



# DRBC Fact Sheet

## Docket No. D-1969-210 CP-13

### Exelon Generation Company, LLC (Exelon Generation)

### Limerick Generating Station (LGS)

A docket has been issued by the Delaware River Basin Commission (DRBC or Commission) for Exelon Generation's LGS, located in Limerick, PA. The LGS is a nuclear power plant with two generating units each having a maximum Reactor Thermal Power of 3,515 megawatts, with circulating cooling water for the steam turbine condensers to be furnished from cooling towers. LGS is located on a 491-acre site adjoining the east bank of the Schuylkill River almost entirely in Limerick Township, Montgomery County, PA (with a small area extending into Lower Pottsgrove Township, Montgomery County), about 1.7 miles south of the Borough of Pottstown. The LGS property also includes 154 acres adjoining the west bank of the Schuylkill River in East Coventry Township, Chester County, but no plant features of LGS are situated in this area; it serves only as the western portion of the LGS exclusion area.

#### **A. Exelon Generation LGS Docket/Permit Approval Schedule**

- June 28, 2012 – Public notice of the draft docket, including the Operation and Monitoring (O&M) Plan, is published on the DRBC website and sent to the Interested Parties List (IPL); 120-day public comment period begins.
- August 28, 2012 – Joint Public Hearing on the DRBC draft docket & PADEP National Pollutant Discharge Elimination System (NPDES) permit No. PA0051926 held at the Sunny Brook Ballroom in Pottstown, PA.
- October 27, 2012 – 120-day comment period closed
- May 8, 2013 – Docket approved by the commissioners

#### **B. Administrative Highlights**

- Consolidates 12 previous dockets and multiple resolutions approved by the Commission regarding the LGS since March 29, 1973
- Provides the terms and conditions for Commission approval of:
  1. Water withdrawal from several water sources to support the consumptive and non-consumptive needs at the LGS;
  2. Non-contact cooling water and boiler blow down discharges from LGS; and
  3. LGS Water Supply Program O&M Plan

#### **C. Water Withdrawal**

- Approves a total monthly withdrawal of up to 1.7422 billion gallons per month (bgm), based on the same daily water withdrawal allocation in the prior dockets (42 million gallons per day[mgd] consumptive plus 14.2 mgd non-consumptive).
- Approves an increase in peak daily withdrawal from the Schuylkill River from 56.2 mgd to 58.2 mgd (44 mgd consumptive plus 14.2 mgd non-consumptive).

- Approves the withdrawal of water to support LGS consumptive and non-consumptive water needs from:
  1. Schuylkill River; and
  2. Perkiomen Creek
- Approves the use of the following supplemental sources of water when the LGS is restricted from withdrawing water from the natural flows in the Schuylkill River or the Perkiomen Creek:
  1. Delaware River (via the Bradshaw Reservoir);
  2. Tamaqua Area Water Authority (TAWA)'s Still Creek Reservoir and Tamaqua Borough's (TB's) Owl Creek Reservoirs (now referenced as the Tamaqua Reservoirs); and
  3. Wadesville Mine Pool (WMP)
- Eliminates the Schuylkill River ambient 59°F temperature requirement.
- Continues to restrict the un-augmented water withdrawals from the Schuylkill River consumptive use when flows in the Schuylkill River are at or below 560 cubic feet per second (cfs) while operating two units and 530 cfs when operating one unit.
- Continues to restrict the non-augmented withdrawals from the Perkiomen Creek to no more than 24 mgd when in-stream flows are at or above 180 cfs and no more than 42 mgd when flows are at or above 210 cfs.
- Approves the use of water released from:
  - Wadesville Mine Pool of up to 446.4 million gallons per month (mgm) [10,000 gallons per minute (gpm), 14.4 mgd, 22.4 cfs] to augment the Schuylkill River;
  - Still Creek Reservoir (up to 36 mgd) and Owl Creek Reservoirs (up to 8 mgd), not to exceed 43.3 mgd(1,342 mgm) to augment the Schuylkill River; and
  - Delaware River water via the Point Pleasant Pumping Station/Bradshaw Reservoir of up 46.2 mgd (42 mgd plus 4.2 mgd) to augment the Perkiomen Creek
- Approves ground water withdrawal allocations from existing on-site wells of up to 6.1 mgm for potable and non-potable uses at LGS.
- Continues the contributions from Exelon to the Schuylkill River Restoration Fund (SRRF).
- Maintains the requirement to provide “Compensation Releases,” in lieu of curtailment, of the LGS units when made for all “Designated Units” listed in Table A of the Merrill Creek Owners Group docket whenever the Commission’s Drought Management Plan (present or future) causes the flow objective at the Trenton gage on the Delaware River to drop below 3,000 cfs and/or the “Equivalent Flow” at Trenton drops below 3,000 cfs; however, such releases from the Merrill Creek Reservoir are not required for any portion released for LGS from the WMP and/or Tamaqua Reservoirs.
- Continues the Executive Director’s authority to approve increases in flow to the East Branch Perkiomen Creek above the 10 cfs minimum flow required to support short term recreational events.
- Continues the Executive Director’s authority to direct the docket holder to resume makeup water operations via the Delaware River diversion if conditions warrant.

