



Attachment A

To the 2009-10 Sanitary Sewer Lift Station Backup Generator Maintenance SPECIFICATIONS

Materials

All supplies and materials used on this project shall be new, factory certified per the appropriate Generator manufacturer or approved equal.

Time for Performance

Quarterly preventative maintenance shall be scheduled for the months of February, May and November. Annual maintenance shall be scheduled for August. Detailed maintenance reports shall be left at the Wastewater Treatment Plant following each service. This quote shall be for service performed during the calendar years 2009 and 2010.

Locations

Following are Generator locations:

1. Location-Sedro-Woolley Wastewater Treatment Plant, 401 Alexander Street, Sedro-Woolley, WA; Cat Generator, 400 KW, Cat Engine, Model 3406, Fuel-Diesel.
2. Location-Hodgin Pump Station, 1050 Hodgin Street, Sedro-Woolley, WA; Kohler Generator, 25 KW, John Deere Engine, Model 20R0ZJB, Fuel-Diesel.
3. Location-State Street Pump Station, 600 W. State Street, Sedro-Woolley, WA; Kohler Generator, 55 KW, John Deere Engine, Model 50R0ZJ71, Fuel-Diesel.
4. Location-Cook Road Pump Station, 1105 Cook Road, Sedro-Woolley, WA; Kohler Generator, 25 KW, John Deere Engine, Model 20R0ZJ71, Fuel-Diesel.
5. Location-Klinger Street Pump Station, 370 Klinger Street, Sedro-Woolley, WA; Kohler Generator, 20 KW, Ford Engine, Model 20RZ, Fuel-Natural Gas.
6. Location-W. Jones Road Pump Station, 751 West Jones Road, Sedro-Woolley, WA; Cummins Generator, 60 KW, Cummins Engine, Model DGCB, Fuel-Diesel.
7. Location-John Liner Pump Station, 700 John Liner Road, Sedro-Woolley, WA; Kohler Generator, 45 KW, Detroit Engine, Model #45RZG, Fuel-Natural Gas.

8. Location-Holtcamp Pump Station, 1550 SR 20, Sedro-Woolley Cummins Generator, 35 KW, Cummins Engine, Model OTPCA125, Fuel-Diesel.
9. Location-Hospital Pump Station, 1970 Hospital Drive, Sedro-Woolley, WA; Cummins Generator, 35 KW, Cummins Engine, Model OTPCA125, Fuel-Diesel.

Annual preventative maintenance shall include:

- Lube oil and filters change; parts included
- Replace fuel filter (diesel engines), parts included
- Oil samples, lab testing fee is included
- Coolant sample test for proper inhibiting level, combustion leaks, etc.
- Fuel sample, lab testing fee is included. Cetane Test only
- All spark plugs to be inspected, cleaned or replaced, if required (non-diesel engines), parts not included
- Ignition system including points, condenser, cap rotor, coil, and wiring. (Inspection only, parts not included)
- Load bank test (2) hours
- Provide a detailed summary of maintenance performed including date of service, name and signature of technician, service performed, test results and comments regarding problems noted or additional service required.

Quarterly preventative maintenance shall include:

- Verify fuel supply
- Service or replace air filter, parts not included
- Visual check for oil, water or fuel leaks
- Inspect hoses
- Test antifreeze and adjust level, parts not included
- Pressure test cooling system, tighten hose connections as required
- Inspect and tighten belts
- Check engine heater operation
- Check for oil moisture, dirt; clean as necessary
- Check battery charger operation and charge rate
- Load test batteries, check specific gravity, and clean connections
- Check emergency system operation without load
- Check frequency and governor operation; adjust as necessary
- Check engine alternator and charge rate
- Check gauges and meters for proper operation and reading levels
- Check generator set auto shutdown system and alarms
- Check automatic transfer switch and accessory operation
- Emergency system operation with load transfer during normal business hours (With owner's permission only)
- Check generator output voltage and adjust as necessary
- Inspect for rodent infestation
- Provide a detailed summary of maintenance performed including date of service, name and signature of technician, service performed, test results and comments regarding problems noted or additional service required.