Question #: HCR-1 Category: Historical and Cultural Resources

Statement of Question:

Provide a series of aerial photographs of the entire plant site and associated transmission line(s) (during pre-construction, construction, and post-construction periods) looking at levels of disturbance that occurred during construction or since operation, whether any historic structures or possible sites are present on the property, and identifying any recent projects that will require a review of additional documentation.

Response:

Aerial photographs of the plant site during the pre-construction and construction time frames are attached to this response. Also, in a letter dated February 1974, the Illinois SHPO stated that no cultural or historical sites of significance were located within the Byron project boundaries. A copy of the 1974 letter from the Illinois SHPO to the U.S. Atomic Energy Commission is attached to this response.

There are no ongoing or anticipated construction projects at Byron that would require review of additional documentation.

List Attachments Provided:

- 1. Aerial photographs
- Letter from Illinois State Historic Preservation Officer (A. Dean) to U.S. Atomic Energy Commission (D. Muller) regarding review of environmental reports for Braidwood, Byron, and Clinton Stations, February 1974.

BUMPOND LINE TRENCHING





RS H

















The following drawing

specifically reference

Map

Of

Archaeological

Site

D01



STATE OF ILLINOIS DEPARTMENT OF CONSERVATION Springfield 62706



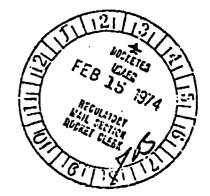
Docket Nos.: STN 50-45

STN 50-454, STN 50-455

STN 50-456, STN 50-457

STN 50-461, STN 50-462

Mr. Daniel R. Muller Assistant Director for Environmental Projects Directorate of Licensing U. S. Atomic Energy Commission Washington, D. C. 20545



Dear Mr. Muller:

The environmental reports prepared by Commonwealth Edison on Braidwood Station (Units 1 and 2, Will County) and Byron Station (Units 1 and 2, Ogle County) and Illinois Power Company's environmental report on the Clinton Power Station (Units 1 and 2, De Witt County) have been reviewed. This review was made to determine what effect, if any, undertaking the Byron, Braidwood, or Clinton projects would have on cultural and historical sites of significance within or adjacent to project work boundaries.

Archaeological studies conducted on the project sites by members of the Illinois Archaeological Survey for Illinois Power and Commonwealth Edison indicate the existence of archaeological sites within the boundaries of each of the three projects. Results of the archaeological surveys for each site should be included in the final environmental statements. The final statements should also indicate Commonwealth Edison's and Illinois Power's plans for archaeological salvage of the located sites and their plans for recording and salvage of archaeological sites which may be discovered during project construction.

It has been determined that, with the exception of the aforementioned archaeological sites, no cultural or historical sites of significance are located within the projects' boundaries. No National Register of

Historic Places sites are found within the project boundaries of the Braidwood, Byron, or Clinton Power Stations

Anthony T. Dean

Director

State Historic Preservation Officer

ATD: gjf

cc. Mr. George Montet, Building 1LA, Environmental Statement Projects,
Argonne National Laboratory, 9700 South Cass Avenue, Argonne,
Illinois 60439

Mr. Charles Bareis, Illinois Archaeological Survey, 109 Davenport Hall, University of Illinois, Urbana, Illinois 61801

Mrs. Ann Webster Smith, Director, Office of Compliance, Advisory Council on Historic Preservation, Washington, D. C. 20240

Question #: HCR-2 Category: Historical and Cultural Resources

Statement of Question:

Provide a copy of the avoidance measures recommended by the Illinois State Historic Preservation Office (IL SHPO) for construction of Byron as referenced in Section 2.11.2 of the ER.

Response:

Attached is Section 2.6.1 from the Byron Station ER-OL, as amended January 1983 (ComEd 1981a, p. 2.6-1). This section states (1) that "[i]t was recommended [in the 1974 Phase II Archaeological Report] that the sites along the Rock River in the river screenhouse area be fenced and construction crews be instructed to remain 50 feet from the fence in order to avoid impact during construction activities," and (2) that "[a]rchaeological site Oq-153 [sic], the only site near any construction activity, was fenced in the fall of 1976." [Note: While the ER-OL refers to archaeological site Oq-153, current SHPO records refer to the same site as 11OG153.]

Also attached is a letter dated September 18, 1974, in which the Illinois SHPO acknowledged receipt and review of the Phase II Archaeological Report for the Byron Station site. The letter notes that "safeguards are being taken to protect the known archaeological sites and that construction crews will be instructed to remain a minimum of 50 feet from them."

A copy of the Phase II Archaeological Report is attached to the response to Audit Needs Question HCR-12.

List Attachments Provided:

- 1. Section 2.6.1 from the Byron Station ER-OL, as amended January 1983 (ComEd 1981a, p. 2.6-1).
- 2. Letter from Illinois SHPO (A. Dean) to Commonwealth Edison (J.McCluskey), September 18, 1974.

2.6 REGIONAL HISTORIC, ARCHAEOLOGICAL, ARCHITECTURAL, SCENIC, CUTURAL, AND NATURAL FEATURES

This section reviews the findings of the historical study and the archaelogical surveys of both the Byron Nuclear Generating Station - Units 1 & 2 (Byron Station) site and the transmission line rights-of-way.

2.6.1 Plant Site

There are no sites on the station property that are included or are eligible for inclusion in the "National Register of Historic Places" (Federal Register 1977a, 1977b), the "National Registry of Natural Landmarks" (Federal Register 1975; Resseguie 1977), or the other listings of locally significant sites.

Although six historic sites were listed for Ogle County in the "National Register of Historic Places" (see Table 2.6-1), none of these will be affected by the Byron Station. The "Historic American Buildings Survey" (Ison 1977) lists three structures in Ogle County (see Table 2.6-1), and again none of these will be affected by the Byron Station. The "Pictorial Archives of Early American Architecture" (Ison 1977) lists four buildings in Ogle County, none of which will be affected by Byron Station (see Table 2.6-1).

