



Electrical Service Technical Memo Key Points

King County's engineering consultant for the Murray Combined Sewer Overflow Control Facility project has submitted its report on the facility's electrical service needs. The content of the report, called a technical memo, will guide King County's decision making about the equipment used to provide sufficient electricity for the normal operation of the one million gallon storage tank currently under design as well as the existing Murray Pump Station. Key points for the community to consider are listed below along with a citation for the specific section within the memo addressing the specific issue in greater detail.

Key Point	Section
A new standby generator will be installed to provide power to both the existing Murray Pump Station and the new CSO control facility.	1.0
No upgrade to the Seattle City Light transformer is currently anticipated. The transformer is expected to be able to accommodate the power load for both facilities.	2.2.1
The above ground electrical room will be connected to the existing transformer. The existing pump station feed will be disconnected.	2.2.1
A separate above ground building will house additional electrical equipment due to the site's high groundwater levels and the safety risks posed by water intrusion. The Murray Pump Station has ongoing issues with water intrusion.	2.3
A 1000 kilowatt standby generator will be provided. The generator will be able to start and run all loads at both facilities and still have 30 percent spare capacity.	3.1
The generator can be expected to consume 70 gallons of diesel fuel per hour at full load. King County requires facilities to have a 24-hour supply of fuel for its generators, which requires a 1,680 gallon tank on site. Due to the risk of water intrusion from the site's high water table and permitting concerns, the tank will be built above-ground.	3.4
Generators should be regularly exercised weekly for about 15 minutes along with a cool down period.	3.7
Generator room design will include sound reduction equipment to ensure noise at the site property line does not exceed 55 dBA, which would make it less noisy than typical conversational speech.	3.8
Generator engine exhaust must be vented to the outside, as close to the generator as possible. An air quality permit will be required.	3.9