

SAN DIEGO UNIFIED PORT DISTRICT

MEMORANDUM

Date: July 29, 2009

Subject: Vessel Speed Reduction Program Quarterly Report

The purpose of this memo is to provide a report on the Vessel Speed Reduction Program results for April - June 2009.

In March 2008, the Board of Port Commissioners approved the development of four voluntary control measures to reduce air emissions as part of the Clean Air Program. One of those measures is a voluntary Vessel Speed Reduction (VSR) Program. 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 limit, both in a zone that extends 20 nautical miles seaward from Point Loma. Each time a vessel calls into port, its maximum speed while in the VSR zone is recorded using a web-based vessel tracking service. Reports of maximum vessel speed are downloaded to determine VSR Program participation.

The period from April through June 2009 represents the first complete quarter of implementation of the VSR Program. During this time there were 27 different vessel operators calling at the Port, with 69% of all inbound and outbound trips found to be compliant with the VSR speed limit. By vessel type, 86% of cruise ship visits and 53% of cargo vessel visits were compliant (see table on page two for compliance by vessel operator). In order for an operator to be considered compliant, 90% of the operator's total vessel visits (inbound and outbound) need to be within the speed limit. For this reporting period, there were three cruise operators and six cargo operators that were compliant.

The VSR Program for this period resulted in about a 10% reduction in emissions from participating vessels. Emissions reductions are calculated using vessel type engine specifications. The following emissions are reductions achieved by the participating vessels as compared to the emissions they would have generated had they been traveling at typical cruising speeds:

Pollutant	Reduction (tons)	% Reduction
NOx	5.5	11%
CO	3.9	11%
PM	3.9	15%
VOC	2.2	10%
CO ₂	224	9.9%

This first quarter of implementation has been very successful. Information on these results will be distributed next week to vessel operators and shared with the public via the Port's website and a press release. Please contact me at (619) 686-8162 or via e-mail at chooven@portofsandigo.org with any questions.

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**Quarterly Summary Report by Operator
Vessel Speed Reduction
Port of San Diego
April-June 2009**

Operator	Compliant Trips¹	Non-Compliant Trips	% Compliance
Passenger (Cruise)			
Carnival Cruise Lines	52	3	95%
Celebrity Cruises Inc.	0	4	0%
Holland America Line Inc.	16	3	84%
NCL Bahamas Ltd	1	1	50%
Princess Cruise Lines Ltd	8	0	100%
Royal Caribbean Cruises Ltd	2	2	50%
Waverley Steam Navigation Co.	1	1	50%
Wilhelmsen Ship Mgmt Ltd-USA	6	0	100%
Passenger Sub-Total	86	14	86%
Cargo			
Beluga Shipping GmbH	0	2	0%
BigLift Shipping BV	2	0	100%
BNavl Ship Management Srl	2	0	100%
Chang Sung Shipping Co Ltd	1	1	50%
Cido Shipping Korea Co Ltd	2	0	100%
Dole Ocean Cargo Express	10	12	45%
Eastern Car Liner	1	3	25%
Grieg Star Shipping AS	4	0	100%
Kawasaki Kisen Kaisha Ltd	0	2	0%
LMS Shipmanagement Inc	1	1	50%
Magsaysay Maritime Corp	2	0	100%
Matson Navigation	0	2	0%
Mitsui OSK Lines Ltd	10	11	48%
Nippon Yusen Kaisha	9	7	56%
PACCship UK Ltd	0	2	0%
Pasha Group	10	4	71%
Rickmers-Linie	0	2	0%
Shoei Kisen Kaisha Ltd	2	0	100%
United Ocean Ship Management	1	1	50%
Cargo Sub-Total	57	50	53%
TOTAL	143	64	69%

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

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