May 11, 2006
Contact – Partha Ganguli

Workgroup Recommendations and Other Potential Control Measures
Stationary Combustion Sources Workgroup

SCS004B – Flares in a Petroleum Refinery

Control Measure Summary	Emissions (tons/year) in NJ State	
2002 existing measure: NSPS Subpart J	**VOC** in 2002	515
	SO2 in 2002	332
	NOx in 2002	135
Candidate Measure 1: Flare Gas Recovery System **Emission Reductions:** VOC and HAPs as well as NOx & SOx. Percent emission reductions depend upon percent of flare gas recovered. **Control Cost:** Capital cost of FGR system is $1.0 to $5.0 million. Operation & Maintenance Cost: $100,000 to $400, 000 per year. **Timing of Implementation:** By the end of 2009 **Implementation Area:** OTC	**VOC** 2002 Base: Reduction: 2009 Remaining:	515 - 186 329
	NOx 2002 Base: Reduction: 2009 Remaining:	135 - 48 87
	SO2 2002 Base: Reduction: 2009 Remaining:	332 -105 227

Policy Recommendation of State/Workgroup Lead: Flare Gas Recovery (FGR) system is recommended to achieve reduction in VOC emissions and HAP emissions, as well as NOx & SOx emissions.

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Brief Rationale for Recommended Strategy: Beside major reduction in emissions, the FGR system allows cost savings because the recovered gases can be used as fuel or process feedstock. Cost savings due to recovery can be $300,000 per year to $1,000,000 per year; consequently, the annual cost can be low and the capital cost can be recovered in 3 to 7 years depending upon the facility and FGR system. The State of California has developed a specific rule for FGR system.