

Salem/ Hope Creek Environmental Audit – Post Audit Information

Question #: ENV-79 **Category:** Air

Statement of Question:

Please provide the following:

1. Information in a table showing the sites' (Salem and HCGS) annual Total Air Pollutant Emissions (5 to 10 year period).
2. A graph showing the sites' CO2 air emission rate in tons per megawatt-hour.

Response:

1. Table of total emissions from the Salem and Hope Creek sites for 2004 through 2009 is being provided.
2. Graph of CO2 emissions per MW-hour from the Salem and Hope Creek sites for 2004 through 2009 is being provided.

List Attachments Provided:

1. 2004 to 2009 Pollutant Emissions, PSEG Nuclear LLC
2. Estimated CO2 Emission Rates 2004 to 2009, PSEG Nuclear LLC

**2004 to 2009 Pollutant Emissions
PSEG Nuclear, LLC**

Pollutant	Emissions (tons/yr)					
	2004	2005	2006	2007	2008	2009
CO	11.0	10.6	7.3	10.6	5.8	7.2
NO _x	43.4	41.0	28.2	40.0	22.3	27.2
VOC	1.0	1.0	0.7	1.0	0.6	0.7
CO ₂	18,179	12,449	10,386	19,132	7,972	6,487
Particulates	27.4	35.5	42.9	47.0	54.5	43.8
SO ₂	5.8	3.9	3.3	6.1	2.5	2.0

Please note that pollutant emissions shown in this table represent only approximately 90% of the total actual emissions from the combined Salem and Hope Creek Nuclear sites, as discussed with George Bacuta from NRC during the March 8 to March 12, 2010 site audit. Specifically these numbers include emissions from only large emergency generators, boilers, Salem Unit 3, and the Hope Creek cooling tower.

Estimated CO₂ Emission Rates 2004 to 2009
PSEG Nuclear, LLC

Company		2004	2005	2006	2007	2008	2009
PSEG Nuclear (including Salem Unit No. 3)	CO ₂ Emissions (tons)	18,179	12,449	10,386	19,132	7,972	6,487
	Net Megawatt-hours	22,224,400	26,017,150	27,924,130	26,932,737	27,531,112	20,795,038
	CO ₂ /MW-hr (tons/MW-hr)	0.00082	0.00048	0.00037	0.00071	0.00029	0.00031

Please note that these CO₂ emissions per MW-hr are estimated and should not be used for any official reporting.

