



SUSQUEHANNA RIVER BASIN COMMISSION

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Docket No. 20110610

Approval Date: June 23, 2011

EXELON GENERATION COMPANY, LLC THREE MILE ISLAND GENERATING STATION, UNIT 1

**Surface Water Withdrawal of up to 122.800 mgd
from the Susquehanna River;
Groundwater Withdrawal (30-Day Average) of 0.225 mgd
from Wells A, B, and C; and
Consumptive Water Use (Peak Day) of up to 19.200 mgd,
for Power Plant Operations and Electric Power Generation**

Section 1. Approval

After review of the record, including the technical findings of Susquehanna River Basin Commission (Commission) staff, the Commission determines that no adverse impacts to area surface water or groundwater withdrawals are anticipated by the operation of this project, and that the project is physically feasible, does not conflict with or adversely affect the Commission's Comprehensive Plan, and does not adversely influence the present or future use and development of the water resources of the basin. Accordingly, the application of the project sponsor requesting a withdrawal and the consumptive use of water in support of the project identified in Section 2, from the source identified in Section 3, is hereby approved by the Commission in accordance with the conditions set forth below.

Commission staff has coordinated with the Pennsylvania Department of Environmental Protection (PADEP), Pennsylvania Game Commission (PGC), Department of Conservation and Natural Resources (DCNR), and the Pennsylvania Fish and Boat Commission (PFBC) during review of this project.

Section 2. Project Information

Information concerning the project sponsor, water use type, and location are set forth in the table below.

Project Information	
Project Sponsor:	Exelon Generation Company, LLC
Approval Type:	Surface Water Withdrawal, Groundwater Withdrawal, and Consumptive Water Use
Water Use Type:	Power Plant Operation and Electric Power Generation
Municipality:	Londonderry Township
County:	Dauphin County
State:	Pennsylvania

Section 3. Source Information

Information concerning the sources of water from which the withdrawals will be made is set forth in the tables below.

Surface Water Source Information	
Approved Source:	Susquehanna River
Subbasin:	Lower Susquehanna
Watershed Boundary Dataset (WBD):	0205030510 (Susquehanna River)
Withdrawal Location (degrees):	Lat: 40.154722 N Long: -76.727500 W
Water Use Designation:	Warm Water Fishery (WWF)
Flow Statistics (cfs):	Q7-10 = 2,701; Average Daily Flow = 35,396
Special Flow Protection Required:	No
cfs – cubic feet per second	

The surface water withdrawal was in use prior to November 11, 1995, and did not previously require Commission approval. However, the application for increased surface water withdrawal at the facility subjected the existing withdrawal to review and approval under Commission Regulation 18 CFR §806.4(a)(2)(iv).

Groundwater Source Information	
Approved Sources:	Wells A, B, and C
Subbasin:	Lower Susquehanna
Watershed Boundary Dataset (WBD):	0205030510 (Susquehanna River)
Withdrawal Location (degrees):	Well A Lat: 40.153549 N Long: -76.726479 W
	Well B Lat: 40.153549 N Long: -76.726780 W
	Well C Lat: 40.153850 N Long: -76.726780 W
Special Flow Protection Required:	No

Section 4. Approved Withdrawal Quantities and Limitations

The surface water withdrawal approved hereunder is subject to the quantitative limits and restrictions set forth in the table below.

Approved Withdrawal Quantities and Limitations	
Peak Day Withdrawal Amount (mgd):	122.800 (Not to Exceed)
Maximum Instantaneous Withdrawal Rate (gpm):	85,277 (Not to Exceed)
mgd – million gallons per day gpm – gallons per minute	

The withdrawal is also subject to all other conditions set forth in this docket approval.

Section 5. Approved Consumptive Water Use Quantities and Limitations

The consumptive water use approved hereunder is subject to the quantitative limits and restrictions set forth in the table below.

Approved Consumptive Water Use Quantities and Limitations	
Sources for Project Consumptive Water Use:	1. Susquehanna River 2. Groundwater Wells A, B, and C
Peak Day Consumptive Water Use Amount (mgd):	19.200 (Not to Exceed)
Project Consumptive Water Uses:	1. Cooling Tower Evaporation 2. Blowdown Makeup 3. Industrial Cooling Evaporation 4. Spent Fuel Pool Evaporation 5. Instream Evaporation
Consumptive Water Use Mitigation Type:	Release of water for use replacement

The consumptive water use is also subject to all other conditions set forth in this docket approval.

Section 6. Existing Approved Groundwater Withdrawals

A summary of major conditions applicable to the existing approved groundwater withdrawals are listed in the table below.

Existing Approved Groundwater Withdrawals			
Source	30-Day Average Withdrawal (mgd)	Commission Docket No.	Docket Expiration Date
Wells A, B, and C	0.225	19961102-1	11/26/2021

As specified in Condition 16 in Section 8, all conditions of the docket referenced above are superseded by this approval. The approved groundwater withdrawals from the sources identified in Section 3 shall henceforth be subject to all conditions contained herein.

Section 7. Standard Conditions

1. The project sponsor shall comply with all Commission regulations, including metering and reporting requirements contained in Commission Regulation 18 CFR §806.30.

