THE STATE of ALASKA
GOVERNOR MICHAEL J. DUNLEAVY

Department of Environmental Conservation

DIVISION OF WATER

Commercial Passenger Vessel Environmental Compliance Program
410 Willoughby Ave, Ste 303
PO Box 111800
Juneau, Alaska 99811-1800
Main: 907-465-5300
Fax: 907-465-5274

April 12, 2019

Mr. John Hanley
Royal Caribbean Cruises, Ltd.
1050 Caribbean Way
Miami, FL 33132

ADEC File Number 920.45.003
Re: **Authorization to Discharge 2013DB0004-0033, Celebrity Millennium**

Dear Mr. Hanley:

The Alaska Department of Environmental Conservation (DEC) authorizes operation of the *Celebrity Millennium* under the Large Commercial Passenger Vessel Wastewater Discharge General Permit No 2013DB0004 (hereinafter 2014 GP), and has issued the enclosed Authorization 2013DB0004-0033.

DEC reviewed your Notice of Intent (NOI) and other related documentation that Royal Caribbean Cruises Ltd. submitted on April 8, 2019 for the *Celebrity Millennium*. Based upon that review, DEC authorizes the *Celebrity Millennium* for underway discharge of treated wastewater into Alaska marine waters. Based on computer modeling and very limited previous sample data the authorization includes a temporary ammonia limit of 75 mg/L. This limit will be reviewed and may be removed based on sample data collected in 2019. The *Celebrity Millennium* must take samples and meet the effluent limits found in Tables 3 and 5 of the 2014 GP if discharging into Alaskan waters. All other permit conditions and deadlines must be met. Any changes made to the wastewater treatment installation or sampling port 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 or (907) 465-5138.

Sincerely,

Edward E. White

Edward White
CPVEC (Cruise Ship) Program Manager

Enclosure: Authorization 2013DB0004-0033

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: 2013DB0004-0033

***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 12, 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:	Celebrity Millennium c/o Royal Caribbean Cruises Ltd.

SECTION 2 – FACILITY INFORMATION	
ADEC File Number:	920.45.003
Authorization Number	*2013DB0004-0033*
Facility Name:	Celebrity Millennium
Type of Facility	Large Commercial Passenger Vessel
Type of Wastewater Authorized for Discharge:	Treated wastewater
Type of Wastewater Treatment System:	Hydroxyl Systems AWP CB-100, Build 2007 Type II AWTS
Type of Authorization:	Authorized for discharge of wastewater treated through a Hydroxyl Type II AWTS configuration as approved by the Department in the current Vessel Specific Sampling Plan while underway at speeds greater than 6 knots.

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 and Notice of Intent.
Effluent Limitations	Ammonia limit of 75 mg/L, for all other limits Table 3 of the General Permit for discharges underway at speeds greater than 6 knots.
Special Conditions:	None
Monitoring Requirements	Table 5 of the General Permit, and any other applicable monitoring requirements in the General Permit
Discharge Monitoring Report (DMR)	The Celebrity Millennium must submit a monthly DMR with effluent limits that is available on the Department's website 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.
Skagway Discharge at Ore or Broadway Docks	Not authorized.
SECTION 5 – ADDITIONAL TERMS AND CONDITIONS (GP 4.3.2)	
Ammonia limit	Daily Maximum of 75 mg/L for ammonia.

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

SECTION 6 – CERTIFICATION/SIGNATURE

Edward E. White
Signature

4/12/2019
Date

Edward E White
Printed Name

EPM I, ADEC CPVEC
Title

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: Celebrity Millennium Inc. c/o RCL Cruises, Ltd	
Mailing Address: Building 3, The Heights, Brooklands Weybridge, Surrey KT13ONY United Kingdom	Phone: +[redacted]
Representative: Manolis Kasselas	Email: [redacted]
Vessel Owner's or Operator's Alaska Agent Information	
Company Name: RCL Cruises, Ltd.	
Mailing Address: Building 3, The Heights, Brooklands Weybridge, Surrey KT13ONY United Kingdom	Phone: [redacted]
Representative: Manolis Kasselas &John Hanley	Email: [redacted] Email: [redacted]
Vessel Operator's Business Name if Different From the Owner's Business Name	
Vessel Operator's Business Name: RCL Cruises Ltd.	
Mailing Address: Building 3, The Heights, Brooklands Weybridge, Surrey KT13ONY United Kingdom	Phone: [redacted]

