

# Recreational Vehicles, Boats, and Other Evaporative Emission Sources

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2007 SIP Workshop

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## Emissions South Coast 2015 (tpd)

	NOx	ROG
Rec Vehicles	>0	28
Boats	17	54
Other Sources	0	9



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## Rec. Boats & Vehicle Concepts --South Coast 2015 Reductions (tpd)--

<u>Control Concept</u>	Reductions "Up To"	
	<u>NOx</u>	<u>ROG</u>
Tighter Outboard Exhaust Stds.	>0	2
Boat Evaporative Stds.	0	6
Off-hwy. Vehicle Evaporative Stds.	0	2
Off-hwy. Vehicle Exhaust Stds.	0	6



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## Other Evap. Emission Concepts --South Coast 2015 Reductions (tpd)--

<u>Control Concept</u>	Reductions "Up To"	
	<u>NOx</u>	<u>ROG</u>
Refueling Gas Tank Evap. Stds.	0	2
Gas Dispensing Hose Stds.	0	1
Portable Outboard Marine Tank Evap. Stds.	0	3



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## Key Assumptions

- Strive for zero evaporative emissions
- On-road technologies can apply
- Critical element of ozone strategy



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## Next Steps

- Refine strategies based on applying on-road technologies
- Better understand time and place of emissions



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