

DCPS Generator and Emergency Power Design Guidelines

- The engineer shall coordinate with the project manager and electrical maintenance foreman to determine the correct generator size to accommodate all life safety requirements.
- Approved generator manufacturers shall include Kohler, Onan and Cummins Power Generation.
- Generators installed from the ICW to the beaches shall have stainless steel housings and mufflers. Otherwise the housing shall be painted aluminum with SS mufflers.
- Generator batteries shall be standard lead acid batteries, not “Packs”.
- Generators shall include a control panel with modem and software for communication to remote locations for diagnostics and monitoring.
- Provide (1) Cat 5 cable from the telephone board to the generator enclosure. Cat 5 cable shall be terminated in the control panel or in a RF-45 jack as required by the generator control panel.
- Specifications shall include requirements for the contractor to provide owners and maintenance manuals, diagnostic/monitoring software, communication cables, and 4 hours of training on generator at start-up.
- All transfer switches shall be of the same manufacturer.
- When replacing a generator, the transfer switch should be replaced as well.
- At the request of DCPS project manager, it will be required to include a laptop computer with the following specifications:
 - 2.0 GHZ Intel Core Duo Centrino Processor
 - 17” Display
 - 1GB DDR2 RAM
 - Dual Layer DVD +/- RW
 - Dell or Gateway
 - Generator diagnostic/monitoring software
- The fuel tank for the generator shall provide a minimum of 72 hours of run time at 50% load.
- The engineer shall include a requirement in the drawings that require the contractor to trace existing circuits that are not labeled in the panel schedules.
- Normal power feed for transfer switch shall be on the load side of the service main circuit breaker.
- Verify all life safety circuits are on emergency circuit.

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