

Goods' Movement Inventory Analysis Proposal

Overview

The OTC Mobile Source committee has been charged with developing a goods' movement strategy for the OTR. The charge was to develop a strategy that will focus on all aspects of goods' movement throughout the OTR, whether by rail, water, air, or road. In order to develop an efficient strategy, the emissions produced in the different mobile sources involved in goods' movement must be evaluated.

Emissions Inventory

MARAMA, in conjunction with the OTC Modeling committee and the states in the OTR, has been developing a SIP quality emissions inventory for 2007, as well as a projected 2020 inventory. The 2007 inventory, for all sectors, is expected to be completed by the end of March 2011 and the 2020 inventory is expected to be completed by the end of June 2011 for all mobile sectors (the nonroad inventory is already complete for both 2007 and 2020). The OTC Mobile Source committee will utilize the 2007 & 2020 projected inventory. In the case where the onroad mobile portion of the 2020 projected inventory has not been completed quickly enough to complete the analysis an adjustment factor would be applied to the 2007 emissions based on EPA's national inventory analysis.

Proposed Process

1. Develop a comprehensive list of source classification codes (SCCs) to include in the analysis.
2. Determine emissions levels for the sources in each SCC based on the 2007 and 2020 inventories, with a focus on emissions during the month of July.
3. Produce a technical evaluation of which source types are the most important to control as part of a comprehensive goods' movement strategy.

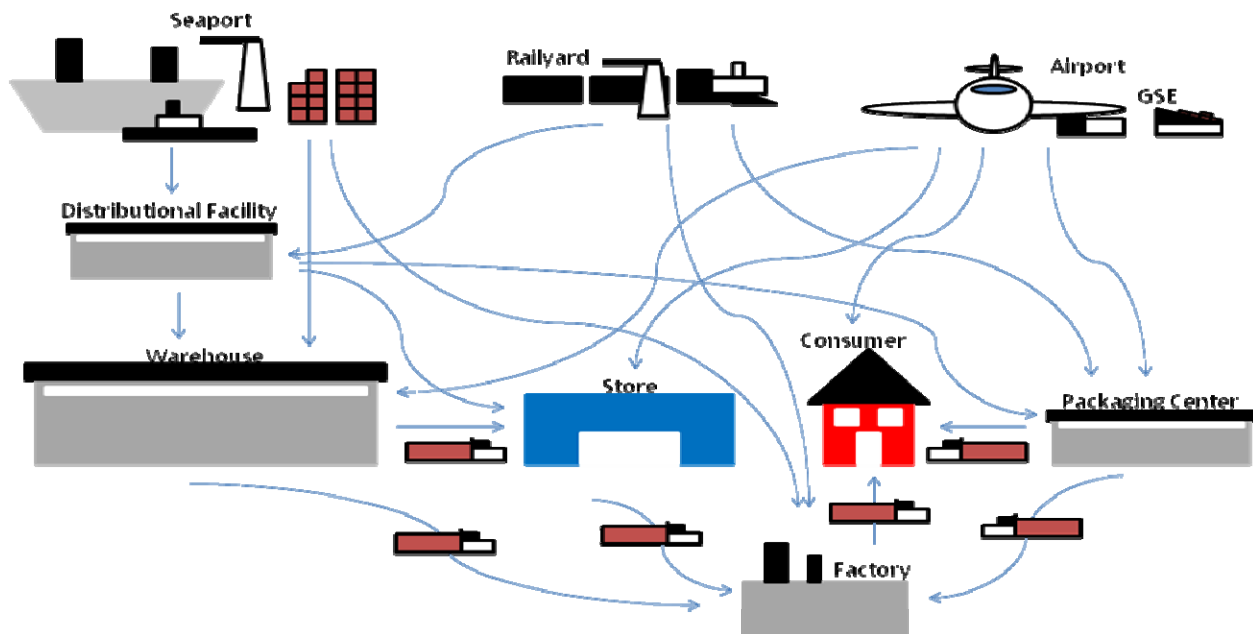


Figure 1: Goods' Movement

Proposed Source Code List**Table 1: Railyard SCCs**

SCC	Description	Inventory Area
2285002005	Railroad Equipment; Diesel; Line Haul Locomotives (use subdivisions by class/operation)	MAR
2285002006	Railroad Equipment; Diesel; Line Haul Locomotives: Class I Operations	MAR
2285002007	Railroad Equipment; Diesel; Line Haul Locomotives: Class II / III Operations	MAR
2285002010	Railroad Equipment; Diesel; Yard Locomotives	MAR

