

SNAME Symposium on Operating Ships within Emission Control Areas (ECA's) 2010

**San Francisco, California, USA
28-29 April 2010**

ISBN: 978-1-61839-989-2

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2010) by the Society of Naval Architects and Marine Engineers
All rights reserved.

Printed by Curran Associates, Inc. (2012)

For permission requests, please contact the Society of Naval Architects and Marine Engineers
at the address below.

Society of Naval Architects and Marine Engineers
601 Pavonia Avenue
Jersey City, New Jersey 07306

Phone: (201) 798-4800

Fax: (201) 798-4975

www.sname.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

Technical Program

Regulatory Background, Status and Enforcement

EPA's Vessel Emission Control Program 001

Mike Samulski, EPA

Flag & Port State Enforcement 011

CDR Lee Boone, Chief of Domestic Vessel Compliance, USCG

Classification Society Role in the Implementation of Low Sulfur Fuel Regulations 018

Roy Bleiberg, ABS Americas Division

Report on CARB Industry Forum on Operating within the California 24nm Clean Fuel Zone 026

Bonnie Soriano, California Environmental Protection Agency, Air Resources Board

Vessel and Engine Capabilities Required in order to Operate for Extended Periods on Low Sulfur Fuels

Fuel Storage and Handling Systems, and the Costs of Operating in ECA's – Paper 037

Eugene van Rynbach, Herbert Engineering

2 Stroke Diesel Engines — Operating for Extended Periods with Low Sulfur Fuels 077

Kjeld Aabo, MAN Diesel

4 Stroke Diesel Engines — Operating for Extended Periods with Low Sulfur Fuels 097

Additional References: Wartsila service Bulletins

Marine Auxiliary Boilers: Distillate Fuel Conversion Feasibility 109

Kevin Reynolds, The Glosten Associates, and Edward Garrahy, Technical Marine Service

Considerations for Boiler Plant Operation in Connection with Fuel Change to MDO/MGO-Paper 136

Boelo Lussenburg and Kasthuri R. Chelliah, Aalborg Industries Inc.

Fuel and Cylinder Oil Characteristics, Availability, and Quality

Fuel Supply to Meet Existing and Upcoming Emission Regulations 151

Richard Clark, World Fuels

Panel: Fuel switching experiences and current/best practices

Emissions 160

Teekay Corporation, Mark Cameron, Vice President Strategy and Planning

Experience with Distillate Fuel Operations in the CARB zone 168

Chevron Shipping Company, Dave Wall and Chris Brown

Maersk Line's Fuel Switch Experiences in Californian Waters 176

A P Moller-Maersk, Neils Bjorn Mortensen

OGV Clean Fuel Regulation Investigation of Operational Issues Preliminary Findings 185

California Maritime Academy, Robert Jackson

Additional Papers

Changing from HFO to MDO or MGO 193

N/A

Running-in of Cylinder Liners and Piston Rings 197

N/A

Distillate Fuel Use 211

N/A