Ruby Princess

Cruise Ship Operations Tour

9-26-18

Keith Rootsaoert
Ruby Princess
Guest Capacity: 3,080 lower berths.
Tonnage: 113,561.
Inaugural Cruise: November 8, 2008.
Builder: Fincantieri Cantieri Navali Italiani, Monfalcone, Italy
Number of Crew: 1,200.
Number of Guests: 3500.
Registry: Bermuda.
Length: 951 feet.
Height: 195 feet.
Beam: 159 feet
Draft: 27 feet.

Monterey Bay National Marine Sanctuary Advisory Council and NOAA staff
Objective: Observe cruise ship operations that would have an effect on the Sanctuary water and air quality.

Presentation by Jim Peschel
Pollution prevention program for all ships.
Regulations regarding discharge.

Tour
Engine room
Desal / RO plant
Waste, bilge, & ballast water treatment
Solid Waste Sorting

Lunch
**Number of Decks:** 19

**Guest Cabins:** 1,542 (1,106 outside/436 inside) total:
- 26 Suites with private balconies
  - (Square footage: 461-687*)
- 2 Family suites with interconnecting cabins
  - (Square footage: 607*)
- 178 Mini-suites with private balconies
  - (Square footage: 324*)
- 682 Balcony cabins
  - (Square footage: 233-285*)
- 218 Ocean view cabins
  - (Square footage: 158-182)
- 436 Inside cabins
  - (Square footage: 163) (*includes balcony)

**Wheelchair Accessible Cabins:** 31 (1 suite, 4 mini-suite, 16 balcony, 4 outside, 6 insides)

**Cabins with Private Balconies:** 882 (80 percent of all outside cabins)
Shaft between 12 MW engine and Generator

Med Voltage 11,000 V
Low Voltage 600 V
Hotel Load: 10 MW
6 engines total
2 mains operating at 24MW to reach cruising speed of 20 kts.

Oil cooled transformers with HEX
(4) 700 Ton centrifugal chillers

Under deck piping

Heat exchanger
Fire Water Pump
200 Bar (2900 PSI)

Chilled Water
Primary Pumps

Spare motors
Desalination
Reverse Osmosis
Grey Water Pump
Bilge Water / Ballast Water filtration and UV
No viable organisms. New standard is no living organism.
Discharge upper limit < 15 PPM
Ballast water used in MBNMS is fresh water
No discharge in the MBNMS or other sanctuaries