

**The State of New Jersey
Department of Environmental Protection**

**State Implementation Plan (SIP) Revision for the
Attainment and Maintenance of the
Ozone and Carbon Monoxide
National Ambient Air Quality Standards**

Proposal

**Meeting the Requirements of the
Regional NO_x Cap Program
and
Transportation Conformity Budgets
Related to the Attainment of the
Ozone and Carbon Monoxide
National Ambient Air Quality Standards**

**Appendix VII: Transportation Conformity
Budgets**

September 28, 1999

List of Attachments

- A. Mobile5a_h Input file samples
- B. Mobile 5a_h Ouput file samples
- C. Listing of files available in electronic format

The ozone season transportation conformity budgets were set using the modeling simulations considering the following control programs: Tier I, NLEV, reformulated gasoline, and the Enhanced I/M program as they are expected to exist in the attainment years, 2005 in southern New Jersey and in 2007 in northern New Jersey. The carbon monoxide season transportation conformity budgets were set using the modeling simulations considering the: Tier I, reformulated gasoline and Basic I/M program as they existed on January 1, 1997. Actual wintertime 1996 traffic simulation files were used in the analysis. The implementation of the highway source strategies were estimated using the USEPA's Mobile 5a-H emission factor model and the appropriate travel demand model post-processor for each Metropolitan Planning Organization (MPO) in the State. (Refer to Appendix VI of the Phase I Ozone SIP submittal for a complete discussion of the modeling process.) The New Jersey hybrid inspection program was simulated using the splits presented in Table 1. The results are presented in Table 2.

Table 1: Modeling Split for the New Jersey Inspection Programs

Year	Centralized	Decentralized
1997	68%	32%
2005/2007	80%	20%

Table 2: Transportation Conformity Budget Summary

Ozone Season

	Year	VMT		VOC	NOx
DVRPC	2005	45,041,400	kg	30,306	58,144
			lbs	66,812	128,185
			tons	33.41	64.09
SJTPD	2005	21,938,050	kg	9,700	24,870
			lbs	21,386	54,828
			tons	10.69	27.41
NJTPA	2007	149,097,840	kg	74,731	178,673
			lbs	164,753	393,901
			tons	82.38	196.95

CO Season

			CO
5-County Area 1997	49,722,615	kg	626,357
		lbs	1,380,866
		tons	690.43