Many areas of local historical interest, however, do exist in the area. Table 2.6-2 lists and briefly describes these historic sites and markers located within 10 miles of the site as supplied by information from various local sources (see references).

In February 1974, Anthony T. Dean, State Historic Preservation Officer for Illinois, stated that no cultural or historical sites in the area would be affected by Byron Station. A copy of his comments is included in Appendix 2.6A.

An archaeological survey of Byron Station was conducted in June 1973 by the University of Wisconsin - Milwaukee, a member institution of the Illinois Archaeological Survey. Seven previously unrecorded archaeological sites and one previously recorded site were encountered. In 1974 test excavations were performed to further evaluate the sites so that procedures could be developed that would preclude any potentially harmful effects. It was recommended that the sites along the Rock River in the river screenhouse area be fenced and construction crews be instructed to remain 50 feet from the fence in order to avoid impact during construction activities. Archaeological site Oq-153, the only site near any construction activity, was fenced in the fall of 1976. In September 1974, the State Historic Preservation Officer of Illinois stated that no archaeological sites would be disturbed by the construction of the Byron Station. A copy of his comments is included in Appendix 2.6A.

AMENDMENT NO. 3 MARCH 1982 AMENDMENT NO. 4 JANUARY 1983

2.6.2 <u>Transmission Line Rights-of-Way</u>

The historical sites of interest for the Byron East to Cherry Valley-Nelson transmission line right-of-way and the Byron South to Cherry Valley-Nelson transmission line right-of-way are the same as those listed in Subsection 2.6.1. The "Camling-Cline Mound Group," an archaeological site located in Section 10 of Rockvale Township in Ogle County, is being considered for nomination to the "National Registor of Historic Places." The Byron North to Wempletown right-of-way is adjacent to the site but does not impact on it. This right-of-way also crosses into Winnebago County where the "National Register of Historic Places" lists 13 sites (see Table 2.6-3). These sites will not be affected by the Byron North to Wempletown right-of-way. There are no sites listed on the "National Registry of Natural Landmarks" for Winnebago County.

Archaeological surveys were conducted on these transmission line rights-of-way out of Byron Station. The results of the surveys were submitted to the Illinois State Historic Preservation Officer, and his assessment of transmission line impacts on historic and cultural resources is contained in letters dated May 12 and July 16, 1981. Copies of these letters were submitted in response to NRC Question 310.4, which is part of Amendment No. 1 to this ER-OLS.

The Byron North to Wempletown transmission line will be visible at the Rock River crossing.

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3

4

Byron ER-OLS



STATE OF ILLINOIS



DEPARTMENT OF CONSERVATION

605 STATE OFFICE INHIDING 600 SOUTH SPRING ST. SPRINGFIELD 62706

CHICAGO OFFICE-1227 S. MICHIGAN AVE. 40605

September 18, 1974

Mr. J. P. McCluskey
Director of Environmental Affairs
Commonwealth Edison
Post Office Box 767
Chicago, Illinois 60690

Dear Mr. McCluskey:

On August 22, this office received the Phase II Archaeological Report for the Byron Station site. The Report has been reviewed and the Department is satisfied that no archaeological sites will be disturbed by construction activities detailed in your transmittal letter and surveyor's map. It is noted that safeguards are being taken to protect the known archaeological sites and that construction crews will be instructed to remain a minimum of 50 feet from them. Thank you for this opportunity of review and comment.

Sincerely,

Anthony T. Dean

Director

State Historic Preservation Officer

· ATD: tmm

Question #: HCR-3 Category: Historical and Cultural Resources

Statement of Question:

Provide any maintenance or avoidance measures currently in place for site 11OG153, or any other site within Byron site boundaries.

Response:

Specific avoidance measures have not been implemented for site 11OG153 or other archaeological sites within the Byron owner-controlled area because the Final Environmental Statement related to operation of Byron specifies no mitigation requirements for historic and archaeological sites on the Byron plant site (NRC 1982, p. 9-5) and states that "[o]peration of the plant will not result in any significant impact on historic and archeological sites in the area" (NRC 1982, pp. iv and 5-17).

Copies of the pertinent pages from NRC 1982 are attached.

List Attachments Provided:

- 1. Page iv from NRC 1982
- 2. Page 5-17 from NRC 1982
- 3. Page 9-5 from NRC 1982

- a. The additional generating capacity provided by operation of Units 1 and 2 of the Byron station will result in a significant savings in system production costs and will assist CECo in maintaining a diverse the of generating resources (Sec. 2).
- b. The land use impacts will be small (Sec. 5.2).
- c. The Byron station will draw most of the water it consumes in operation from the Rock River; a small portion for the makeup water system will be pumped from wells. The average net use will be about 1.3 m³/sec (47 cfs), which is about 1% of the average annual flow; therefore, no water-use impacts are expected (Sec. 5.3.1).
- d. The chemical, thermal, and other waste discharges into the Rock River will be rapidly assimilated; hence, no adverse impacts on downstream water users or aquatic biota are expected (Secs. 5.3.2 and 5.5.2). The staff expects that applicable standards will be met.
- e. The plant area does not alter the flood plain of the Rock River or its tributaries in the vicinity to affect their flood-prone areas (Sec. 5.3.3)
- f. There will be a visible plume extending from the cooling tower most of the time; however, the ground-level fogging and icing caused by this plume will be negligible (Sec. 5.4.1).
- g. The potential for impacts on the terrestrial ecosystem, which could be caused by operation of the cooling-tower emissions, bird impaction, noise, or transmission-line effects, has been examined and no additional impacts are expected (Sec. 5.5.1).
- h. The potential for impacts on the aquatic ecosystem, which could be caused by impingement or entrainment, thermal discharges, or discharges of chemical and sanitary wastes, has been examined and are expected to be small (Sec. 5.5.2).
- i. Operation of the plant will not have an adverse effect on any rare, endangered, or threatened species (Sec. 5.6).
- j. Operation of the plant will not result in any significant impact on historic and archeological sites in the area nor along the transmission corridors (Sec.) 5.7).
- k. The staff concludes that the primary socioeconomic impacts of plant operations are tax benefits and employment. Other socioeconomic impacts of operation are expected to be small (Sec. 5.8).
- 1. No significant environmental impacts are anticipated from normal operational releases of radioactive materials. The estimated maximum individual dose for a member of the public subject to the maximum exposure will be very small compared to natural-background doses. As a result, the staff concludes that there should be no measurable radiological impact on members of the public from routine operation of the plant (Sec. 5.9.3).

