



THE STATE  
of **ALASKA**  
GOVERNOR MICHAEL J. DUNLEAVY

Department of Environmental  
Conservation

DIVISION OF WATER  
Commercial Passenger Vessel Environmental Compliance  
410 Willoughby Ave, Ste 303  
PO Box 111800  
Juneau, Alaska 99811-1800  
Main: 907-465-5300  
Fax: 907-465-5274  
www.dec.alaska.gov

April 19, 2019

Ian Crane  
Carnival UK  
100 Harbor Parade  
Southampton, S015 1ST  
United Kingdom

ADEC File Number 920.45.076

**Re: Authorization to Discharge 2013DB0004-0035, Queen Elizabeth**

Dear Mr. Crane:

The Alaska Department of Environmental Conservation (DEC) authorizes operation of the *Queen Elizabeth* under the Large Commercial Passenger Vessel Wastewater Discharge General Permit No 2013DB0004 (hereinafter 2014 GP), and has issued the enclosed Authorization 2013DB0004-0035.

DEC authorized the *Queen Elizabeth* for underway discharge of treated wastewater into Alaska marine waters. The *Queen Elizabeth* must take samples and meet the effluent limits found in the 2014 GP. Any changes made to the wastewater treatment installation or sampling must be reported in an updated Vessel Specific Sampling Plan (VSSP) prior to sampling.

Any person who disagrees with this decision may request an adjudicatory hearing in accordance with 18 AAC 15.195 - 18 AAC 15.340 or an informal review by the Division Director in accordance with 18 AAC 15.185. Informal review requests must be delivered to the Director of Water, 410 Willoughby Ave., Suite 303, P.O. Box 111800, Juneau, Alaska 99811-1800, within 15 days of receipt of the permit decision. Adjudicatory hearing requests must be delivered to the Commissioner of the Department of Environmental Conservation, 410 Willoughby Ave., Suite 303, P.O. Box 111800, Juneau, Alaska 99811-1800, within 30 days from the date of the permit decision. If a hearing is not requested within 30 days, the right to appeal is waived.

If you have any technical questions concerning this authorization, please contact me at [edward.white@alaska.gov](mailto:edward.white@alaska.gov) or (907) 465-5138.

Sincerely,

A handwritten signature in blue ink that reads "Edward S. White".

Edward White

CPVEC (Cruise Ship) Program Manager

Enclosure: Authorization 2013DB0004-0035



## 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: 2013DB0004-0035**

**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 19, 2019**

The authorization to discharge shall expire at midnight, **on the expiration date of the General Permit** 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:	Carnival UK
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### SECTION 2 - FACILITY INFORMATION

ADEC File Number:	920.45.076
Authorization Number	2013DB0004-0035
Facility Name:	Queen Elizabeth
Type of Facility	Large Commercial Passenger Vessel
Type of Wastewater Authorized for Discharge:	Treated mixed, black and greywater.
Type of Wastewater Treatment System:	Hamworthy AWTS
Type of Authorization:	Authorized for underway discharge of wastewater treated through a Hamworthy wastewater treatment system.

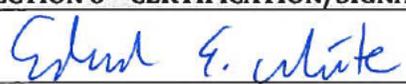
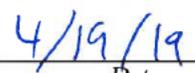
### SECTION 3 - REGULATED DISCHARGE INFORMATION - EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

<b>Effluent Compliance Point:</b>	Wastewater effluent sampling port(s) identified in the Department approved Vessel Specific Sampling Plan.
<b>Effluent Limitations</b>	Table 3 of the General Permit for discharges underway at speeds greater than 6 knots.
<b>Special Conditions:</b>	None
<b>Monitoring Requirements</b>	Table 5 of the General Permit, and any other applicable monitoring requirements in the General Permit
<b>Discharge Monitoring Report (DMR)</b>	The <i>Queen Elizabeth</i> must submit a monthly DMR with effluent limits that is available on the Department's website: ( <a href="http://dec.alaska.gov/water/cruise_ships/gp/2014gp.html">http://dec.alaska.gov/water/cruise_ships/gp/2014gp.html</a> ) or on a similar form approved by the Department.

<b>SECTION 4 - RECEIVING AREA INFORMATION-RECEIVING WATER</b>	
<b>Receiving Area Name:</b>	Marine waters of the state of Alaska as defined in the General Permit
<b>Underway Mixing Zone Description:</b>	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.
<b>Stationary Mixing Zone Description:</b>	Not authorized
<b>Skagway Discharge at Ore or Broadway Docks</b>	Not authorized

<b>SECTION 5 - ADDITIONAL TERMS AND CONDITIONS (GP 4.3.2)</b>	
N/A	No additional terms and conditions

If you have any technical questions regarding this authorization or the requirements of the general permit, please contact the Cruise Program at (907) 465-5138.

