

CITY OF GALENA, ILLINOIS

101 Green Street, PO Box 310, Galena, Illinois 61036



MEMORANDUM

TO: Honorable Mayor Renner and City Council

FROM: Andy Lewis, City Engineer *ALewis*

DATE: 7 June 2017

RE: Back-up Generators for Water, Sewer and Flood Control Facilities
Approval of 5-Year Servicing Contract

Two years ago the city council approved a servicing program for all of our back-up generators at well site #7, sanitary sewer and flood control facilities (see attached summary). At the time, we also considered a 5-year program to enable likely cost savings. Recently I sent out request for quotes and also posted the information on the city website. Two responses were received which are detailed below and summarized in the attached tabulation.

Five-Year Maintenance Program:

- Electrical and Engineering Company: \$44,910.00
- Cummins Sales and Service: \$57,011.52

The quote from Electrical Engineering and Equipment Company (3E) is the more competitive of the two at \$44,910 with a first year maintenance cost of \$7,230. In addition to normal servicing, items for replacement during the five years include: engine coolant, thermostat, drive belts, coolant hoses, radiator caps, block heaters, air filters and batteries. Fuel polish and 2-hour resistive load testing will also be completed. There are sufficient funds in the Water, Sewer and Flood Control budgets to pay for the proposed first year servicing. Budget funds will be allocated for remaining years of the 5-year contract.

I recommend the city council approves a 5-year agreement with Electrical Engineering and Equipment Company for \$44,910 with a first year cost of \$7,230 to service all the back-up generators at our various facilities.

Maintenance of City Owned Generators

#	Location	Manufacturer & Size (kW)	Serial Number	Type	Model
1	Wastewater treatment plant 1989 East Cross Road	Cummins Npower 275DQAE/C 60hZ-275/250kW 50hZ-250/277kW Manual transfer switch	C050760987	Trailer mounted diesel 323 gal. tank	275DQAE/C
2	Well #7 11510 Technical Drive	Cummins Npower DFEG, 350 kW, 438 kVA Automatic transfer switch	D050777124	Stationary diesel 660 gal.	350DFEG
3	Influent pump station 114 Meeker Street	Caterpillar Olympian D125P1, 125 kW Automatic transfer switch	LNAT00390	Stationary diesel 120 gal.	D125P1
4	Midwest Medical Centre Norris Lane	Patten Cat Olympian D50-4, 50 kW, 120/208V Automatic transfer switch	C44CN4D00433	Stationary diesel 120 gal.	D50-4
5	Cobblestone Crossing	Patten Cat Olympian D50P3, 50 kW, 120/208V Automatic transfer switch	KNPF03711	Stationary diesel 120 gal.	D30P3
6	Pluym Sub-division	Patten Cat Olympian D50P3, 50 kW, 120/208V Automatic transfer switch	CNPF03713	Stationary diesel 120 gal.	D50P3
7	Storm water pump station 213 Water Street	Cummins GTA855e, GFBC, 250 kW Automatic transfer switch	M13H348146	Stationary natural gas	250GFBC

Generator Maintenance 5 Year Contract

	Electrical and Engineering Company (3E)					
	Year 1	Year 2	Year 3	Year 4	Year 5	
Location	Fuel Polish	Air Filter & Battery	Load Testing	Major Service	Coolant	TOTAL
Wastewater treatment plant	1215	1425	1265	765	2835	7505.00
Well #7	1990	1870	1815	1215	3700	10590.00
Influent pump station	875	885	1075	625	1730	5190.00
Midwest Medical Centre	800	835	950	550	1610	4745.00
Cobblestone Crossing	775	775	925	525	1595	4595.00
Pluym Sub-division	800	800	950	550	1635	4735.00
	1	2	3	4	5	
	Major Service	Air Filter & Battery	Load Testing	Major Service	Coolant	
Storm water pump station	775	1500	1275	775	3225	7550.00
TOTALS	7230	8090	8255	5005	16330	44910.00

Cummins Sales and Service						
Year 1	Year 2	Year 3	Year 4	Year 5		
Full Service	Full Service Plus	Full Service	Full Service	Full Service	Fuel Polish	TOTAL
869.95	4790.07	932.58	965.78	1000.31	1800	10358.69
869.95	4559.8	932.58	965.78	1001.31	2199.02	10528.44
651.59	3065.91	694.21	716.7	740.02	1800	7668.43
680.43	2909.82	722.69	744.91	767.89	1800	7625.74
470.8	2563.66	499.63	514.81	530.53	1800	6379.43
543.63	2678.99	577.55	595.42	613.92	1800	6809.51
804.15	4167.15	860.04	889.61	920.33	0	7641.28
4890.5	24735.4	5219.28	5393.01	5574.31	11199.02	57011.52

NOTES

On the Cummins quote full service plus includes replacement: air filter, battery and load testing, but not fuel polish