5.7) Historic and Archeological Sites

Operation of the station will not result in any significant impact on historic and archeological sites (in) the area (FES-CP) Section (5%1) nor along the transmission corridors (ER-OL. RQ 310.4). However, as directed in a letter from the State Historic Preservation Officer to the applicant (See Appendix H), care must be taken to avoid the known archeological sites in the transmission corridors during maintenance activities, and in the event that a future major ground disturbance related to the operation and maintenance of the transmission lines is anticipated at the sites, the applicant is required to consult the SHPO before taking action. The applicant shall provide copies of this correspondence to NRC.

5.8 Socioeconomics

The socioeconomic impacts of station operation are analyzed in Section 5.5 of the FES-CP with visual impacts covered in Section 5.1.2. The primary impacts of plant operation are tax benefits and employment. The tax benefits are estimated to be approximately \$11 million (1981 dollars) in 1985 when the station is scheduled to be completed. These annual revenues will be paid to nine local jurisdictions ranging in amount from \$4.9 million to \$10,900 (1981 dollars) as shown in Table 5.5. The plant will employ about 400 personnel when operating, with an annual payroll of \$10.9 million (1981 dollars). Approximately 25% of these will be local hires. There will also be 100 security force employees with an annual payroll of \$1,450,000 (1981 dollars). It is estimated that all of the security staff will be hired locally. (ER-OL, RQ 310.7.) The inflow of operating personnel will not significantly affect local services experies by when compared to the number of workers required for the construction phase of the station.

Table 5.5 Byron station property taxes

Taxing Jurisdiction	1985 Estimated*
Ogle County	\$ 2,022,800
Rockvale Township	1,322,600
School District U-226	4,944,300
Byron Fire District	1,516,000
Junior College District 511	629,200
Oregon Park District	313,300
Byron Library District	45,900
School District U-220	199,200
Junior College District 52?	10,900
	\$11,604,200

^{*1981} dellars.

Source: ER-OL, Amendment No. 1, Table 8.2-1.

on the Byron station property had been buried by others prior to the acquisition of the property by Commonwealth Edison and has been reported to be cleaned up in a satisfactory manner by the Illinois EPA. Additional monitoring of ground-water wells will be conducted by the Illinois EPA to monitor the effects of dumping on adjacent property.

9.5.3.1 Aquatic (DI-2, CECo-29, CECo-32)

DI commented on Section 5.5.2.1. This section has been revised based on comments received from the applicant (see Appendix A). The applicant points out that neither the operational Section 316(b) demonstration study nor the concerns of the IDOC to be studied include entrainment. The applicant has committed to keep the Rock Island Field Office of the Fish and Wildlife Service informed of the findings from both the NPDES menitoring program and the special study addressing the IDOC concerns (according to a letter from C. L. McDonough, Commonwealth Edison Director of Environmental Assessment, to S. Chesnut, NRC Licensing Project Manager, March 9, 1982).

In response to the applicant's comments, the first sentence on page 5-16 has been deleted. Corrected information is in Section F.5.2.2.

Section 5.5.2.2 has been revised to reflect the monitoring requirements specified by the NPDES permit and the applicant's agreement with the IDOC.

However, while Section 5.5.2.2 has been revised, the title has not been altered as suggested because the applicability of the information is stated in the first sentence of the revised text.

A new Section 5.5.2.3 has been added to clarify the separate monitoring program being conducted under the agreement between the applicant and the IDOC.

9.5.4 Historic and Archeological Sites (CECo-33)

It was not the staff's intent to eliminate CECols communication with the SHPO but that SHPO and NRC be informed if archeological sites in the transmission corridors are to be affected by future activities (See revised Section 5.7.)

9.5.5 Radiological (CECo-35; HHS-1, -2; EPA-1, -2, -5; IDNS-3, -4, -5)

In response to CECo and IDNS, the staff's judgment that the calculated results of the consequences are more likely overestimates is based upon the following:

- (1) The release fractions of fission products, shown in Table 5.11, are believed to be conservatively high for those radionuclides that are dominant risk contributors. This is due to the complexities of modelling more accurately natural plate-out and aerosol agglomeration and settling tendencies within containment.
- (2) The meteorological dispersion model employed is believed to be conservative.
- (3) The staff's estimates of the effectiveness of protective actions, particularly evacuation times, are believed to be conservative.

Question #: HCR-4 Category: Historical and Cultural Resources

Statement of Question:

Provide a description of how historic and cultural resources are considered in land disturbing activities.

