

# NORTH AMERICAN ECA THE CRUISE LINES' PERSPECTIVE

GREENTECH 2013 CONFERENCE

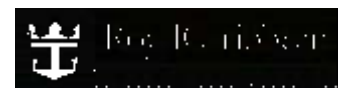
MAY 30, 2013

*GREG WIRTZ*

*PRESIDENT, CLIA NORTH WEST AND CANADA*



# Cruise Line Members



# Canada continues to align air emissions measures with the United States

For release - May 8, 2013



The Honourable Denis Lebel, Minister of Transport, Infrastructure and Communities, Minister of the Economic Development Agency of Canada for the Regions of Quebec and Minister of Intergovernmental Affairs along with Greg Wirtz, president, Cruise Lines International Association – North West and Canada and David Henderson, Vice Chair of Halifax Port Authority at an event to announce regulatory amendments that will reduce air emissions from ships navigating in Canadian waters.

<http://www.tc.gc.ca/eng/mediaroom/releases-2013-h055e-7161.html>

# CLIA - Top Cruise Markets

**Alaska**  
**4.8%**

**Europe (no Med)**  
**10.9%**

**Caribbean**  
**34.4%**

**Mediterranean**  
**21.7%**

**Asia**  
**3.4%**

**South America**  
**3.9%**

**Australasia**  
**5%**

**Other Markets**  
**15.8%**



# North American ECA



# Alaska and the Pacific Northwest





# Alaska Itineraries

## Vancouver – Round Trip



## Vancouver – One Way



## Seattle – Round Trip with Victoria Port Call



# What is at stake?

Sample 7 day itinerary @ 900 mt fuel	IFO 380	1% blend	MDO
Example price / mt	\$680	\$960	\$1,135
Additional fuel cost impact		+\$252,000 +41%	+\$410,000 +67%
Fuel cost impact – per passenger (2,100 pax ship)		\$120	\$195



# MARPOL ANNEX VI

## Alternatives

1. Non-availability of Compliant Fuel Oil for Purchase  
(MARPOL Annex VI, Regulation 18)
2. Compliance through Equivalent Controls  
(MARPOL Annex VI, Regulation 4)
3. Ship Operators Seeking Exception and/or Exemption  
(MARPOL Annex VI, Regulation 3.2)
4. Equipment Casualty or Failure  
(MARPOL Annex VI, Regulation 3)

# MARPOL ANNEX VI

## Regulation 4 - Equivalency

Provides that the ECA requirements can be met by “any fitting, material, appliance, or apparatus to be fitted in a ship or other procedures, alternative fuel oils, or compliance methods used as an alternative” if they are “at least as effective in terms of emission reductions.”

# Cruise Ship Shore Power Installations

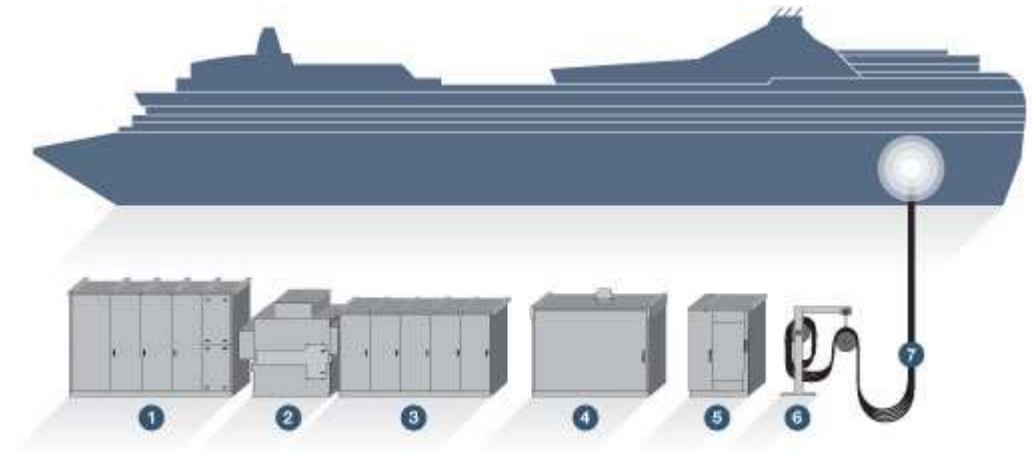


## West Coast:

- Juneau, AK
- Vancouver, BC
- Seattle, WA
- San Francisco, CA
- Los Angeles, CA
- San Diego, CA
- Long Beach, CA

