.com
Vessel Operator's Business Name if Different From the Owner's Business Name	
Vessel Operator's Business Name: RCL Cruises, Ltd	
Mailing Address: The First Floor, North Wing, 7 The Heights, Weybridge, Surrey, KT13 0XW United Kingdom	Phone: +44 5577732

Notice of Intent

Large Commercial Passenger Vessel Wastewater General Permit

2013DB0004

Representative: Monolis Kasselas & John Hanley

Email: mkasselas@rccl.com

Email: Jhanley@rccl.com

Vessel Information (Y/N)			
Are you seeking authorization to discharge with a mixing zone?			N
Are you seeking authorization to discharge while moving at 6 knots or greater?			Y
Are you seeking authorization to discharge while moving at under 6 knots?			N
Are you seeking authorization to discharge while in Skagway at Broadway or Ore Docks?			N
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:		Quantum of the Seas	
Vessel IMO Number:		9549463	
Vessel Gross Tonnage:		168666	
Port of Registry:		Nassau, Bahamas	
Maximum Passenger Capacity per Voyage:		5392	
Maximum Crew Capacity per Voyage:		1616	
Vessel Draft ¹ :		8.1m/26'7" (MIN) 8.8m/ 28'10" (Max)	
Vessel Length in Meters at Waterline ² :		320.1m/1050'2"	
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:		Quantum of the Seas	
Contact's name, email address, and phone number:		Environmental Officer – QN_environmentalofficer@rccl.com John Hanley – jhanley@rccl.com	
Discharge Port Characteristics			
Note: If there is more than one discharge port attach a sheet with the characteristics below for each AWTs Port. If more than one discharge pump attach sheet with capacity for each.			
Discharge Port Name ³ :	761A3057	Location (Starboard/Port):	Port
Discharge Port Internal Diameter:	5 Inches	Discharge Port Centerline Vertical Distance from Keel:	3.5 meters
Discharge Port Distance from Bow at Waterline (normal load):	250 meters	Discharge Port Centerline Vertical Distance from Waterline (normal load) ⁴ :	5.3 meters
Discharge Port shape	round	Discharge Port Pump Capacity	120m ³ /h

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.

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.

(round, oval, square):		(m ³ /hr) for each Pump ⁵ :	
Discharge Port Vertical Angle Relative to Waterline ⁶ :	70°	Discharge Port Horizontal Angle Relative to Centerline ⁷ :	Above 20°



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:	1100m3
	Maximum:	1200m3
	Startup Date:	May 4 th ,2022
	Ending date:	Oct 2 nd ,2022
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):	Scanship AS, AWP60 Year built: 2014
	Number of AWTS:	1
	Combined design capacity:	1566 m3/day
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): Scan-ship AS, AWP60 Year built: 2014 Combined design capacity: 1566m3/day	

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).

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): Scan-ship AS, AWP60 Combined design capacity: 1566m3/day
Average volume of sewage generation per day in cubic meters;	100 m3
Maximum volume of sewage generation per day in cubic meters;	110 m3
Average graywater generation per day in cubic meters for the following sources;	Accommodations: 650 Galley: 270 m3 Laundry: 170 Other (list types and volumes): Recreational water: 120 m3 other maintenance:30m3
Maximum graywater generation per day in cubic meters for the following sources;	Accommodations: 730 m3 Galley: 300m3 Laundry: 200 m3 Other (list types and volumes): Recreational water: 169 m3 Other maintenance: 40 m3
<p>The method of handling and disposal of sludge and bio-solids produced from the treatment of sewage and graywater.</p> <p>Bio waste de-watered and accumulated in Bio Waste Holding silos are either pumped overboard when ship is in Sea Condition (outside 13 nm from the nearest baseline and minimum ship's speed 7 knots) or subsequent dried and incinerated by using type approved onboard incinerators.</p>	
Signature and Certification for NOI	
<p>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false</p>	

information, including the possibility of fines and imprisonment for knowing violations.	
Signature of Responsible Corporate Officer  	Printed Name Manolis Kasselas
Title/Company AVP, Marine Operations, RCL Cruises, Ltd.	Date 3/9/2022
Submit this Notice of Intent to:	
<p style="text-align: center;">Commercial Passenger Vessel Environmental Compliance Program Division of Water Alaska Dept. of Environmental Conservation PO Box 111800 Juneau, AK 99811-1800</p>	