Response:

Exelon Generation has adopted a procedure applicable to nuclear power plants that provides a process for screening of proposed activities by responsible individuals to determine whether further evaluations for environmental impacts are warranted. [EN-AA-103] Examples of activities that would qualify for further evaluation and that could involve land disturbance include [EN-AA-103-F-02]:

- Changes to or installation of storm drains, ditches or swales (e.g., changes to culverts, removal/addition of vegetative cover, changes to grade, blocking stormwater pathways)
- Changes to or installation of dikes, dams or appurtenances
- Construction, demolition or abandonment in place of any site or non-generating facility buildings or structures
- Dredging or silt removal from intake structures or other structures
- Land disturbance of >1 acre for any one activity, well drilling, soil boring, or changes that would alter storm water runoff
- Paving of previously unpaved areas

Activities determined to warrant further evaluation are reviewed by Environmental personnel to determine whether the actual or potential environmental impacts of the activity are bounded by the environmental basis for the nuclear power plant. [EN-AA-103-F-02] In the case of a land disturbing activity, the cultural, historical and paleontological resources environmental basis for Byron Station has been summarized in a Cultural Resources Management Plan (CRMP), which identifies previously disturbed areas and the locations of known archaeological sites within the Station's boundaries. If the actual or potential impacts of excavation associated with the activity are not bounded by the environmental basis, then a supplemental cultural resources survey may be performed based on consultation with the State Historic Preservation Officer. [EN-AA-103-0001]

List Attachments Provided:

Question #: HCR-5 Category: Historical and Cultural Resources

Statement of Question:

Provide a description of the process for inadvertent discovery of historic and cultural resources.

Response:

If cultural, historic or paleontological resources are uncovered during an ongoing excavation at the Byron Station, the work would be stopped, appropriate notifications would be made, a cover would be positioned to protect the exposed resources from the elements, access to the area would be controlled with barriers and/or signs, and work would not resume until authorized by Environmental personnel. Also, Environmental personnel would coordinate the salvage or disposition of any recovered resources. [SA-AA-117]

List Attachments Provided:

Question #: HCR-6 Category: Historical and Cultural Resources

Statement of Question:

Provide a description of ComEd's transmission line management plan, including: timing of activities, danger tree removal and other clearing, inspections and repair activities conducted by ground vehicles, standard operating procedures or guidelines for the applicant and any contractors; erosion control procedures, technician training programs, and any regulations that restrict maintenance activities (e.g., looking for activities that could affect depth of disturbance, if any disturbance is necessary along the corridor).

Response:

In the Byron Station License Renewal ER, Exelon Generation applied the NRC regulations and guidance that were in effect at the time the Byron and Braidwood License Renewal Application (LRA) was submitted (May 2013) to define for which transmission lines environmental impacts should be analyzed. Under the previous regulations and guidance, the in-scope transmission lines for Byron license renewal included the transmission lines that were constructed with the station to connect it to the regional electricity grid. Such lines, which are all owned and operated by ComEd, are identified in the Byron License Renewal ER as follows:

- Byron to Wempleton (345-kV line extending north from the Byron switchyard)
- Byron to Cherry Valley (double circuit 345-kV lines extending east from Byron switchyard)
- Byron South (345-kv line extending south from Byron switchyard)

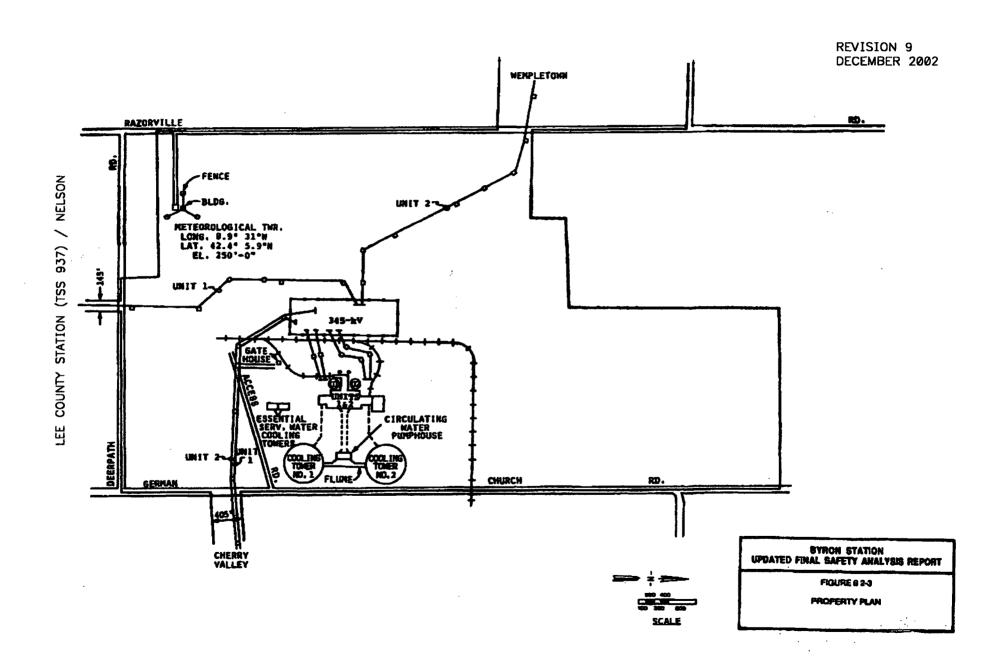
In June 2013, after the Byron and Braidwood LRA was submitted, the NRC finalized regulations that changed the requirements and guidance defining which transmission lines would be within the scope of license renewal environmental review. Under the new regulations, in-scope transmission lines are defined as transmission lines that connect the nuclear power plant to the substation where electricity is fed into the regional power distribution system and transmission lines that supply power to the nuclear plant from the grid [10 CFR 51, Appendix B to Subpart A, Table B-1, Footnote 4]. This definition is further explained in the Statement of Considerations for the final rule, which states that "those transmission lines that would not be impacted by a license renewal decision (i.e., those lines that would not be dismantled or otherwise decommissioned as a result of a plant terminating operations because its operating license had not been renewed) are considered beyond the scope" for the license renewal environmental review. [78 Federal Register 37296 – 37297; June 20, 2013]

Because the NRC will now apply the new regulations to define the scope of transmission lines for which environmental impacts are analyzed in the License Renewal Supplemental Environmental Impact Statement for Byron Station, Exelon Generation has revisited its original evaluation of the in-scope lines. Electricity generated at Byron Station is transformed from generator voltage to a nominal 345-kV transmission system voltage by the main power transformers. The main power transformers are connected via intermediate, on-site transmission lines to the on-site 345-kV Byron Station

switchyard. The location of the intermediate transmission towers on the site property is shown in Byron UFSAR (Exelon Nuclear 2010a), Figure 8.2-3. For ease of reference, a copy of the figure is attached to this response. Based on this information and that there are no other transmission lines that would be dismantled or otherwise decommissioned as a result of terminating operations at Byron, Exelon concludes that, under the new regulations, the intermediate, on-site transmission lines are the only in-scope transmission lines for the Byron license renewal environmental review. These transmission lines are located entirely within the station's protected area. Grounds management practices for that area are described in the Request for Additional Information Response HCR-7.