2. Within sixty (60) days from the date of this approval, the project sponsor shall submit a metering plan to the Commission for review and approval by Commission staff that accounts for the withdrawal and all consumptive water use. Following approval, the project sponsor shall execute the plan and complete any installation of meters or other means of measuring withdrawal and consumptive water use, in accordance with the approved schedule. Upon completion, the project sponsor shall certify to the Commission that the metering plan has been implemented.

3. The project sponsor or any other person shall allow authorized employees or agents of the Commission, without advance notice, at any reasonable time and upon presentation of appropriate credentials, and without delay, to have access to and to inspect all areas where the project is being constructed, operated, or maintained, or otherwise exercise all investigative powers authorized under Commission Regulation 18 CFR §808.12.

4. The project sponsor shall keep daily records of the project's withdrawal and consumptive water use and shall report the data to the Commission quarterly, and as otherwise required. Quarterly monitoring reports shall be submitted on-line and are due within thirty (30) days after the close of the preceding quarter. Any alternative measuring, monitoring, or accounting procedure requested by the project sponsor shall be submitted for review and, if appropriate, approved by Commission staff prior to implementing or modifying existing equipment or procedures.

5. The project's consumptive water use is subject to water mitigation requirements, as per Commission Regulation 18 CFR §806.22(b). To satisfy the Commission's requirements for consumptive water use mitigation, the project participated in the reallocation of storage in the Cowanesque Lake project and, through an agreement with the Commission, sponsored a total of 8,274 acre-feet of storage at the Cowanesque Lake project to mitigate consumptive losses during low flow periods. Of this amount, 4,250 acre-feet of storage are dedicated to mitigating the consumptive use approved at the time the contract was signed. The increased consumptive water use approved herein, in accordance with current Commission mitigation standards, will require an additional estimated 332 acre-feet of storage, for a total of 4,582 acre-feet of storage. Commission staff has determined the necessary storage to be available to the project sponsor.

6. The project sponsor shall comply with the water conservation requirements specified in Commission Regulation 18 CFR §806.25(b).

7. To satisfy the Commission's registration requirement, the project sponsor shall register with the PADEP all surface water and groundwater sources described in this docket in accordance with 25 PA Code §110.201, Pennsylvania Water Resources Planning Act, Act 220 of 2002.

8. If the project sponsor fails to comply with the provisions of the Susquehanna River Basin Compact or any rule, regulation, or order of the Commission, or any term or condition of this docket, the project is subject to enforcement actions pursuant to Commission Regulation 18 CFR §808.

9. Commission approval shall not be construed to exempt the project sponsor from obtaining all necessary permits and/or approvals required for the project from other federal, state, or local government agencies having jurisdiction over the project. All such permits and/or approvals shall be obtained prior to the withdrawal of water. The Commission reserves the right to modify, suspend, or revoke this action if the project sponsor fails to obtain or maintain such approvals.

10. The Commission reserves the right to reopen any project docket or issue such additional orders, as may be necessary, to mitigate or avoid adverse impacts or otherwise to protect public health, safety, welfare, or the environment, pursuant to Commission Regulation 18 CFR §806.32.

11. Commission approval confers no property rights upon the project sponsor. The securing of all rights necessary and incident to the project sponsor's development and operation of the project shall be the sole and exclusive responsibility of the project sponsor, and this approval shall be subject thereto.

12. This project is approved for inclusion in the Commission's Comprehensive Plan for the Water Resources of the Susquehanna River Basin.

13. Should the project's approved withdrawals or consumptive uses be expected to exceed the amounts listed herein, the project sponsor is required to make application for modification to this approval at that time.

14. This approval for surface water withdrawal and consumptive use of water is effective until April 19, 2034. This date coincides with the expiration date of Exelon Generation Company, LLC's license (Docket No. 05000289) from the U.S. Nuclear Regulatory Commission. As specified in Commission Regulation 18 CFR §806.31(e), the project sponsor shall submit an application by October 19, 2033, and obtain Commission approval prior to continuing operation beyond April 19, 2034.

15. The approval for groundwater withdrawal is effective until November 26, 2021. As specified in Commission Regulation 18 CFR §806.31(e), the project sponsor shall submit an application by May 26, 2021, and obtain Commission approval prior to continuing operation of the groundwater wells beyond November 26, 2021.

Section 8. Special Conditions

16. The Commission previously approved consumptive use and groundwater withdrawal at the facility in Commission Docket Nos. 19950302, 19950302-1, 19961102, and 19961102-1. All conditions and approvals of Commission Docket Nos. 19950302, 19950302-1, 19961102, and 19961102-1 are hereby superseded and rescinded.

17. The Commission previously adopted several resolutions prior to the approval of the above dockets, including Commission Resolution Nos. 82-5, 83-1, 89-12, 90-02, and 91-2, related to mitigation of consumptive use at the project. All provisions of those resolutions not inconsistent herewith shall remain effective.

CERTIFICATION: I, Stephanie L. Richardson, Secretary to the Susquehanna River Basin Commission, do hereby certify that the foregoing project docket was approved by the Susquehanna River Basin Commission on June 23, 2011.

Dated: June 24, 2011


Stephanie L. Richardson