

Rypos, Inc. to Cut Construction Vehicle Pollution at Massive Croton Water Filtration Project in The Bronx, NY

New York, NY --- Rypos Inc. has been selected to install its newly developed active diesel particulate filters on heavy-duty construction vehicles operating at the \$1 billion Croton Water Treatment Plant in The Bronx, NY. Rypos' advanced technology enables the filters to automatically clean themselves or *regenerate* irrespective of engine temperatures.

"Rypos Active Diesel Particulate Filters (Rypos ADPF/C™) will be installed this month on three Terex TR-70 earthmoving trucks," according to Glenn P. Goldstein of Emisstar LLC, whose mobile emissions consulting firm is charged with reducing air pollution at the 12-acre public works project. The trucks have a 72-ton payload and are powered by 700 horsepower, V-12 diesel engines.

The advanced filter technology removes up to 90 percent of the soot and gases emanating from diesel engines and automatically clean themselves or *regenerate* without needing high exhaust gas temperatures or human intervention. This makes them ideal for construction vehicles that run at intermittent duty cycles or in remote environments and fail to sustain temperatures that are hot enough to passively burn off accumulated soot from their exhaust filters. The Rypos filters eliminate routine filter servicing and maintenance costs as well.

Says Goldstein, "Rypos was selected for the Croton project based upon its ability to achieve or exceed 'Best Available Technology' in low exhaust temperature applications, experience with high horsepower engines, intelligent design and capacity to regenerate self-sufficiently." Emisstar's principals have implemented some of the most advanced mobile emissions-reduction initiatives in New York and throughout the Northeast, including the 7 World Trade Center Project, New York Harbor Private Ferries Emission Reduction Project, and NY Department of Sanitation and Waste Management projects.

Unlike filters that depend on engine heat to regenerate, Rypos filters automatically regenerate using electrical current. The Rypos ADPF/C™, combines banks of sintered metal filter elements that resemble compressed steel wool and are conductive with a diesel oxidation catalyst. When the filters need regeneration, pressure sensors signal the microprocessor-controlled system to automatically send current through the metal fibers to heat them and burn off accumulated particles – much like a self-cleaning oven. The trucks' 24-Volt battery bank provides power.

The Rypos ADPF/C™ reduces particulate matter by up to 90 percent, while cutting carbon monoxide and hydrocarbon emissions as well and is designed for newer engines using low sulfur diesel fuel.

Another product, the Rypos ADPF™ is designed for older diesel engines that operate on high-sulfur fuel. This product achieves a total particulate matter reduction exceeding 60 percent and is suited for areas where low sulfur fuel is unavailable. This technology has received California Air Resources Board (CARB) Verification for stationary diesel engines powering standby generators. During tests, the Rypos filter well exceeded CARB's Level-2 emission standard of 50-percent soot reduction.

Headquartered in Holliston, MA, Rypos (www.rypos.com) developed these two active diesel emission filter product lines to serve the retrofit and OEM markets and engines ranging from 100 kW to 2 MW.

In addition to heavy-duty construction vehicles, Rypos' US and international markets include marine applications, railroads, mining and primary and standby power generation. "Demand for clean diesel power is fueled by US-EPA and California state regulations, voluntary incentives to make existing and

new diesel engines run cleaner and global industrialization,* says Klaus Peter, Rypos president and CEO.

The Croton Water Treatment Plant will treat 290-million-gallons-per-day from the Croton Reservoir. The Croton System normally provides 10 percent of New York's water and up to 30 percent during droughts. The facility will be built beneath the Van Cortlandt Park over seven years. Two water tunnels will connect to the plant.

Emisstar LLC, with offices in New York, Texas, and New Hampshire, is a consulting practice focused on the scientific, technology, policy, business and public health challenges surrounding mobile air emissions. Our in-depth knowledge of local, regional and national clean air markets, strong track record of working with government and industry, and exceptional technical expertise are the assets we provide to our clients. Services include: strategic market analysis, technical guidance; fleet inventory, analysis, and cost-effective emissions reduction assessment; technology deployment and project implementation; and policy guidance. Emisstar also works to accelerate the emergence of advanced vehicle technologies in the marketplace and assists clients in effectively navigating regulatory labyrinths.

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RYPOS, Inc. (www.rypos.com), based in Holliston, MA, is a developer, manufacturer and marketer of advanced, self-regenerating filters for diesel engines. Products include the Rypos ADPF™ (meets CARB Level-2 emission standards) and *Rypos ADPF/C*™. Rypos serves the retrofit and OEM markets. Applications include off-road vehicles, standby and primary power generators, mining and heavy-duty construction equipment, locomotives and both commercial and Navy vessels.

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