List Attachments Provided:

Byron UFSAR (Exelon Nuclear 2010a), Figure 8.2-3



Question #: HCR-7 Category: Historical and Cultural Resources

Statement of Question:

Provide information on management around less-developed areas of the plant site, especially near known historic and cultural resources or near unsurveyed areas, if applicable.

Response:

Vegetation control at Byron station is the responsibility of the Facilities Maintenance Department. The following guidelines are used as the basis of operation for this activity.

- Regular "Yard" areas both inside and outside of the PA are generally mowed on a regular basis to maintain a height of 6" or less. (e.g., training, plant entrance, shooting range)
- Secondary Security sensitive areas inside and outside the PA are mowed less
 frequently to maintain vegetation at 12" to 16" or less. These areas are located
 outside from the center of the plant, and their boundaries depend on defensive
 strategies of the security force. Security supervision contacts facilities
 maintenance if the vegetation becomes overgrown to a point that it may hinder
 their activities. Facilities staff and security management tour these areas as
 needed to discuss possible issues or special requests. (e.g., along south road,
 natural draft cooling towers -- East side)
- Outlying These are areas that are of less significance to security and the
 overall aesthetics of the site, but warrant some degree of vegetation control for
 work access, security inspections, or noxious weed control. These areas have a
 goal of being mowed twice per year. (e.g., North of main parking lot, outlying
 areas of shooting range)
- Blowdown The blowdown line and 345 kv line to RSH areas have a goal of being mowed at least twice per year with more frequent mowing dependent on work activities and inspection access. These areas are also monitored for tree growth/infringement on the power lines.
- Less developed Less developed, unsurveyed areas of station property not encompassed in the areas previously described are maintained only in response to special requests.

Note: The frequency of mowing activities is subject to weather, other work load, plant priorities, and staffing levels.

Note: The known historic and cultural resources indicated on the map in the Cultural Resources Management Plan are not maintained in any way differently than any of the other landscape in the immediate surrounding area.

List Attachments Provided:

Question #: HCR-8 Category: Historical and Cultural Resources

Statement of Question:

Provide documentation of construction projects that have occurred on the property since the construction of Byron to determine how historic and cultural resources were considered. Any documentation demonstrating compliance with existing environmental procedures would be useful. What materials are used by the staff to determine whether the SHPO should be consulted?

Response:

No construction projects have occurred at the Byron Station since existing procedures requiring environmental review of such projects were implemented, which occurred a few years after the merger in October 2000 of Unicom Corporation and PECO Energy Company to form Exelon Corporation. Prior to the merger, documentation of environmental reviews associated with construction on the Byron owner-controlled property was not archived.

For future reviews of proposed land-disturbing construction projects, Byron environmental personnel will review the cultural, historical and paleontological resources environmental basis for Byron Station, which has been summarized in a Cultural Resources Management Plan (CRMP). The CRMP identifies previously disturbed areas and the locations of known archaeological sites within the Station's boundaries. If the actual or potential impacts of excavation associated with the project are not bounded by the environmental basis, then the State Historic Preservation Officer would be consulted concerning the need for a supplemental cultural resources survey. [EN-AA-103-0001]

List Attachments Provided:

Question #: HCR-9 Category: Historical and Cultural Resources

Statement of Question:

Provide a percentage of disturbed and undisturbed land within the Byron Site.

Response:

Exelon Generation believes that areas occupied by the power block, switchyard, and other supporting facilities (approximately 154 acres) [Byron UFSAR Section 2.4.2.3, pp. 2.4-6a to 2.4-7] as well as the pipeline corridor (approximately 384 acres) [Byron UFSAR Section 2.1.1.2, p. 2.1-2] were all disturbed by original construction of Byron Station. These areas (approximately 538 acres total) represent 30 percent of the total Byron Station land area (approximately 1,782 acres) [Byron UFSAR Section 2.1.1.2, p. 2.1-2]. Approximately 47 percent of the total Byron Station land area (840 acres) has been leased for agricultural purposes. Such land is considered disturbed because most of it is tilled. The remaining 23 percent of the Byron Station land area (404 acres) is undisturbed land.

List Attachments Provided:

Question #: HCR-10 Category: Historical and Cultural Resources

Statement of Question:

Provide information about the percent of leased land within the Byron site; how much of the land within the Byron site is directly owner-controlled?

Response:

The Byron Station occupies approximately 1,782 acres of land. This area consists of the main site area and the pipeline corridor to the Rock River. The main site area occupies approximately 1,398 acres, while the corridor occupies the remaining 384 acres. [Byron UFSAR Section 2.1.1.2, p. 2.1-2] Approximately 840 acres (47 percent) of the total land area occupied by the Byron Station is leased for agricultural use. The power block, switchyard, and other supporting facilities under continuous surveillance occupy approximately 154 acres (9 percent) of the total station land area. [Byron UFSAR Section 2.4.2.3, pp. 2.4-6a to 2.4-7]

Regarding control of leased land within the Byron site, Exelon Generation generally retains an unrestricted right to enter, use, and dispose of the leased land for its business purposes and in the event of emergencies. Also, subleases are not allowed, and leases typically restrict use of the leased land solely to a designated purpose, such as for farming and agricultural purposes, for cultivating crops, and/or for pastureland. In addition, some leases may prohibit certain specific activities on the leased land, such as removing top soil, changing the original ground grade level, altering the natural water drainage pattern, and installing irrigation systems.

