

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.

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Emission Reduction Standard for DPM, NOx, and S	Ох
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 CARB's Goods Movement Emission Reduction Plan.

	Clean Air Action Plan (CAAP) Goals (% reduction compared to 2005)	2014	2023
12	DPM	72%	77%
1	NO _x	22%	59%
14	SO _x	93%	93%
ndinen Selecter	Health Risk Reduction Standard	2020	85%

6 reduction in residential cancer risk compared to 2005)

OVERALL EMISSIONS REDUCTIONS CY 2005-2014

		CY 20	05-2014
	Pollutant		tons
10-2-1 CT	DPM	85%	749
	PM _{2.5}	83%	691
	PM10	84%	810
	NO _x	52%	8,442
Sec. Street	SO _x	97%	4,819

EMISSIONS PER 10,000 TEU HANDLED

	CY 20	05-2014
Pollutant		tons
DPM	86%	1.02
PM _{2.5}	85%	0.94
PM10	86%	1.10
NO _x	57%	12.34
SOx	98%	6.46

OCEAN-GOING VESSEL EMISSIONS REDUCTIONS

	CY 2005-2014	
Pollutant		tons
DPM	87%	412
PM _{2.5}	85%	372
PM ₁₀	87%	474
NO _x	31%	1,641
SO _x	97%	4,668

HEAVY-DUTY VEHICLE/CLEAN TRUCK EMISSIONS REDUCTIONS

	CY 2005-2		5-2014
- 5 -	Pollutant		tons
	DPM	97%	241
	PM _{2.5}	97%	230
	PM10	97%	240
	NO _x	71%	4,496
	SOx	91%	41

HARBOR CRAFT EMISSIONS REDUCTIONS

903.000.6000 3.000.000.000.000.000.00		CY 2005-2014	
	Pollutant		tons
	DPM	47%	26
	PM _{2.5}	47%	24
	PM ₁₀	47%	26
COLOROS-	NO _x	39%	517
	SO _x	90%	6

RAIL EMISSIONS REDUCTIONS

A Real Property lines of the		CY 2005-2014	
	Pollutant		tons
	DPM	49%	28
	PM _{2.5}	51%	27
	PM _{x10}	49%	28
	NO _x	52%	893
	SOx	99%	97

CARGO HANDLING EQUIPMENT EMISSIONS REDUCTIONS

	CY 2005-2014		5-2014
A COL	Pollutant		tons
	DPM	81%	43
	PM _{2.5}	78%	38
	PM ₁₀	78%	42
	NO _x	57%	895
	SO _x	81%	

CO₂ EQUIVALENT EMISSIONS BY SOURCE TYPE

		CY 2	005-2014
A AA	Source Type		tons
	Ocean-Going Vessels	25%	71,489
	Harbor Craft	2%	1,033
	Cargo Handling Equipment	-27%	-36,120
	Rail	17%	13,884
Arth Hart	Heavy-Duty Vehicles	24%	111,098
Et Ca La Le D	TOTAL	16%	161,383

 $\begin{array}{l} \label{eq:primary pollutants defined:} \textbf{PRIMARY POLLUTANTS DEFINED:} \\ \textbf{DPM} = \textbf{Diesel Particulate Matter} \\ \textbf{NO}_{x} = \textbf{Oxides of Nitrogen} \end{array}$

SO_x = Oxides of Sulfur PMo r = Particulate Matter less than 2.5

 $PM_{2.5}^{2}$ = Particulate Matter less than 2.5 microns in diameter PM_{10}^{2} = Particulate Matter less than 10 microns in diameter

CO2 = Carbon Dioxide (A Green House Gas contributor)