

Note:  
This summary was last updated on  
**May 18, 2022**  
For current information, follow this link:  
[PSC Docket Case #9677](#)

**Case #9677 (Modification)**  
**Constellation Power Source Generation, LLC**  
**Perryman Generating Station**  
**900 Chelsea Rd., Aberdeen, MD**  
**(Harford County)**

**Transmission Grid Reliability Project**  
**PPRP Case Manager: Ginny Rogers**

Note:  
This summary is based on  
information provided in the CPCN  
Application dated **March 9, 2022**  
which is subject to change and has  
not yet been fully reviewed by PPRP

**CPCN Timeline**

**CPCN Application and Applicant Direct Testimony filed on March 9, 2022**

**Interveners' Direct Testimony: July 1, 2022**

**Public Hearing: July 12, 2022 @ 7:00 p.m.**

**PSC Evidentiary Hearing: July 18, 2022 @ 10:00 a.m.**

**Project Location:**

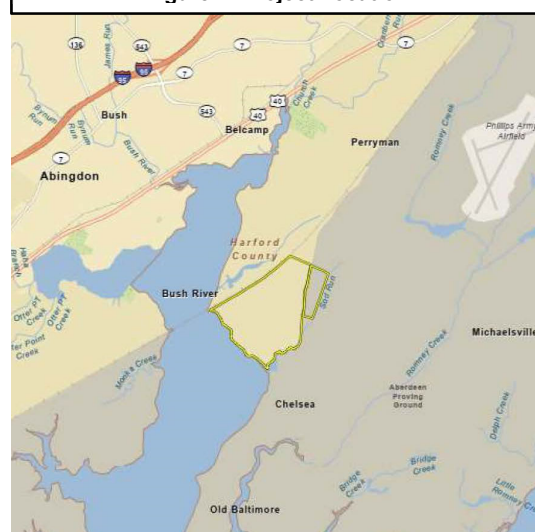
The Perryman Generating Station (Perryman) is located at 900 Chelsea Road in Aberdeen, MD. [Google Map Link](#). The facility includes six simple-cycle combustion turbines (CTs), three are oil-fired and three are natural gas-fired. All construction for the Project will occur within the existing footprint of the Perryman facility.

**Project Overview:**

During a grid blackout, most generating stations require an offsite power source to restart; therefore, the addition of onsite emergency generators capable of restarting the plant are needed to ensure timely grid recovery. Otherwise, generating stations must wait for adequate energy to be available on the grid before restarting. To improve overall grid reliability, the regional grid operator (PJM) has selected Perryman to install this capability.

Project components will include two 2,750 kW diesel engine generator sets (gensets) and associated equipment. The generators will not affect the nameplate capacity of the generating station.

**Figure 1: Project Location**



During an outage, one genset would be operated for approximately 20 minutes to restart one of the CT units, which will then be used to start the remaining CTs. The second genset will serve as a backup to the first one. The gensets may also be operated up to 1 hour per month for testing and maintenance.

**Site Description**

The Perryman facility occupies a 704-acre site that includes a 20 MW solar farm, natural gas pipeline, substation, and electrical transmission lines. The rest of the property consists of undeveloped farmland and wooded areas. The Application indicates that the Project will be situated entirely within the developed portion of the site (Figure 2).

The site is bounded by an Amtrak railroad line and Perryman Road to the northwest, agricultural fields and an XPO Logistics warehouse and Rite-Aid distribution center on the north, Aberdeen Proving Ground (APG) on the east, the Sod Run Wastewater Treatment Plant to the south, and the Bush River on the southwest.

**Impact Assessment Highlights**

### *Air Impacts*

- The Applicant's ERD states that minor air impacts will occur during construction of the Project. Sources include fugitive dust, truck traffic, operation of stationary engines, and worker travel to and from the site.
- The Applicant indicates that the Project will not exceed the Prevention of Significant Deterioration (PSD) significant emission rates listed in 40 CFR 52.21 and as such, the Project is considered a minor modification and is not subject to PSD New Source Review requirements.
- The Applicant states that the new gensets will meet New Source Performance Standards (NSPS) emission requirements and will burn only ultra-low sulfur diesel (ULSD) fuel oil.
- The Applicant indicates that the Project will comply with all applicable State emissions requirements (i.e. for nuisance, odors, visible emissions, and control of sulfur oxide and NO<sub>x</sub> emissions).
- The Applicant indicates that greenhouse gas emissions will be minimal due to infrequent operation of the gensets.
- The Perryman facility is located in an area that EPA has designated as attainment for regulated air pollutants, except for ozone. The Perryman Units 1, 3, and 4 participate in MDE's Voluntary Peak Ozone 3 Day Reduction Partnership which means that the site is asked to voluntarily curtail emissions on peak ozone days. The ERD states that the Applicant will make every effort to not perform maintenance or annual testing of the generators on Ozone Action Days.

### *Biological*

- The ERD states that construction and operation of the Project will not involve direct withdrawal or discharge of ground water or surface water.
- The Applicant states that the only potential impacts to water quality could be from changes in the quantity or quality of stormwater runoff. Existing stormwater management systems are expected to control these discharges; however these will be supported with additional construction-specific stormwater management systems if needed.
- The Applicant's ERD indicates that there are no wetlands in the Project area.
- The Applicant indicates that because the Project will be constructed and operated within the existing Perryman facility footprint, which does not contain suitable wildlife habitat, there are no anticipated impacts to rare, threatened or endangered species.
- Green Infrastructure and Forest Interior Dwelling Species (FIDS) habitat were identified adjacent to the Project site; the Applicant's ERD states that construction and operation of the Project will not affect these areas.
- The Applicant states that no hazardous wastes will be generated during Project construction or operation. The Applicant states that some construction debris will be generated and that this material will be handled at local solid waste management facilities.

### *Noise Impacts*

- The Applicant's ERD states that noise associated with construction will comply with the State daytime limits for construction (90 dBA) and that no construction activities are expected to occur between 10pm and 7am. The Applicant further states that a 75 dBA at 9 feet noise rating for the generator sound attenuated outdoor enclosure will be required as part of the specifics for bid.

### *Visual Impacts*

- The Applicant's ERD states that a visual impact study was performed as part of the licensing process for Perryman 51 and 6 Units. Due to the existing visual screening of the Project site and the nature of the current modification, a new visual impact study was not performed because no impacts are anticipated.

### *Transportation*

- The Applicant anticipates up to 28 truck deliveries over the 5 to 10 month construction period.
- During operation, the Applicant anticipates 2 to 12 oil truck deliveries per year.

### *Economic and Fiscal*

- The Applicant states that the Project will create temporary jobs during the construction period, but that operation of the Project will not require additional personnel and no significant impacts on public services are expected.

### *Cultural & Aesthetic*

- The Applicant's ERD states that because the Project will be constructed on previously developed land, no historical or archaeological impacts are expected.