List Attachments Provided:

Question #:	HCR-11	Category:	Historical and Cultural Resources								
Statement of Question:											
Is there any formal cultural resource training for Byron staff?											
Response:											
Byron Station personnel receive no formal cultural resources training.											
List Attachm	ents Provided	•									
None.											

Question #: HH-1 Category: Human Health

Statement of Question:

Provide NPDES monthly discharge monitoring reports for the past five years.

Response:

The NPDES monthly discharge monitoring reports for all months of years 2008 through 2012 and January through July 2013 are provided.

List Attachments Provided:

- 1. NPDES monthly discharge monitoring reports for January 1, 2013 through July 31, 2013.
- 2. NPDES monthly discharge monitoring reports for January 1, 2012 through December 31, 2012
- 3. NPDES monthly discharge monitoring reports for January 1, 2011 through December 31, 2011
- 4. NPDES monthly discharge monitoring reports for January 1, 2010 through December 31, 2010
- 5. NPDES monthly discharge monitoring reports for January 1, 2009 through December 31, 2009
- 6. NPDES monthly discharge monitoring reports for January 1, 2008 through December 31, 2008



Exelon Generation Company, LLC Byron Station 4450 North German Church Road Byron, IL 61010-9794 www.exeloncorp.com

Nuclear

February 25, 2013

LTR: BYRON 2013-0029

File: 2.09.0411

1.10.0101

Illinois Environmental Protection Agency Water Pollution Control Compliance Assurance Section #19 1021 North Grand Avenue East P.O. Box 19276 Springfield, IL 62794-9276

Subject: Byron Station Monthly Discharge Monitoring Report

In accordance with National Pollutant Discharge Elimination System (NPDES) Permit Number IL0048313, issued January 24, 2011, we are submitting the Discharge Monitoring Report for Byron Station, Units 1 and 2. This report covers the period of January 1, 2013 through January 31, 2013.

Special Condition 14 of the NPDES permit requires the station to weigh the copper anodes at the end of the zebra mussel control season and to include the total mass of copper used in the discharge monitoring report. The zebra mussel copper ion skids were shut down on December 26, 2012. The anodes of the 0A copper ion skid were removed and weighed on January 24, 2013. The anodes of the 0B copper ion skid were removed and weighed on January 24, 2013. The total mass of copper used for zebra mussel control was 221 pounds.

If there are any questions regarding this report, please contact Ms. Zoe Cox, Environmental/Radwaste Supervisor, at (815) 406-3035.

Respectfully,

Benjamin P. Youman

Plant Manager

Byron Nuclear Generating Station

BPY/ZC/eh

Attachments

DMR Mailing ZIP CODE:

A01-0

DISCHARGE NUMBER

CS

61010

MAJOR (SUBR 01)

DEMINERALIZER REGENERATE WASTE (001A) External Outfall

*** NO DISCHARGE

3

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) **DISCHARGE MONITORING REPORT (DMR)**

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY **Byron Nuclear Power Station** LOCATION 4450 North German Church Road

Byron, IL 61010

	MONITORING PERIOD									
	MM/DD/YYYY		MM/DD/YYYY							
FROM	01/01/2013	το	01/31/2013							
QUANTITY	OR LOADING	C	UANTITY OR CONCENTRATIO							
· · ·	···									

IL0048313

PERMIT NUMBER

PARAMETER		QUAI	NTTTY OR LOADING	G	QUANTITY OR CONCENTRATION					FREQUENCY	SAMPLE
FARAIRCIEN		VALUE VALUE UNITS		VALUE	VALUE	VALUE VALUE		EX	ANALYSIS	TYPE	
olids, Total Suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	<1.3 <1.3		19 0		01/30	08
0530 1 0 ffluent Gross	REQUIREMENT					SODA-AVG	DAIS (MXC)	o noc		Wenty	COMP
thromium, hexavalent as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
1032 1 0 ffluent Gross	ALCOUREMENT.	TO THE STATE OF	nam Tali	oto s	200	SOUNTY CO	DAILYCVI	102	2	- 1910y	
rhromium, total us Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
1034 1 0 ffluent Gross	REGUIREMENTS					ODAAVO -	DAILYMA			Dan	@:X:
opper, total ts Cu)	SAMPLE MEASUREMENT	*****	*#***	*****	*****					500	
1042 1 0 ffluent Gross	ERECUIREMENT	e inco				SODA AVG	- 300 × 100 × 1	orie.	1	DAY.	(elby)
on, total as Fe)	SAMPLE MEASUREMENT	*****	*****	*****	******	*****				500	
1045 1 0 ffluent Gross	PERMO REQUIREMENTS						S DATA WAS				era:
ead, Total is Pb)	SAMPLE MEASUREMENT	******	******	*****	*****			3r · · · · · · · · · ·		500	
1051 1 0 ffluent Gross	HEOVIHEMENT					SCOPACYG-C	S ONLY M.C.	122		P [®]	e e e
lickel, total as Ni)	SAMPLE MEASUREMENT	*****	*****	*****	*****	i				500	
1067 1 0 ffluent Gross	REQUIREMENTS		26.28	opon :	e ha erina e	5057 Vig.	SHOULD -	. 101		PW	eryt.
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision i	n accordance with a s	ystem designed to assu	re that qualified	personnel	a . a .	TE	LEPHONE		DATE	
Benjamin P. Youman	properly gather and evalue the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am							406-3700		02/25/2013	
Plant Manager	aware that there are sign fine and imprisionment for	ufficant penalties for su			EXECUTIVE OFFICER OR AREA NUMBER CODE				MM/DD/YYYY		
OMMENTS AND EXPLANAT There was no discharge of particular in the state of the stat	processed steam gen	•		-	onth.						

