

SAN DIEGO UNIFIED PORT DISTRICT
MEMORANDUM

Date: April 7, 2010

Subject: Vessel Speed Reduction Program Quarterly Report

The purpose of this memo is to report on the Vessel Speed Reduction Program results for October through December 2009.

Background

In March 2008, the Board of Port Commissioners approved the development of control measures to voluntarily reduce air emissions as part of the Clean Air Program. One of those measures is a Vessel Speed Reduction (VSR) Program (please see the attached fact sheet for further information). The Port's voluntary VSR Program asks that cargo vessels entering or leaving the Port observe a 12-knot speed limit, and cruise ships observe a 15-knot speed limit within 20 nautical miles seaward from Point Loma. While in the VSR zone, a vessel's maximum speed is recorded using a Web-based vessel tracking service to determine VSR Program participation.

Results of this program include emissions reductions from vessel operators choosing to participate, as there is no state or federal regulation mandating for this type of program. Special recognition should be given to the vessel operators that have 90% or greater compliance this quarter: Princess Cruise Lines, Cido Shipping, Dole, Grieg Star Shipping, Nippon Yusen Kaisha, Olendorff Carriers, Pasha Group, and Stamco Ship Management. In particular, Dole, Pasha, and Nippon contribute greatly to the resulting emissions reductions.

Results

From October through December, 59% of all inbound and outbound vessel trips were found to be compliant with the VSR speed limit. By vessel type, 57% of cruise ships and 62% of cargo ships were compliant (see table on page two for compliance by vessel operator). These results reflect a slight decrease from the last reporting period for cruise and cargo ships, wherein 63% of all vessels were compliant.

The VSR Program for this period resulted in a 10-12% reduction in emissions within the VSR zone, depending on the pollutant. Emissions reductions are calculated using vessel type engine specifications. The following emissions reductions are achieved by the participating vessels as compared to the emissions generated traveling at typical cruising speeds in the VSR zone:

Pollutant	Reduction (tons)	% Reduction
NOx	6.6	12%
CO	0.48	11%
PM	0.17	11%
VOC	0.32	11%
CO ₂	261	10%

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The VSR Program results will be shared via the Port's website and a press release issued. Port staff continues to explore additional opportunities to increase participation in this program, primarily through increased public relations. Environmental, Marketing, and Maritime staff are revising outreach and public relations plans for this program. Staff anticipates presenting awards to vessel operators with a 90% participation rate for 12 consecutive months during Green Port Month in September. Please contact Cody Hooven at (619) 686-8162 with any questions.

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**Quarterly Summary Report by Operator
Vessel Speed Reduction
Port of San Diego
October – December 2009**

Operator	Compliant Trips ¹	Non-Compliant Trips	Total Trips with Speed Info	% Compliance ²
Passenger (Cruise)				
Carnival Cruise Lines	52	23	75	69%
Celebrity Cruises Inc.	1	6	7	14%
GAP Adventures	1	1	2	50%
Holland America Line Inc.	19	19	38	50%
Princess Cruise Lines Ltd	2	0	2	100%
Royal Caribbean Cruises Ltd	12	19	31	39%
Silversea Cruises Ltd	3	1	4	75%
Passenger Sub-Total	90	69	159	57%
Cargo				
Abou Merhi Lines SAL	1	1	2	50%
Cido Shipping HK Co Ltd	2	0	2	100%
Cido Shipping Korea Co Ltd	2	0	2	100%
Dole Ocean Cargo Express	23	2	25	92%
EUKOR Car Carriers Inc	5	7	12	42%
Grieg Star Shipping AS	2	0	2	100%
Intermarine LLC	0	2	2	0%
Kawasaki Kisen Kaisha Ltd	6	6	12	50%
Mitsui OSK Lines Ltd	10	20	30	33%
Nippon Yusen Kaisha	11	1	12	92%
Ocean Longevity Shipping	0	1	1	0%
Oldendorff Carriers GmbH & Co	2	0	2	100%
OSM Maritime AS	0	2	2	0%
Pasha Group	12	0	12	100%
Rickmers-Linie	0	2	2	0%
Sanko Steamship Co Ltd	1	1	2	50%
Stamco Ship Management Co Ltd	2	0	2	100%
Wallenius Wilhelmsen Logistics	0	2	2	0%
Zim Integrated Shipping Serv	0	2	2	0%
Cargo Sub-Total	79	49	128	62%
TOTAL	169	118	287	59%

Key: Operators meeting 90% compliance goal are highlighted in green.

¹One trip constitutes an arrival (inbound) or departure (outbound) of a vessel.