**Project Title:** C-06-30: Demonstration of Diesel Fired Coolant Heaters in School Bus Applications

**PIN:** R020.81.881  
**Responsible Unit:** Office of Safety & Security Services  
**Project Manager:** Smith, Mike

**Project Goal:**
To demonstrate the application of diesel fuel-fired heaters in NYS school buses to reduce idling for engine preheating, to minimize idling while waiting for passengers and to provide supplemental heat while driving in the winter. Although widely used in Europe and in some areas of the United States, diesel fuel-fired heaters have not been adopted in New York State due to concerns of NYSDOT inspectors with emissions potentially infiltrating into the school bus cabins.

**Actions Proposed:**
The proper-sized diesel-fired coolant heater will be researched and selected. One unit will be installed on a school bus which services the Schenectady School District. This prototype installation will be conducted in close cooperation with NYDOT inspectors to ensure compliance with existing regulations and safety approval requirements. Once all requirements are satisfied, thirty-five additional installations will be completed on the same school fleet and data will be collected over two winters (2006 – 2008).

**Anticipated Work Products and Accomplishments:**
- Mounting Design and Lay-Out  
- Purchase and Installation of Commercial Heaters  
- Data Collection and Analysis  
- Outreach and Technology Transfer  
- Monthly Progress Reports  
- Final Report

**Proposed Budget:** $199,016