TURNING POINT

November 1997

Trumbull, Connecticut, Improves Performance of Sewage Pumping System and Saves Money

Town of Trumbull receives award for Showcase Demonstration project. (Left to right): Denise Swink, DOE; from Town of Trumbull—Paul Kallmeyer, First Selectman David Wilson, Joe Solemene.

The Town of Trumbull, Connecticut, is showing how a different pump selection and pump operation strategy can drastically reduce the operational costs of a sewage lift station. Just by adding a smaller pump and modifying the system control scheme at its Reservoir Avenue pump station, the town reduced the annual electricity consumption by almost 44% and is realizing annual energy cost savings of over $2,600.

The medium-sized Reservoir Avenue station, selected as the Motor Challenge Showcase Demonstration site, handles about 0.34 million gallons of raw sewage per day, consuming more than 72,000 kWh of electrical energy annually at a cost of $5,400 to the town. One of the town's 10 sewage lift stations, it was designed in 1971 with two 40-hp, dry-pit, vertical-frame-mounted, sewage handling pumps. The pumps were originally sized so that one pump could handle the peak inflow to the station under normal conditions, which is usually less than 800 GPM. Two pumps would run at the same time only during extreme flood conditions from periods of heavy rain. Each pump rarely operated for more than 5 minutes at a time.

The pump control system used a wound rotor and variable resistance circuit technology to achieve speed variation of the pumps. A bubbler-type level control system *(continued on page 2)*

Five Sponsors Signed on for 1998 Motor Challenge Teleconference

Advanced Energy (formerly Industrial Electrotechnology Laboratory), the Electrical Apparatus Service Association, the Electric Power Research Institute, the U.S. DOE's Federal Energy Management Program, and the Rebuild America Program have signed on as official sponsors of the Motor Challenge National Teleconference Efficient Motor Systems: Strategies for Success II. Motor Challenge is now seeking Motor Challenge Partners and Allied Partners to be Contributing Teleconference Sponsors, which will offer name exposure to over 4,000 viewers.

Motor Challenge began recruitment of Contributing Teleconference sponsors in October. For more information about sponsoring the teleconference or participating as a host site, contact Julia Oliver, Motor Challenge, at (510) 637-1952 or e-mail: julia.oliver@oak.doe.gov.

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