



Tech notes

August 2005



Pre-engineered Package Lift Stations for Wastewater and Stormwater

Product Information & Updates • Installation & Technical Tips

THIS EDITION OF

TECH NOTES looks at the Cummins standby generators offered as a component of Romtec Utilities' pre-engineered submersible lift stations. Cummins Power Generation has recently honored Romtec Utilities as a strategic partner with the designation of Cummins National Distributor. Visitors to WEFTEC 2005 can examine a Cummins QuietSite II standby generator at the Romtec Utilities booth, #8944. Also on display will be a Romtec full-size pre-cast wet well base equipped with Flygt submersible pumps, as well as Romtec control panels. This year's WEFTEC event is set for Oct. 29-Nov. 2 at the Washington Convention Center in Washington, D.C. For more information, visit www.weftec.com.

Cummins standby generators

When the lights go out, your lift station shouldn't go out as well. Given the critical mission of wastewater and stormwater lift stations, reliable backup power is a necessity.

Romtec Utilities supplies Cummins standby generators in several configurations as an optional component of its pre-engineered submersible lift stations. Whatever the genset configuration – exterior permanent, interior permanent or portable -- the generators include all necessary equipment to ensure the lift station will operate flawlessly in the event of a power shortage.

All gensets are offered with 20 kW to 60 kW power to fully operate lift stations of all sizes. Connections include 240V single-phase, 240V 3-phase or 480V 3-phase. Choices of fuels are diesel, propane and natural gas, and all gensets include a fuel tank for 24-hour operation.

The **Cummins Exterior Permanent Generator** offers the choice of a standard

weather protective enclosure or the optional Quiet Site II sound attenuation package. The Quiet Site option is popular for lift stations sited in residential areas.

The Cummins Interior Permanent Generator

includes the air intake, exhaust and HVAC in the building, which usually also houses the control panels. Romtec Utilities also offers quotes on its concrete control buildings, when desired, in inside permanent generator applications.



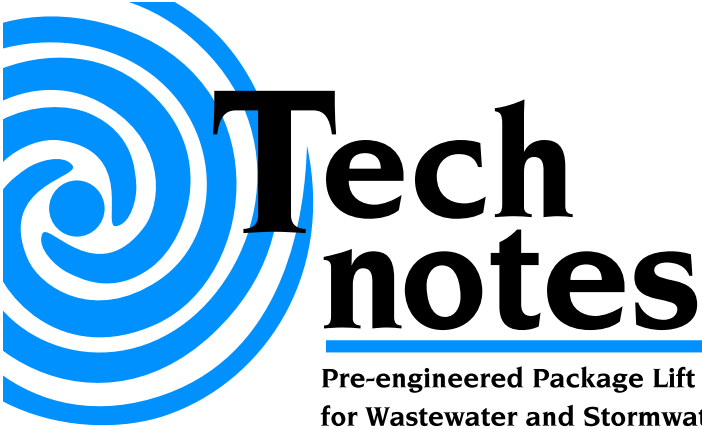
Workers from George Schmid & Sons inspect the Cummins generator housed in a QuietSite II sound-attenuation enclosure at the lift station site for the Cassini View subdivision in Ridgefield Wash.



The Cummins Portable Generator is trailer-mounted with a 24-hour fuel tank.



18240 North Bank Rd., Roseburg, OR 97470
541.496.3541 • info@romtecutilities.com •
www.romtecutilities.com



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Anderson Pacific electrician Rick Melena, left, and Cummins technician Richard Zwaal test connection of the generator power cable to the control panel receptacle at the Line M stormwater lift station in Union City, Calif.

Both permanent on-site gensets include connection to an auto transfer switch. Operators can program the transfer switch to their own specifications. If the lift station loses power, the auto transfer switch will monitor the power loss, and after a set amount of time, direct the start-up of the generator. Once the generator is up to speed, the lift station is switched over to auxiliary

power. The transfer switch will continue to monitor the power. Once it comes back on for a set amount of time, it will switch over to regular power and the generator will idle down, go through its cool down phase and shut off automatically.

The **Cummins Portable Generator**, a cost-effective solution for a multi-lift station application, is trailer-

mounted for ease of transport. The portable genset comes standard with a weather-protective enclosure and a manual transfer switch.

Many times, the portable

generator will be parked at the most “mission-critical” lift station location. Connection to auxiliary power is accomplished either through a manual transfer switch or often with an automatic transfer switch that is wired in with a receptacle instead of hardwired. If needed elsewhere, station operators would unhook the wire from the receptacle, coil up the cord, unhook the trailer and move it – using a manual switch at the other site. The Quiet Site II sound attenuation package is also available for portable generators.

All of the Cummins generators are set up so status checks and maintenance can be done automatically on a programmed schedule. A generator can be programmed to start up every Wednesday at 10 a.m., for example, go through the warm-up process, do system checks, then idle down, complete the cool-down phase and shut off automatically.

Standard features of all Cummins standby generators supplied by Romtec Utilities include: required electrical equipment, circuit breakers

and safety features; all necessary gauges for voltage, frequency, amperage, engine temperature and lube oil pressure; detailed specifications and drawings; detailed O&M manual; and intake and exhaust louvers as required for interior generators. Cummins Power Generation engines meet strict emissions regulations based on current EPA Non-Highway standards.

FOR MORE INFORMATION:

The complete pre-engineered package submersible lift stations available from Romtec Utilities feature components from the industry's leading manufacturers, including Cummins Power Generation, ITT Flygt and MultiTrode, Inc. Integrated systems include 6' and 8' diameter pre-cast concrete wet wells to 30' deep, with Flygt duplex or triplex submersible pumps, UL listed pump controls, pre-assembled valve vaults and Cummins standby generators. For more information, call Romtec Utilities at 541-496-3541 or visit our website at [visit our website www.romtecutilities.com](http://www.romtecutilities.com).



The Cummins interior standby generator includes an automatic transfer switch.