

# PRODUCT AWARENESS BULLETIN

## FROM ROSENBAUER

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THIS BULLETIN INCLUDES INFORMATION ABOUT A NEW OR EXISTING OPTION OR FEATURE THAT IS AVAILABLE FOR PRODUCTION.

DESCRIPTION: Green Star Idle Reduction Technology (IRT)

PLANT: Rosenbauer

SPECIFICATION: A Green Star idle reduction technology system shall be supplied with the apparatus that will significantly reduce the amount of diesel exhaust soot, NO<sub>x</sub> and CO<sub>2</sub> emissions into the atmosphere. Diesel engines contain pollutants that negatively impact human health and the environment. Diesel engines emit large amounts of nitrogen oxides, particulate matter and air toxics, which contribute to serious public health problems. Idle reduction technology has been verified by the U.S. EPA to reduce diesel emissions from diesel powered vehicles and engines.

The Green Star IRT will reduce idle time through the use of an auxiliary power unit (APU) in conjunction with automatic diesel engine controls that will shut down the main chassis diesel engine during operations not requiring the use of the pump assembly. This system will be automated and will not require intervention from the vehicle operator. There will be a time delay engine shut down feature that will automatically shut down the chassis main diesel engine and engage the diesel driven APU. This feature will be available when the chassis air brake is set and when the pump assembly is not engaged.

All features below are available with the main chassis diesel engine off.

The chassis voltage system is protected against extreme drain of the battery bank. If the vehicles voltage drops to 12 VDC, the automatic engine controls will start the chassis diesel engine to provide a charge.

Reducing the amount of idle time for the chassis diesel engine will substantially reduce the fuel consumption. The APU gen-set will take over the load demand for the heating-cooling of the vehicle cabin and, in addition, will handle ALL lighting and electrically driven motors.