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

PAGE 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

DMR Mailing ZIP CODE:

1/8/2012

PAGE 2

MAJOR

61010

NAME	Exelon Generation Co., LLC		!L0048313				A01-0			(SUBR 01)	CS			
ADDRESS	ADDRESS 4300 Winfield Road		PERMIT NUMBER				DISCHARGE NUMBER							
	Warrenville, IL 6	0555-5701								DEMINERALIZER REGENERATE WASTE (001A)				
					MONITORING PERIOD									· ·
FACILITY	Byron Nuclear Po	ower Station		MM/D	MM/DD/YYYY			MM/DD/YYYY						
LOCATION	4450 North Gern	nan Church Road	FROM	01/01	1/2013		то	01/31/2013		7	• •	· NO DI	SCHARGE] • • •
	Byron, IL 61010													•
ATTN: Zoe	Cox/ENV SPEC													
			QUA	ANTITY OR LOADING				QUANTITY OR CONCENTRATION				NO.	FREQUENCY	SAMPLE
PAF	RAMETER		VALUE	VALUE UNITS		VALUE		VALUE VALUI		LUE UNITS		EX	OF	TYPE
Zion Total		C41401 E	VALUE	VALUE			TABUL	VALUE	17.50		ORITS	ļ	ANALYSIS	
Zinc, Total (as Zn)		SAMPLE MEASUREMENT	*****	******	*****	Į	*****		į			l	500	Į
01092 1 0		PERMIT					-53	SPACE ENGINEER				S		
Effluent Gro	S3	FREQUIREMENT						S SODA AVG 71	EDAILY.	VIX.			A COLVE	# GRAB
Flow, in con		SAMPLE	0.057	0.243	3		*****	*****	****	•	*****	0	01/01	ES
treatment pla	ant	MEASUREMENT					70.512.00	7.76. E.30. 1.7. 27. VACON	102	,	ATTENDED	200	01/01	2.0
50050 1 0 Effluent Gro	ae	PERMITANT			Mgayo.		True.		in with	8	OT TO		(0.4)	CONTIN
Emdent Gro	55	SAMPLE	WESODING VOSE	(da de marie istant de les	Contract of Gradiente	10000000	DIVERSE AND COMME		190000	M. PAPA	April 1985	A CONTRACTOR OF THE PARTY OF TH	September 201	690000 300 150 TO
i		MEASUREMENT	1			ļ		İ				ļ.	ĺ	l
1					12.7%	6.3	32° . 6. 3		A	1				N 14-3-15
		REQUIREMENT				*****				200		د		
i		SAMPLE				l				1				i
1		MEASUREMENT	100.531	Maria de la compansión de		9	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		STO POLICE	t vere e		4 - 5 - 5 - 5 - 5	
		HEOUIREMENT			0.0	17 m				- 38	The state of		The state of	
		SAMPLE												
ŀ		MEASUREMENT				,	7:					<u></u>		
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		REQUIREMENT				100 PM			300 m		A SECTION AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRES	A 23 15	M ALLENSANIA	
	•	MEASUREMENT	Ì	ŀ										1
l .		PERPERMIT		100 100 100 100 100 100 100 100 100 100	No.	(** S.)	Y W					- N		
L		REQUIREMENT		3 3 4 4 5		*								
	_	SAMPLE	1					j				i —		1
		MEASUREMENT		EST POLITICAL TO A			18 18 TO 19 TO					7 T. Salari B. Salari		
		HEOUR EMENTS												
NA.	ME/TITLE		James at a week at a large		100000000000000000000000000000000000000	Table St. March	N. 7-18-18-17-18-1		Takasa sa sa	Ī	A STATE OF THE PARTY OF THE PAR	20,000		
	XECUTIVE OFFICER		certify under penalty of law that this document and all attachments were prepared under my rection or supervision in accordance with a system designed to assure that qualified personnel							TELEPHONE		l	DATE	
		properly gather and evalute the information submitted. Based on my inquiry of the person or persons							~~~	815	406-3700	_	000000000	
Benjam	Benjamin P. Youman who manage the system, or those persons din information submitted is, to the best of my known							CIONATA DE CE CONSCIONE				ŀ	02/25/2013	•
Plan	Plant Manager aware that there are significant penalties for su		ibmitting false information, including the possibility of				1 2 1/2		AREA	NUMBER	MM/DD/YYYY			
TYPED OR PRINTED fine and imprisionment for knowing violations.			i i					CODE	DE HAMADONTTT			T		
COMMENTS	S AND EXPLANAT	TON OF ANY VIOLA	TIONS (Reference	e all attachments l	nere)									
1. Flows for	January 2013 are	estimated based on .	July 2012 values o	due to totalizers beir	ng Out of Sen	/ice. T	he totalize:	rs are an obsolete mo	del and worl	k orders	are in place	to find		
replacen	nent totalizers and	get them installed in t	the system.											
l .														

01/31/2013

01/01/2013

		DISCHARGE MONIT	ORING REPORT (DMR)				
PERMITTE	E NAME/ADDRESS		• •				
NAME	Exelon Generation Co., LLC	IL0048313	B01-0				
ADDRESS	4300 Winfield Road	PERMIT NUMBER	DISCHARGE NUMBER				
	Warrenville, IL 60555-5701						
	C	MONITORING PERIOD					
FACILITY	Byron Nuclear Power Station	MM/DD/YYYY	MM/DD/YYYY				

FROM

LOCATION 4450 North German Church Road

Byron, IL 61010

OMR Mailing ZIP CODE:

61010

MAJOR (SUBR 01)

