School Bus Regulation and District Grants

Board of Directors
Santa Barbara County
Air Pollution Control District

Jim Fredrickson
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School Bus Regulation

• CARB identified Particulate Matter from diesel exhaust as a Toxic Air Contaminant (1998)
• CARB Diesel Risk Reduction Plan (2000)
• CARB Truck & Bus Regulation (2008)
  – Uncontrolled school buses - Diesel Particulate Filter (DPF) retrofit required by 2014
  – School buses unable to be retrofitted - required to be removed from school district fleet by 2018
County Status-Retrofits & Replacements

- Retrofitted 61 and replaced 25 older buses since 2001
- 13 retrofits in grant/installation process
- Retrofit grants funds available: $260,000
- 18 buses incapable of being retrofitted
- District funds for potential bus replacements are very limited
District Grants for Retrofits

- Definition of a DPF retrofit
- CARB allows up to $20,000/retrofit grant
- Retrofit grant contracts issued after verifying complete application, including a vendor quote
- Document of school district payment to vendor
- CHP and APCD inspections after install
# DPF Technical Points

<table>
<thead>
<tr>
<th></th>
<th>Passive System</th>
<th>Active System</th>
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</thead>
<tbody>
<tr>
<td><strong>Design</strong></td>
<td>Simple</td>
<td>Complex</td>
</tr>
<tr>
<td><strong>Application</strong></td>
<td>Long-haul Truck</td>
<td>School bus; Trash hauler</td>
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<tr>
<td><strong>Operation</strong></td>
<td>Continuous cleaning</td>
<td>Vehicle turned off</td>
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<tr>
<td><strong>Exhaust</strong></td>
<td>&gt;500°F</td>
<td>&gt;1,000°F</td>
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<tr>
<td><strong>Temperature</strong></td>
<td></td>
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<tr>
<td><strong>System Cost</strong></td>
<td>$7,000-$10,000</td>
<td>$14,000-$20,000</td>
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District Retrofit Grant Cost Summary

- APCD internal review determined that grant funds are being appropriately spent
- $18,600 average school bus vendor quotes for active systems (parts, tax, shipping, labor)
- For school buses, a "not to exceed" grant cap of $20,000 is reasonable – calculated by CARB
Thank You