CRUISE SHIP DISCHARGES

MEMORANDUM OF UNDERSTANDING
CRUISE OPERATIONS IN WASHINGTON STATE

Amy Jankowiak
Compliance Specialist, Water Quality Program

DEPARTMENT OF ECOLOGY
State of Washington
COMPLIANCE 2013-14

- Port Calls
  - All port calls by CLIA-NWC vessels
- Discharge Approvals
  - None requested, none approved
- Inspections
- Sampling Data – none required
- Annual Compliance/Non-compliance notifications
Vessel Summary 2013

- 186 port calls
- 15 vessels
- 9 vessels homeported
- 9 AWTS installed, 4 unknown, 2 traditional MSDs
Vessel Summary 2014

- 178 port calls
- 15 vessels
- 9 vessels homeported
- 12 AWTS installed, 1 unknown, 2 traditional MSDs
COMPLIANCE EVALUATION

- Monthly Sampling Data
  - No vessels approved for discharges, no monitoring required or received for WA MOU waters
- WET Testing
  - None required for 2013-14
- Inspections
  - Allowed for all vessels under MOU at least once/season to verify compliance with MOU
- Compliance/Non-Compliance Notifications
  - 2 incidents reported, one each season
- Annual Compliance Reports
Inspections

• Typical Inspection includes
  – Introductions/overview of plan for the day (prior notification given)
  – Control room
    • Run-through of how system works
    • Variety of questions on staffing, training, protocols...
    • Review of records
  – Tour of treatment system(s)
  – Observations of other waste streams on the ship
  – Conclude

  – Approximately 2-3 hours in length
  – Similar to inspections for on-land plants
2013 Inspections/Document Review

- **Inspections Conducted**
  - 4 inspections conducted

- **Inspection findings**
  - Discharge protocols thorough on some vessels.
  - One non-compliance follow-up conducted.
  - Recommendations made –
    - Continue to work towards high functioning wastewater treatment systems.
    - One vessel to review pharmaceutical disposal policy for CLIA consistency.
    - One vessel - follow clear protocols to avoid unauthorized discharges and assure that all new/returning staff are clear on the communication requirements and protocols for discharges.

- **Copies of discharge documents requested/reviewed**
  - Requested, received, reviewed, no inconsistencies with MOU requirements found beyond those reported.

<table>
<thead>
<tr>
<th>DATE OF INSPECTION</th>
<th>VESSEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>August 5, 2013</td>
<td>OCEANIA REGATTA</td>
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<tr>
<td>August 23, 2013</td>
<td>CELEBRITY SOLSTICE</td>
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<tr>
<td>September 8, 2013</td>
<td>GOLDEN PRINCESS</td>
</tr>
<tr>
<td>September 10, 2013</td>
<td>CARNIVAL MIRACLE</td>
</tr>
</tbody>
</table>
2014 Inspections/Document Review

- **Inspections Conducted**
  - 5 inspections conducted

- **Inspection findings**
  - Discharge protocols thorough with verification; waste minimization improvements
  - Recommendations made –
    - Continue to work towards high functioning wastewater treatment systems.
    - A recommendation to one vessel to look into evaluating alternate dry cleaning methods

- **Copies of discharge documents requested/reviewed**
  - Requested, received, reviewed, no inconsistencies with MOU requirements found beyond those reported.

<table>
<thead>
<tr>
<th>DATE OF INSPECTION</th>
<th>VESSEL</th>
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<tbody>
<tr>
<td>July 31, 2014</td>
<td>OCEANIA REGATTA</td>
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<td>August 2, 2014</td>
<td>NORWEGIAN JEWEL</td>
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<td>August 8, 2014</td>
<td>RHAPSODY OF THE SEAS</td>
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<td>September 7, 2014</td>
<td>HOLLAND AMSTERDAM</td>
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<td>September 15, 2014</td>
<td>CROWN PRINCESS</td>
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2013 Compliance Notifications

• Non-Compliance notifications
  – Golden Princess
    • Discharge of MBR treated effluent on May 19, 2013 without prior authorization
    • Princess Cruises promptly notified and provided information, reviewed during inspection
    • Violation of MOU
    • Cause – Communication failure between Bridge and ECR staff
    • Prevention – Communication improvements, cross-checking, vigilance

• Annual Compliance letters
  – All received
Approximate path of discharge
Golden Princess
May 19, 2013
2014 Compliance Notifications

• Non-Compliance notifications
  – Oceania Regatta
    • Discharge of untreated grey water and treated sewage/grey water in OCNMS on August 26-27, 2014
    • Notified promptly
    • Violation of OCNMS laws, NOAA investigating
    • Prior inspection very clear on protocol to not discharge

• Annual Compliance letters
  – All received
AIS tracking data showing approximate path of discharge.

Oceania Regatta August 26-27, 2014

Olympic Coast National Marine Sanctuary with approximate path of discharge.
Amy Jankowiak, Municipal Compliance & Vessel Sewage Prevention Specialist, NWRO
(425) 649-7195
amy.jankowiak@ecy.wa.gov

Ecology Website:
http://www.ecy.wa.gov/ecyhome.html

Cruise Ship Website: