## Bayshore Regional Sewerage Authority (BRSA) Contract 114-S Power Resiliency Generation Project June 2025 Construction Progress Update

The Bayshore Regional Sewerage Authority (BRSA) is currently construction a new Power Resiliency Generator System and associated Generation Building to maintain a continuous power supply to the BRSA and the Monmouth County Bayshore Outfall Authority (MCBOA) Pumping Station.

The new generator system was designed to supply power to BRSA and MCBOA in "Storm Anticipation Mode" which will enable both facilities to start up and operate approximately six (6) hours prior to a major storm event and continue plant operations during a resulting loss of utility power. The Power Resiliency Generator system will also supply power to BRSA and MCBOA when there is an extended loss of utility power from the Utility provider. The existing standby diesel generators at the BRSA and MCBOA facilities will remain as an emergency power supply in the event of power loss to portions of the facilities and short-term losses of power from the Utility provider.

The intent of this project is to provide essential services of BRSA and MCBOA with reliable power in anticipation of and during major storm events, as these services are a 24/7 operation that must be maintained.

The project includes the installation of three (3) 1,500 kW natural gas fired generators in an enclosed Generation Building located in the northeast corner of the BRSA's wastewater treatment plant. The building will be constructed using a portion of the existing wind turbine foundation and the building will be elevated above the 500-year flood elevation. The Building will stand at a total of 87 feet above grade with the finished first floor (generator location) elevation of 17 feet above grade and second floor (electrical switchgear location) of 44 feet above grade. All vents and louvers for the generators are oriented towards Raritan Bay to direct any noise and exhaust away from nearby residents. Power and conduit are provided from the building to the MCBOA facility using a Horizontal Directional Drill (HDD) to avoid disturbance to the wetlands, MCBOA retention pond and disruptions of operation of the facilities. Other MCBOA facility upgrades include dry floodproofing of the existing MCBOA pumping station and a new power distribution enclosure (PDE).

## **Major Construction Milestones**

- 7/2/24 Horizontal Directional Drill (HDD) of conduits from BRSA to MCBOA completed.
- 9/17/24 Generator Building pile caps poured by the Contractor
- 10/4/24 Generator Building grade level columns poured by the Contractor.
- 11/27/24 First elevated concrete slab (generator level) poured by the Contractor.

4/8/25 – Second elevated concrete slab (electrical level) poured by the Contractor.

6/5/25 – Third elevated concrete slab (attic level) poured by the Contractor.

June 2025 – Installation of CMU (concrete masonry) walls on the generator level of the building.

July 2025 – Expected installation of natural gas generators on the main floor of the Generator Building.

November 2025 – Expected Substantial Completion of the project.

May 2026 – Expected Final Completion of the project.

**Construction Progress Photos** 