Table 2: Marine Port SCCs

SCC	Description	Inventory Area
2260002027	Off-highway Vehicle Gasoline, 2-Stroke; Construction and Mining Equipment; Signal Boards/Light Plants	NMIM
2260003030	Off-highway Vehicle Gasoline, 2-Stroke; Industrial Equipment; Sweepers/Scrubbers	NMIM
2260006005	Off-highway Vehicle Gasoline, 2-Stroke; Commercial Equipment; Generator Sets	NMIM
2260006015	Off-highway Vehicle Gasoline, 2-Stroke; Commercial Equipment; Air Compressors	NMIM
2265002015	Off-highway Vehicle Gasoline, 4-Stroke; Construction and Mining Equipment; Rollers	NMIM
2265002027	Off-highway Vehicle Gasoline, 4-Stroke; Construction and Mining Equipment; Signal Boards/Light Plants	NMIM
2265002045	Off-highway Vehicle Gasoline, 4-Stroke; Construction and Mining Equipment; Cranes	NMIM
2265002057	Off-highway Vehicle Gasoline, 4-Stroke; Construction and Mining Equipment; Rough Terrain Forklifts	NMIM
2265002060	Off-highway Vehicle Gasoline, 4-Stroke; Construction and Mining Equipment; Rubber Tire Loaders	NMIM
2265002072	Off-highway Vehicle Gasoline, 4-Stroke; Construction and Mining Equipment; Skid Steer Loaders	NMIM
2265003010	Off-highway Vehicle Gasoline, 4-Stroke; Industrial Equipment; Aerial Lifts	NMIM
2265003020	Off-highway Vehicle Gasoline, 4-Stroke; Industrial Equipment; Forklifts	NMIM
2265003030	Off-highway Vehicle Gasoline, 4-Stroke; Industrial Equipment; Sweepers/Scrubbers	NMIM
2265003070	Off-highway Vehicle Gasoline, 4-Stroke; Industrial Equipment; Terminal Tractors	NMIM
2265006005	Off-highway Vehicle Gasoline, 4-Stroke; Commercial Equipment; Generator Sets	NMIM
2265006015	Off-highway Vehicle Gasoline, 4-Stroke; Commercial Equipment; Air Compressors	NMIM
2265006025	Off-highway Vehicle Gasoline, 4-Stroke; Commercial Equipment; Welders	NMIM
2267003010	LPG; Industrial Equipment; Aerial Lifts	NMIM
2267003020	LPG; Industrial Equipment; Forklifts	NMIM
2267003030	LPG; Industrial Equipment; Sweepers/Scrubbers	NMIM
2267003070	LPG; Industrial Equipment; Terminal Tractors	NMIM
2268003020	CNG; Industrial Equipment; Forklifts	NMIM
2268003030	CNG; Industrial Equipment; Sweepers/Scrubbers	NMIM
2268003070	CNG; Industrial Equipment; Terminal Tractors	NMIM
2270002015	Off-highway Vehicle Diesel; Construction and Mining Equipment; Rollers	NMIM
2270002027	Off-highway Vehicle Diesel; Construction and Mining Equipment; Signal Boards/Light Plants	NMIM
2270002036	Off-highway Vehicle Diesel; Construction and Mining Equipment; Excavators	NMIM
2270002045	Off-highway Vehicle Diesel; Construction and Mining Equipment; Cranes	NMIM
2270002051	Off-highway Vehicle Diesel; Construction and Mining Equipment; Off-highway Trucks	NMIM
2270002057	Off-highway Vehicle Diesel; Construction and Mining Equipment; Rough Terrain Forklifts	NMIM
2270002060	Off-highway Vehicle Diesel; Construction and Mining Equipment; Rubber Tire Loaders	NMIM

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2270002072	Off-highway Vehicle Diesel; Construction and Mining Equipment; Skid Steer Loaders	NMIM
2270003010	Off-highway Vehicle Diesel; Industrial Equipment; Aerial Lifts	NMIM
2270003020	Off-highway Vehicle Diesel; Industrial Equipment; Forklifts	NMIM
2270003030	Off-highway Vehicle Diesel; Industrial Equipment; Sweepers/Scrubbers	NMIM
2270003070	Off-highway Vehicle Diesel; Industrial Equipment; Terminal Tractors	NMIM
2270006005	Off-highway Vehicle Diesel; Commercial Equipment; Generator Sets	NMIM
2270006015	Off-highway Vehicle Diesel; Commercial Equipment; Air Compressors	NMIM
2270006025	Off-highway Vehicle Diesel; Commercial Equipment; Welders	NMIM
2280002020	Marine Vessels, Commercial; Diesel; Harbor Vessels	MAR
2280002030	Marine Vessels, Commercial; Diesel; Fishing Vessels	MAR
2280002100	Marine Vessels, Commercial; Diesel; Port emissions	MAR
2280003100	Marine Vessels, Commercial; Residual; Port emissions	MAR

Table 3: Airport SCCs

SCC	Description	Inventory Area
2265008005	Off-highway Vehicle Gasoline, 4-Stroke; Airport Ground Support Equipment; Generator Sets	MAR
2267008005	LPG; Airport Ground Support Equipment; Generator Sets	MAR
2268008005	CNG; Airport Ground Support Equipment; Generator Sets	MAR
2270008000	Off-highway Vehicle Diesel; Airport Ground Support Equipment; Total	MAR
2270008005	Off-highway Vehicle Diesel; Airport Ground Support Equipment; Generator Sets	MAR
2275020000	Aircraft; Commercial Aircraft; Total: All Types	MAR
2275050000	Aircraft; General Aviation; Total	MAR
2275050011	Aircraft; General Aviation; Piston	MAR
2275050012	Aircraft; General Aviation; Turbine	MAR
2275060000	Aircraft; Air Taxi; Total	MAR
2275060011	Aircraft; Air Taxi; Piston	MAR
2275060012	Aircraft; Air Taxi; Turbine	MAR
2275070000	Aircraft; Aircraft Auxiliary Power Units; Total	MAR

Table 4: Road SCCs

SCC	Description	Inventory Area
2230072	Heavy Duty Diesel Vehicles (HDDV) Class 3, 4, & 5	MOVES
2230073	Heavy Duty Diesel Vehicles (HDDV) Class 6 & 7	MOVES
2230074	Heavy Duty Diesel Vehicles (HDDV) Class 8A & 8B	MOVES

Stakeholder Comments

The mobile source committee is seeking comments on the preceding SCC lists until the end March 31, 2011.