

SAN PEDRO BAY STANDARDS

The San Pedro Bay Standards establish the long-term emissions-reduction and health risk-reduction goals for the ports of Los Angeles and Long Beach.



- Emission Reduction Standard for DPM, NO_x, and SO_x have target years of 2014 and 2023 to support state ambient air quality goals.
- Health Risk Reduction Standard has a target year of 2020 to align with California Air Resources Board's Goods Movement Emission Reduction Plan.

Clean Air Action Plan (CAAP) Goals (% reduction compared to 2005)	CY 2005-2015	
	2014	2023
DPM	72%	77%
NO _x	22%	59%
SO _x	93%	93%

Health Risk Reduction Standard 2020 85%
(% reduction in residential cancer risk compared to 2005)

OVERALL EMISSIONS REDUCTIONS CY 2005-2015



Pollutant	CY 2005-2015	
	%	tons
DPM	85%	743
PM _{2.5}	83%	683
PM ₁₀	84%	801
NO _x	51%	8,324
SO _x	97%	4,824

EMISSIONS PER 10,000 TEU HANDLED REDUCTIONS



Pollutant	CY 2005-2015	
	%	tons
DPM	86%	1.01
PM _{2.5}	84%	0.93
PM ₁₀	85%	1.09
NO _x	55%	12
SO _x	98%	6.46

OCEAN-GOING VESSEL EMISSIONS REDUCTIONS



Pollutant	CY 2005-2015	
	%	tons
DPM	87%	406
PM _{2.5}	84%	364
PM ₁₀	86%	465
NO _x	29%	1,511
SO _x	97%	4,673

HEAVY-DUTY VEHICLE/CLEAN TRUCK EMISSIONS REDUCTIONS



Pollutant	CY 2005-2015	
	%	tons
DPM	97%	241
PM _{2.5}	97%	230
PM ₁₀	97%	240
NO _x	70%	4,411
SO _x	91%	41

HARBOR CRAFT EMISSIONS REDUCTIONS



Pollutant	CY 2005-2015	
	%	tons
DPM	45%	25
PM _{2.5}	45%	23
PM ₁₀	45%	25
NO _x	37%	493
SO _x	89%	6

RAIL EMISSIONS REDUCTIONS



Pollutant	CY 2005-2015	
	%	tons
DPM	47%	26
PM _{2.5}	48%	25
PM ₁₀	47%	26
NO _x	52%	893
SO _x	99%	97

CARGO HANDLING EQUIPMENT EMISSIONS REDUCTIONS



Pollutant	CY 2005-2015	
	%	tons
DPM	86%	46
PM _{2.5}	83%	41
PM ₁₀	83%	45
NO _x	65%	1,016
SO _x	81%	8

CO₂ EQUIVALENT EMISSIONS BY SOURCE TYPE



Source Type	CY 2005-2015	
	%	tons
Ocean-Going Vessels	13%	38,531
Harbor Craft	-7%	-4,088
Cargo Handling Equipment	-27%	-36,090
Rail	17%	13,769
Heavy-Duty Vehicles	19%	87,522
TOTAL	10%	99,644

PRIMARY POLLUTANTS DEFINED:
DPM = Diesel Particulate Matter
NO_x = Oxides of Nitrogen

SO_x = Oxides of Sulfur
PM_{2.5} = Particulate Matter less than 2.5 microns in diameter
PM₁₀ = Particulate Matter less than 10 microns in diameter

CO₂ = Carbon Dioxide
(A Green House Gas contributor)