<b>SECTION 6 - CERTIFICATION/SIGNATURE</b>	
 _____ <i>Signature</i>	 _____ <i>Date</i>
Edward E White _____ <i>Printed Name</i>	EPM I, CPVEC ADEC _____ <i>Title</i>



**NOTICE OF INTENT FORM**

<b>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.)</b>	
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.	
<b>Vessel Owner Information</b>	
Who is the main point of contact for the vessel? (e.g. owner, operator, or Alaska Agent): Carnival UK	
Vessel Owner's Business Name: Carnival UK	
Mailing Address: Carnival House 100 Harbour Parade, Southampton, SO15 1ST United Kingdom	Phone: [REDACTED]
Representative: Ian Crane	Email: [REDACTED]
<b>Vessel Owner's or Operator's Alaska Agent Information</b>	
Company Name: Cruise Line Agencies of Alaska	
Mailing Address: 4341 B Street, Suite 202, Anchorage, AK99503 United States	Phone: +[REDACTED]
Representative: John Kimmel	Email: [REDACTED]
<b>Vessel Operator's Business Name if Different From the Owner's Business Name</b>	
Vessel Operator's Business Name:	
Mailing Address:	Phone:
Representative:	Email:

<b>Vessel Information (Y/N)</b>	
Are you seeking authorization to discharge with a mixing zone?	No
Are you seeking authorization to discharge while moving at 6 knots or greater?	Yes
Are you seeking authorization to discharge while moving at under 6 knots?	No
Are you seeking authorization to discharge while in Skagway at Broadway or Ore Docks?	No
<b>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.</b>	
Vessel Name:	Queen Elizabeth
Vessel IMO Number:	9477438
Vessel Gross Tonnage:	90901
Port of Registry:	Hamilton Bermuda
Maximum Passenger Capacity per Voyage:	2175
Maximum Crew Capacity per Voyage:	844
Vessel Draft <sup>1</sup> :	8 Mtrs
Vessel Length in Meters at Waterline <sup>2</sup> :	265.4 Mtrs
<b>Vessel Tracking</b>	
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
Contact's name, email address, and phone number:	Rick Sypeck Desk: [REDACTED] Cell: ([REDACTED]) [REDACTED]

<sup>1</sup> 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.)

<sup>2</sup> Length of Waterline (LWL) under normal load in standard Alaska conditions.

<b>Discharge Port Characteristics</b>			
<b>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.</b>			
Discharge Port Name <sup>3</sup> :	"B" OB - SW052	Location (Starboard/Port):	Stbd
Discharge Port Internal Diameter:	150 mm	Discharge Port Centerline Vertical Distance from Keel:	6.2 Mtr
Discharge Port Distance from Bow at Waterline (normal load):	201.6 Mtr	Discharge Port Centerline Vertical Distance from Waterline (normal load) <sup>4</sup> :	1.8 Mtr
Discharge Port shape (round, oval, square):	Round	Discharge Port Pump Capacity (m <sup>3</sup> /hr) for each Pump <sup>5</sup> :	13.3 M3/Hr
Discharge Port Vertical Angle Relative to Waterline <sup>6</sup> :	90°	Discharge Port Horizontal Angle Relative to Centerline <sup>7</sup> :	90°

<b>Wastewater Discharge Information</b>		
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:	500
	Maximum:	640
	Startup Date:	14/5/19
	Ending date:	29/6/19

<sup>3</sup> Name or identification as used in VSSP and Waste Water Discharge Logbook.

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

<sup>5</sup> 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.

<sup>6</sup> 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).

<sup>7</sup> 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):	Hamworthy Membrane Bioreactor 320 42 CBM MBR (USCG Type II) Including 1 x UV at final output of our 2 MBR's
	Number of AWTS:	2
	Combined design capacity:	640
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):	
	Combined design capacity:	
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):	
	Combined design capacity:	
Average volume of sewage generation per day in cubic meters;	60Mt	
Maximum volume of sewage generation per day in cubic meters;	80Mt	
Average graywater generation per day in cubic meters for the following sources;	Accommodations: 270 Galley: 100 Laundry: 60 Other (list types and volumes):	
Maximum graywater generation per day in cubic meters for the following sources;	Accommodations 350 Galley 115 Laundry 170 Other (list types and volumes):	

<p>The method of handling and disposal of sludge and biosolids produced from the treatment of sewage and graywater.</p> <p>Pre-Treatment dry waste (filtered inorganic solids) will incinerated or landed ashore.</p> <p>Sewage sludge and biomass from sewage treatment plants and AWWTS: &gt;12NM from the baseline &amp; &gt;6Kts</p>	
<p><b>Signature and Certification for NOI</b></p> <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 information, including the possibility of fines and imprisonment for knowing violations.</p>	
<p>Signature of Responsible Corporate Officer</p> 	<p>Printed Name</p> 
<p>Title/Company</p> 	<p>Date</p> 
<p><b>Submit this Notice of Intent to:</b></p> <p style="text-align: center;"> <b>Commercial Passenger Vessel Environmental Compliance Program</b>  <b>Division of Water</b>  <b>Alaska Dept. of Environmental Conservation</b>  <b>PO Box 111800</b>  <b>Juneau, AK 99811-1800</b> </p>	

