



MAQIP Meeting February 23, 2018  
 Diesel Engine Standards and CA Regulations  
 (grams/brake horsepower-hour)

Year	Drayage Trucks 8,750 (Secure Truck Enrollment Program)		Cargo Handling Equipment 345 on dock; 46 off dock (2017 emissions inventory)		
	NOx	PM	NOx	PM	Example: 173 hp utility tractor rig
1996	5	0.10			
1997			6.9		Tier 1
1998	4	0.10			
2003			~4.7	0.22	Tier 2
2007 (required until 2023)	<b>1.2</b>	<b>0.010</b>	~2.9	0.22	Tier 3
2010 (required 1/1/2023)	0.20	0.010			
2012			<b>0.30</b>	<b>0.015</b>	<b>Tier 4</b>
2015 “low NOx”	0.10, 0.05 or 0.02 Only option LNG/CNG	0.010			
2017 (April)	SB 1 law prohibits new requirements				
March 22, 2018	ARB Board consideration of staff recommendations to minimize community health impacts from large freight facilities				
2022			ARB staff recommends implementation of regulation for transition to ZE operation		
2025	SB 1 law allows ARB to re-evaluate based on ability to meet CA air goals				
2023-2028	ARB staff recommends implementation of regulation for transition to ZE operation				

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