PORT OF LONG BEACH AIR EMISSIONS INVENTORY – 2008

Prepared for:

THE PORT OF LONG BEACH

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Prepared by:

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**ACRONYMS AND ABBREVIATIONS**

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<td>Act</td>
<td>activity</td>
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<tr>
<td>AAPA</td>
<td>American Association of Port Authorities</td>
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<tr>
<td>ABS</td>
<td>American Bureau of Shipping</td>
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<tr>
<td>AMP</td>
<td>alternative maritime power</td>
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<td>AS</td>
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### ACRONYMS AND ABBREVIATIONS (CONT’D)

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<td>goods movement</td>
</tr>
<tr>
<td>GMP</td>
<td>Goods Movement Plan</td>
</tr>
<tr>
<td>GVWR</td>
<td>gross vehicle weight rating</td>
</tr>
<tr>
<td>HC</td>
<td>hydrocarbons</td>
</tr>
<tr>
<td>HDDV</td>
<td>heavy-duty diesel vehicle</td>
</tr>
<tr>
<td>HDV</td>
<td>heavy-duty vehicle</td>
</tr>
<tr>
<td>HFO</td>
<td>heavy fuel oil</td>
</tr>
<tr>
<td>hp</td>
<td>horsepower</td>
</tr>
<tr>
<td>hrs</td>
<td>hours</td>
</tr>
<tr>
<td>HVAC</td>
<td>heating/ventilation/air conditioning</td>
</tr>
<tr>
<td>ICTF</td>
<td>Intermodal Container Transfer Facility</td>
</tr>
<tr>
<td>IFO</td>
<td>intermediate fuel oil</td>
</tr>
<tr>
<td>IMO</td>
<td>International Maritime Organization</td>
</tr>
<tr>
<td>ITB</td>
<td>integrated tug and barge</td>
</tr>
<tr>
<td>kW</td>
<td>kilowatt</td>
</tr>
<tr>
<td>l/cyl</td>
<td>liter per cylinder</td>
</tr>
<tr>
<td>L.A.</td>
<td>Los Angeles</td>
</tr>
<tr>
<td>lbs/day</td>
<td>pounds per day</td>
</tr>
<tr>
<td>LF</td>
<td>load factor</td>
</tr>
<tr>
<td>LLA</td>
<td>low load adjustment</td>
</tr>
<tr>
<td>Lloy’d’s</td>
<td>Lloyd’s Register of Ships</td>
</tr>
<tr>
<td>LNG</td>
<td>liquefied natural gas</td>
</tr>
<tr>
<td>LPG</td>
<td>liquefied petroleum gas</td>
</tr>
<tr>
<td>LSI</td>
<td>large spark ignited (engine)</td>
</tr>
<tr>
<td>M&amp;N</td>
<td>Moffatt &amp; Nichol Engineers</td>
</tr>
<tr>
<td>MarEx</td>
<td>Marine Exchange of Southern California</td>
</tr>
<tr>
<td>MCR</td>
<td>maximum continuous rating</td>
</tr>
<tr>
<td>MDO</td>
<td>marine diesel oil</td>
</tr>
<tr>
<td>MGO</td>
<td>marine gas oil</td>
</tr>
<tr>
<td>Acronym</td>
<td>Definition</td>
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<tr>
<td>----------</td>
<td>-------------------------------------------------</td>
</tr>
<tr>
<td>MMA</td>
<td>Meyer, Mohaddes Associates, Inc.</td>
</tr>
<tr>
<td>MMGT</td>
<td>million gross ton-miles</td>
</tr>
<tr>
<td>MOU</td>
<td>Memorandum of Understanding</td>
</tr>
<tr>
<td>mph</td>
<td>miles per hour</td>
</tr>
<tr>
<td>MS</td>
<td>maximum speed</td>
</tr>
<tr>
<td>MMGT</td>
<td>million gross ton-miles</td>
</tr>
<tr>
<td>MY</td>
<td>model year</td>
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<tr>
<td>MTC</td>
<td>Marine Terminals Corporation</td>
</tr>
<tr>
<td>N</td>
<td>north</td>
</tr>
<tr>
<td>NAAQS</td>
<td>National Ambient Air Quality Standards</td>
</tr>
<tr>
<td>nm</td>
<td>nautical miles</td>
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<tr>
<td>NO\textsubscript{x}</td>
<td>oxides of nitrogen</td>
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<tr>
<td>NPRM</td>
<td>Notice of Proposed Rulemaking</td>
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<tr>
<td>NYK</td>
<td>Nippon Yusen Kaisha</td>
</tr>
<tr>
<td>OBD</td>
<td>on-board diagnostics</td>
</tr>
<tr>
<td>OGV</td>
<td>ocean-going vessel</td>
</tr>
<tr>
<td>PCST</td>
<td>Pacific Cruise Ship Terminals</td>
</tr>
<tr>
<td>PHL</td>
<td>Pacific Harbor Line</td>
</tr>
<tr>
<td>PM</td>
<td>particulate matter</td>
</tr>
<tr>
<td>PM\textsubscript{10}</td>
<td>particulate matter less than 10 microns in diameter</td>
</tr>
<tr>
<td>PM\textsubscript{2.5}</td>
<td>particulate matter less than 2.5 microns in diameter</td>
</tr>
<tr>
<td>PMSA</td>
<td>Pacific Merchant Shipping Association</td>
</tr>
<tr>
<td>POLA</td>
<td>Port of Los Angeles</td>
</tr>
<tr>
<td>POLB</td>
<td>Port of Long Beach</td>
</tr>
<tr>
<td>ppm</td>
<td>parts per million</td>
</tr>
<tr>
<td>PZ</td>
<td>precautionary zone</td>
</tr>
<tr>
<td>Reefer</td>
<td>refrigerated vessel</td>
</tr>
<tr>
<td>RH</td>
<td>relative humidity</td>
</tr>
<tr>
<td>RIA</td>
<td>Regulatory Impact Analysis</td>
</tr>
<tr>
<td>RO</td>
<td>residual oil</td>
</tr>
<tr>
<td>ROG</td>
<td>reactive organic gases</td>
</tr>
<tr>
<td>Ro-Ro</td>
<td>roll-on/roll-off vessel</td>
</tr>
<tr>
<td>RMG</td>
<td>rail-mounted gantry crane</td>
</tr>
<tr>
<td>rpm</td>
<td>revolutions per minute</td>
</tr>
<tr>
<td>RSD</td>
<td>Regulatory Support Document</td>
</tr>
<tr>
<td>RTG</td>
<td>rubber tired gantry crane</td>
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</table>
ACRONYMS AND ABBREVIATIONS (CONT'D)

RTL rich text language
S sulfur
SCAG Southern California Association of Governments
SCAQMD South Coast Air Quality Management District
SFC specific fuel consumption
SoCAB South Coast Air Basin
SOx oxides of sulfur
SPB San Pedro Bay
SSA Stevedoring Services of America
SUV sport utility vehicle
T&M tampering and mal-maintenance
TEU twenty-foot equivalent unit
TICTF Terminal Island Container Transfer Facility
TOG total organic gases
tpd tons per day
tpy tons per year
UDDS Urban Dynamometer Driving Schedule
U.S. United States
ULCC ultra large crude carriers
ULSD ultra low sulfur diesel
UP Union Pacific Railroad
USCG U.S Coast Guard
VBP vessel boarding program
VLCC very large crude carrier
VLCS very large cargo ship
VMT vehicle miles of travel
VOC volatile organic compounds
VSR vessel speed reduction
VTS vessel traffic service
W west
ZH zero hour
ZMR zero mile rate