NJ Clean Construction Program

Industrial Stakeholder Meeting
June 2, 2017
Diesel particulate matter consists of very small particles (less than 2.5 micrometers - much smaller than the width of a human hair).

- The USEPA classifies diesel particulate matter as a probable human carcinogen.

- Diesel exhaust contributes the highest cancer risk of all air toxics in the State of New Jersey.

- Diesel particulate matter can cause or aggravate a number of health problems and has been linked with illnesses and deaths from heart and lung disease.

- PM2.5 costs more than $100,000 per ton in health costs (not including premature death).
DIESEL PARTICULATE FILTERS (DPF)

Exhaust In (Soot, CO, HC)

Trapped Soot

Exhaust (CO₂, H₂O) Out
DPF SPECIFICS

• DPF capabilities
  – PM - 85 to 90% reduction
  – CO & HC - 70-90% reduction

• Retrofit Technology Check List
  – Generally, MY1994 and newer
  – Properly sized control systems ensure low back pressure and maximum performance
  – Vehicle Integration
    • Space, accessibility and exhaust temperature are important vehicle integration issues
    • Devices are often installed in-line or as a muffler replacement
NJDEP has ~ $8 million available for construction retrofits and replacements through 2020. Funding is tied to geographic regions.

- $4.6 million for construction retrofits
  - DEP pays for 100% cost of the retrofit and labor
  - Maintenance costs are the equipment owners responsibility
- $3.5 million for construction replacements
  - DEP pays for 25-30% of a new piece of equipment up to $100,000
  - New equipment must be the same type with equivalent HP
  - Newest Tier equipment available
  - Old piece of equipment must be scrapped

Federal money available through various grant processes
Interested in retrofits?

Step 1
• Visit www.stopthesoot.org/eoi.htm
• Complete the Inventory and Reporting Spreadsheet (make sure to fill out BOTH the project narrative and equipment description tabs) electronically
• Submit this information to NJDEP Amy.Hillman@dep.nj.gov
• DEP will evaluate and advise the equipment owner of the outcome.

Step 2
• Equipment owner selects an Authorized Installer (list in on the website) and submits the Inventory and Reporting Spreadsheet to them.

Step 3
• The authorized installer will evaluate the equipment and get approval from DEP.

Step 4
• Equipment owner will work with the authorized installer to perform technical evaluation. If all test results are acceptable the retrofit device will be ordered and installation will be scheduled.
## Authorized Non-Road Retrofit Installers for the New Jersey Clean Construction Program

**(State Contract # T-3039)**

**Effective May 2016**

<table>
<thead>
<tr>
<th>Retrofit Devices On Contract</th>
<th>Mobile Installation</th>
<th>Contact Person</th>
<th>Contact Information</th>
<th>Satellite Locations</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cummins Power Systems, LLC</strong> 155 Rittenhouse Circle Bristol, PA 19007</td>
<td>ESW Phoenix  ESW Skyline  ESW ThermaCat</td>
<td>Yes</td>
<td>Mark K. Creasy  Phone: 570-784-1772  Fax: 570-505-3051  E-mail: <a href="mailto:Mark.K.Creasy@cummins.com">Mark.K.Creasy@cummins.com</a></td>
<td>41-85 Doremus Ave, Newark, NJ 2727 Ford Road, Bristol, PA</td>
</tr>
<tr>
<td><strong>Foley Incorporated</strong> 855 Centennial Avenue PO Box 1555 Piscataway, NJ 08855</td>
<td>DCL Mine-X Sootfilter  ESW Phoenix  ESW Skyline  ESW ThermaCat</td>
<td>Yes</td>
<td>Paul Kirchberger  Phone: 732-261-8406  Fax: 732-885-3159  E-mail: <a href="mailto:PKirberger@foleyinc.com">PKirberger@foleyinc.com</a></td>
<td>978 Rt. 33 East, Monroe Twp, NJ 833 Centennial Avenue, Piscataway, NJ</td>
</tr>
<tr>
<td><strong>Johnson and Towers</strong> 2021 Briggs Road Mount Laurel, NJ 08054</td>
<td>DCL Mine-X Sootfilter  ESW Phoenix  ESW Skyline  ESW ThermaCat  Huss MK-System</td>
<td>Yes</td>
<td>Walt Johnson IV  Phone: 856-234-6990  Fax: 856-222-2402  E-mail: <a href="mailto:WJohnsonIV@johnsontowers.com">WJohnsonIV@johnsontowers.com</a>  Paul Prior  Phone: 609-272-1415  E-mail: <a href="mailto:PPrior@johnsontowers.com">PPrior@johnsontowers.com</a></td>
<td>2701 Fire Road, Egg Harbor, NJ</td>
</tr>
<tr>
<td><strong>Stewart &amp; Stevenson Power Products LLC</strong> 180 Route 17 South Lodi, NJ 07644</td>
<td>DCL Mine-X Sootfilter  ESW Phoenix  ESW Skyline  ESW ThermaCat  Huss MK-System</td>
<td>Yes</td>
<td>Rich Weber  Phone: 201-923-8733  Fax: 732-424-2727  E-mail: <a href="mailto:R.WeberJr@ssss.com">R.WeberJr@ssss.com</a></td>
<td>169 Old New Brunswick Road, Piscataway, NJ</td>
</tr>
<tr>
<td><strong>Ward Clean Air Products</strong> 1580 Lake Street Elmira, NY 14901</td>
<td>CDTi Purifilter OR  DCL Mine-X Sootfilter  Huss MK-System  All installations are mobile on site</td>
<td>Brandon Carlisle  Phone: 800-845-4665  Fax: 607-739-7092  E-mail: <a href="mailto:Brandon.Carlisle@warddiesel.com">Brandon.Carlisle@warddiesel.com</a></td>
<td></td>
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</tr>
</tbody>
</table>
Interested in replacements?

Step 1
- Visit www.stopthesoot.org/eoi.htm
- Complete the Inventory and Reporting Spreadsheet (make sure to fill out BOTH the project narrative and equipment description tabs) electronically
- Submit this information to NJDEP Amy.Hillman@dep.nj.gov
- DEP will evaluate and advise the equipment owner of the outcome.

Step 2
- Equipment owner must obtain a minimum of 3 quotes from different vendors of their choice for new, Tier 4 replacement equipment. These replacement pieces must be of the same type and size as the equipment being replaced, at approximately the same horsepower.

Step 3
- The equipment owner, in conjunction with DEP, will select one of the quotes that meet the criteria. The equipment owner and DEP will complete a State Contract to allow the purchase. DEP will issue a letter to the equipment owner identifying the approved quote.

Step 4
- Once the equipment has been purchased, the equipment owner, must submit to DEP:
  - The original quote
  - Quote approval letter
  - Supplier invoice
  - Proof of payment
  - Proof that the piece of equipment being replaced has been rendered unusable (holes drilled into the engine block, etc.)
    - Photos
    - Post Installation Verification Form – Replacements
Questions?

Contacts

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