**D. Discharge**

- Approves the discharge of up to 14.2 mgd of non-contact cooling water and boiler blow down from LGS Outfall No. 001 to the Schuylkill River.

**E. Monitoring/Reporting**

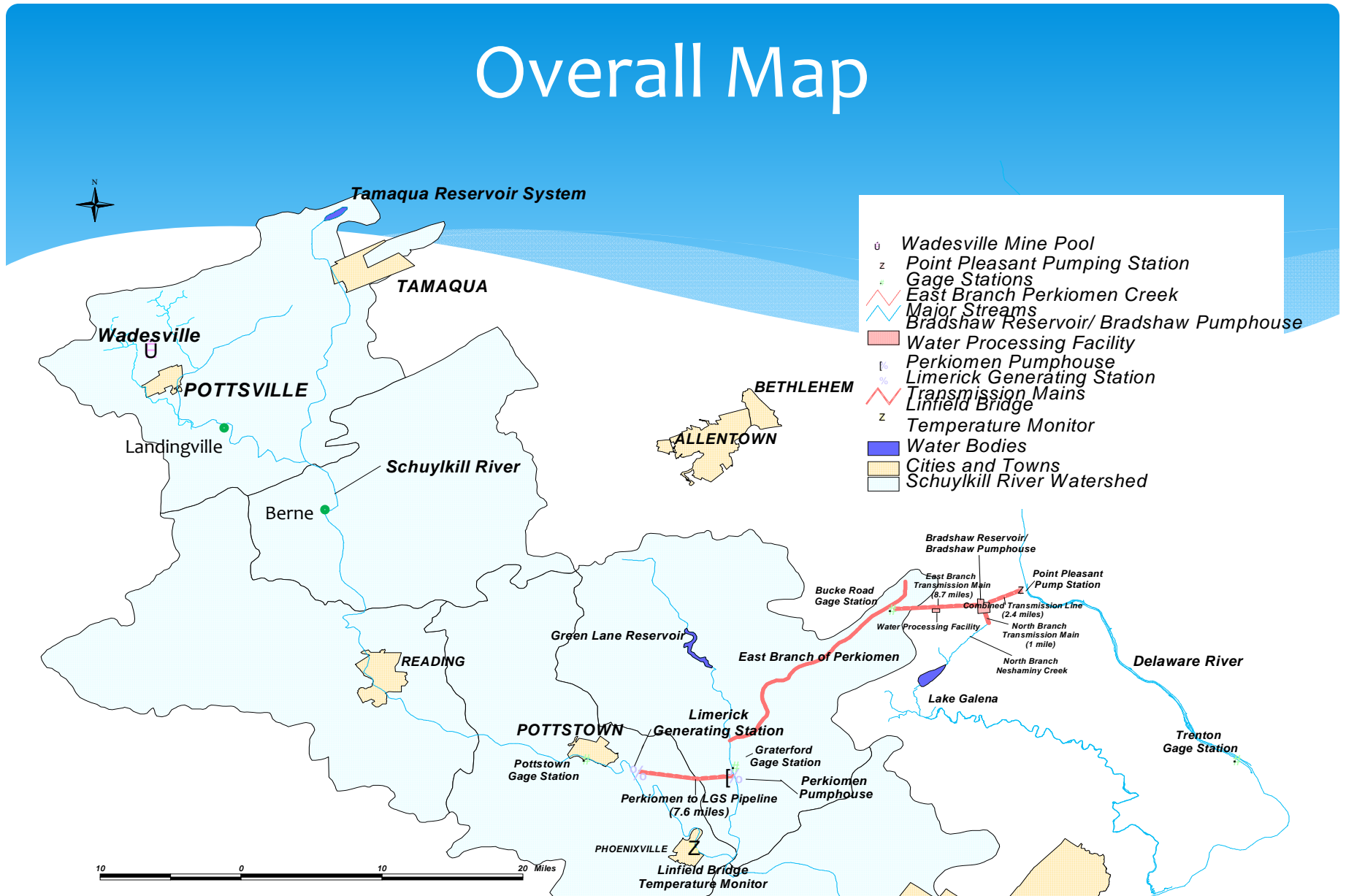
- Requires ambient monitoring/reporting at various locations in the following:
  1. Schuylkill River;
  2. East Norwegian Creek;
  3. Little Schuylkill River; and
  4. Still Creek
- Effluent monitoring at the LGS
- Annual report due on January 31 of each year

**F. Public Comments**

- Eleven (11) emails, fourteen (14) letters, and testimony from fifteen (15) individuals provided extensive written material for the record that was organized and addressed in a Comment and Response Document (C&R), which will be posted on the DRBC web site.

5/10/2013

# Overall Map



- ú Wadesville Mine Pool
- z Point Pleasant Pumping Station
- Gage Stations
- ~ East Branch Perkiomen Creek
- ~ Major Streams
- ~ Bradshaw Reservoir/ Bradshaw Pumphouse
- Water Processing Facility
- ⊥ Perkiomen Pumphouse
- ⊥ Limerick Generating Station
- ~ Transmission Mains
- ~ Linfield Bridge
- z Temperature Monitor
- Water Bodies
- Cities and Towns
- Schuylkill River Watershed