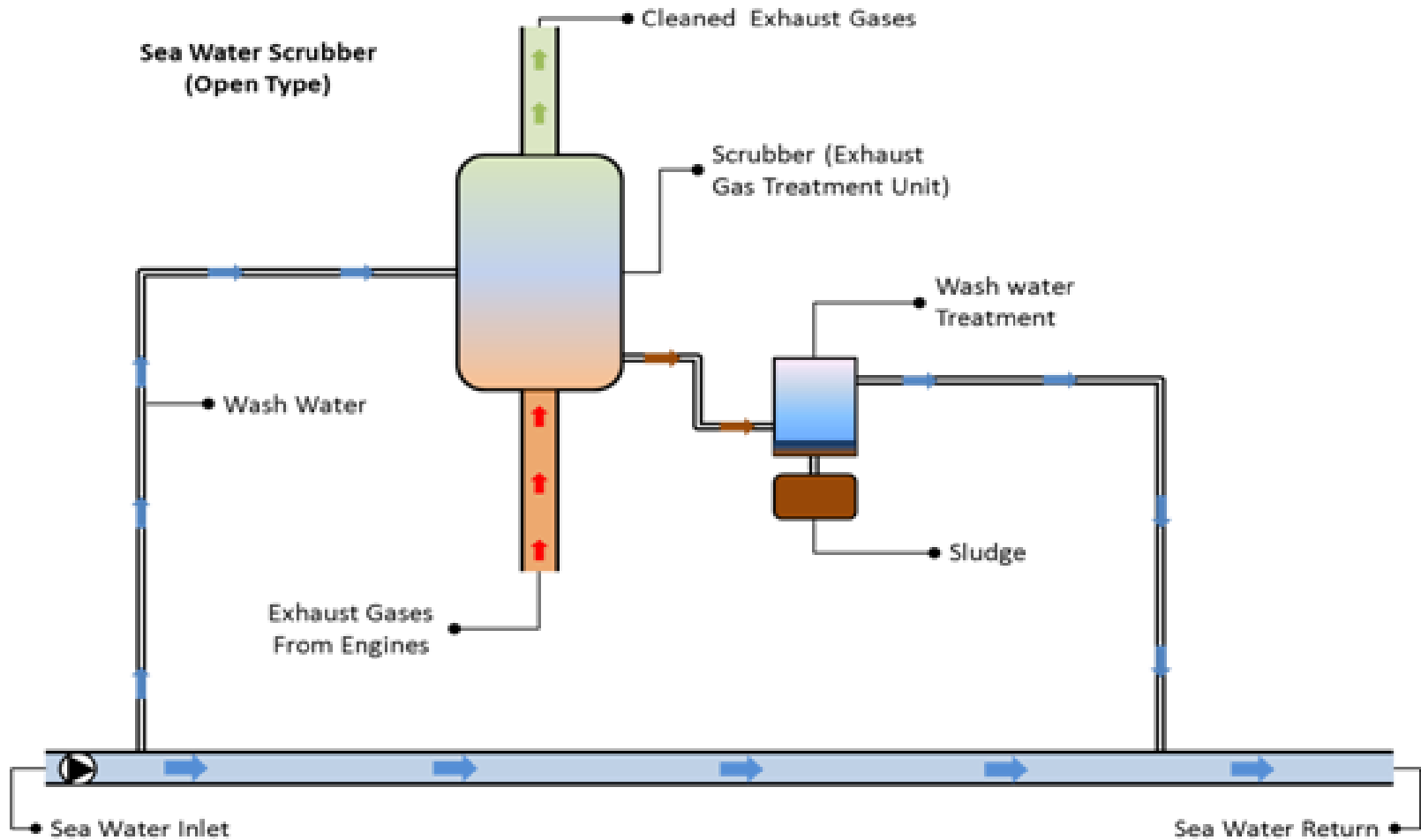
## East Coast:

- Brooklyn, NY
- *Halifax, NS*





# Sea Water Exhaust Scrubber



**THANK YOU**

