

Workgroup Recommendations and Other Potential Control Measures
Stationary Combustion Sources Workgroup

SCS004D – Equipment Leaks at Petroleum Refinery

Control Measure Summary	Emissions (tons/year) in NJ State*	
2002 existing measure: Current Leak Detection and Repair (LDAR) program, N.J.A.C 7:27-16.18	VOC in 2002	401
Candidate Measure 1: Enhanced LDAR for VOC control. Emission Reductions: 50% of VOC. Control Cost*: \$1300 per ton of VOC removed Timing of Implementation: Year 2009. Implementation Area: New Jersey	VOC 2002 Base: Reduction: 2009 Remaining:	401 -170 231

Policy Recommendation of State/Workgroup Lead: Enhanced LDAR is recommended for VOC control.

Brief Rationale for Recommended Strategy: Revisions to the NSPS were proposed by EPA. These amendments increase the stringency of the leak definitions for pumps and valves. These amendments would increase the stringency of the leak definition for pumps in liquid service from 10,000 ppm to 2,000 ppm and increase the stringency of the leak definition for valves in gas/vapor service or light liquid service from 10,000 ppm to 500 ppm. But New Jersey expects to propose a more stringent leak definition of 200 ppm for all valves consistent with MARAMA model rule. EPA’s analysis indicates that lowering the leak detection definitions would have a cost effectiveness of \$310 mg removed.

* - Data based on the Draft Technical Support Document for “Assessment of Control Technology Options for Petroleum Refineries in the Mid-Atlantic Region” by Mid-Atlantic Regional Air Management Association (MARAMA). NJDEP is working with other MARAMA States to further develop the regulatory strategy for this source category for the region. Further details on the MARAMA efforts can be found at www.marama.org.