Representative: Manolis Kasselas & John Hanley	Email: [redacted] Email:

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:	Celebrity Millennim
Vessel IMO Number:	9189419
Vessel Gross Tonnage:	90963
Port of Registry:	Valletta Malta
Maximum Passenger Capacity per Voyage:	2593
Maximum Crew Capacity per Voyage:	1001
Vessel Draft[1]:	8.323
Vessel Length in Meters at Waterline[2]:	262.93
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 1050 Harbor Way Juneau, AK 99801
Contact's name, email address, and phone number:	Rick Sypeck Maritime Information Specialist Marine Exchange of Alaska [redacted]

[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.

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]:	E	Location (Starboard/Port):	Port
Discharge Port Internal Diameter:	10 inches	Discharge Port Centerline Vertical Distance from Keel:	3.5 m
Discharge Port Distance from Bow at Waterline (normal load):	158 m	Discharge Port Centerline Vertical Distance from Waterline (normal load)[4]:	4.8 m
Discharge Port shape (round, oval, square):	Round	Discharge Port Pump Capacity (m^3/hr) for each Pump[5]:	150 m3/hr
Discharge Port Vertical Angle Relative to Waterline[6]:	90	Discharge Port Horizontal Angle Relative to Centerline[7]:	Approx 10

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:	650 m3
	Maximum:	750 m3
	Startup Date:	May 10, 2019
	Ending date:	September 08, 2019

[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).

<table>
<tr><td rowspan="3">The type, number, and combined maximum design capacity in cubic meters per 24-hour period of all advanced wastewater treatment systems (AWTS) onboard;</td><td>Type (s) (including manufacturer, model name, model number, and year built):</td><td>AWP
CB-100
Hydroxl System INC. August 20, 2007</td></tr>
<tr><td>Number of AWTS:</td><td>1</td></tr>
<tr><td>Combined design capacity:</td><td>1000 m3/day</td></tr>
<tr><td>Type(s) of sewage treatment and system capacity in cubic meters per 24-hour period;</td><td colspan="2">Type (s) (including manufacturer, model name, model number, and year built):
AWP CB-100 Hydroxl System, August 20 , 2007 1000 m3 / day</td></tr>
<tr><td>Type(s) of graywater treatment and system capacity in cubic meters per 24-hour period;</td><td colspan="2">Type (s) (including manufacturer, model name, model number, and year built):
AWP CB-100 Hydroxl System, August 20 , 2007 1000 m3 / day</td></tr>
<tr><td>Average volume of sewage generation per day in cubic meters;</td><td colspan="2">40 m3</td></tr>
<tr><td>Maximum volume of sewage generation per day in cubic meters;</td><td colspan="2">50 m3</td></tr>
<tr><td>Average graywater generation per day in cubic meters for the following sources;</td><td colspan="2">Accommodations: 200 m3
Galley: 250 m3
Laundry: 120 m3
Other (list types and volumes):
Recreational Water Facilities: 50 m3
Washing of decks and general maintenance: 30 m3</td></tr>
<tr><td>Maximum graywater generation per day in cubic meters for the following sources;</td><td colspan="2">Accommodations: 250 m3
Galley: 300 m3
Laundry: 150 m3
Other (list types and volumes):
Recreational Water Facilities: 50 m3
Washing of decks and general maintenance: 50 m3</td></tr>
<tr><td colspan="3">The method of handling and disposal of sludge and bio solids produced from the treatment of sewage and graywater.
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.</td></tr>
</table>

Signature and Certification for NOI	
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.	
Signature of Responsible Corporate Officer	Printed Name
Title/Company	Date
Submit this Notice of Intent to:	

Commercial Passenger Vessel Environmental Compliance Program
Division of Water
Alaska Dept. of Environmental Conservation
PO Box 111800
Juneau, AK 99811-1800