STP PLANT EFFLUENT (FORMER 0018) External Outfall

CS

*** NO DISCHARGE

PARAMETER		QUAN	ITTLY OR LOADING	G		QUANTITY OR CON	CENTRATIO	N		NO.	FREQUENCY	SAMPLI	
		VALUE	VALUE	UNITS	VALUE	VALUE	VALU	E	פדואט	EX	ANALYSIS	TYPE	
3OD, 5-Day 20 Deg. C)	SAMPLE MEASUREMENT	0.19	0.23	26	*****	5.0	6.0		19	0	02/30	24	
00310 1 0 Effluent Gross	AEOUIREMENT.	eneavyc.		X 71		2 DO NO	VOLUEY)		THE STATE OF	2.4	Turn Bir Mahi	20315	
эн	SAMPLE MEASUREMENT	*****	*****	******	7.08	*****	7.52		12	0	02/30	GR	
	A IEOUIRE LEVIE				AMMINIAN.		WXX	JXI	. (10)		min Por Virgin	e X	
Solids, total suspended	SAMPLE MEASUREMENT	0.10	0.12	26	*****	2.7	3.3		19	0	02/30	24	
00530 1 0 Effluent Gross	REQUIREMENTS	55 SODA AVG	0.5 0.10400				DAISA	AX S			marketonia.	, 60V }	
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.005	0.011	3	•••••	*****	*****		******	0	01/01	CN	
50050 1 0 Effluent Gross	REQUIREMENTS	SODA AVG	BAIYWX	Mograls								COUNT	
	SAMPLE MEASUREMENT												
	SECOND EXT							2					
	SAMPLE MEASUREMENT		,			~						~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
	PROPERTY OF THE PARTY OF THE PA												
	SAMPLE MEASUREMENT		and the second s		C. One Committees	March 1 and			57' 5 50 t T 5')	Em Transferration of the M	2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
	REQUIREMENTS												
	I certify under penalty of direction or supervision in	accordance with a sy	ystem designed to assu	re that qualified	personnel	TELEPHONE					DATE		
Benjamin P. Youman	properly gather and evalute the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am										02/25/2013		
Plant Manager	aware that there are sign fine and imprisionment to	ificant penalties for su				EXECUTIVE OFFICE		AREA	NUMBER		MM/DD/YYY	Y	
TYPED OR PRINTED COMMENTS AND EXPLANAT			all attachments b			AUTHORIZED AC	JEN I	CODE					
1. Flow existed through this out		•	ali attachments r	iere)									
							13						
EPA Form 3320-1 (Rev 01/0)6) Previous editions	may be used					1.				1/8/2012	PAG	

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE N	AME/ADDRESS
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NAME Exelon Generation Co., LLC ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	C01-0
PERMIT NUMBER	DISCHARGE NUMBER

[MONITO	RING	PERIOD
	MM/DD/YYYY		MM/DD/YYYY
FROM	01/01/2013	στ [01/31/2013

DMR Mailing ZIP CODE:

MAJOR

(SUBR 01) CS

WWTP (FORMER 001C) External Outfall

... NO DISCHARGE

61010

PARAMETER		QUA	TITY OR LOADING	3		QUANTITY OR CON	CENTRATIO	١		NO.	FREQUENCY	SAMPLE
T AT CHINE LETY		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE		UNITS	EX	ANALYSIS	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	4.6	6.6		19	0	02/30	24
00530 1 0 Effluent Gross		r comp	9.78	· ve proping	k Time	EDDVXXG.	on Sar	n^{-2}	nega.			/ CONFE
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	*****	20040	*****	*****					Сремер	500	
01032 1 0 Effluent Gross	เลือบที่เกิด เลือบที่เกิดที่สำลัก				7.7	elea avg		ne c	TIPLE			(E)/(E)
Chromium, total as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****						500	
01034 1 0 Effluent Gross	REQUIREMENT			nica	erfer 2 - Landau - Landau	EGDAVAVG.	C PONDAN	KS E	192			CHA
Copper, total as Cu)	SAMPLE MEASUREMENT	100000	200240	*****	*****						500	
01042 1 0 Effluent Gross	Anterviele flexic					A COPA VE	DULYAN	X			(Paly)	(CEAS)
ron, total as Fe)	SAMPLE MEASUREMENT	******	******	*****	*****	*****					500	
01045 1 0 Effluent Gross	REDUREMENTS			atat)		rmn	DAILYM	2	, The second		Oct.	(C) (E)
ead, total as Pb)	SAMPLE MEASUREMENT	******	*****	*****	*****						500	
01051 1 0 Effluent Gross	HEOURENES TO		No.			SODAVAVG 4	DALTEM		TF/15	20.00	P. P.	CR/B
lickel, total as Ni)	SAMPLE MEASUREMENT	*****	******	*****	*****						500	
01067 1 0 Effluent Gross	HEOUIRENEVER					14/30DA AVG. S	NOALS AV		Tele			0
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision i	n accordance with a s	ystem designed to assu	re that qualified	personnel	0.10		TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system information submitted is.	, or those persons dire	ectly responsible for gatt	nering the inform	nation, the	SIGNATURE OF RI	NCIPLE	815	406-3700		02/25/2013	
Plant Manager	aware that there are sign fine and imprisionment to	ificant penalties for su				EXECUTIVE OFFICE		AREA	NUMBER		MM/DD/YYY	Y
COMMENTS AND EXPLANAT	TON OF ANY VIOLA	TIONS (Reference	ail attachments h	ere)		AUTHORIZED AC	SERI I	CODE			****	
. There was no discharge of . Flow existed through this ou	processed steam gen	erator chemical cl		•	onth.							
EPA Form 3320-1 (Rev 01/	MC) Omideus aditions			.					······		1/6/2012	PAGE

DISCHARGE MONITORING REPORT (DMR) DMR Mailing ZIP CODE: 61010 PERMITTEE NAME/ADDRESS MAJOR IL0048313 C01-0 NAME Exelon Generation Co., LLC (SUBR 01) CS PERMIT NUMBER DISCHARGE NUMBER ADDRESS 4300 Winfield Road Warrenville, IL 60555-5701 WWTP (FORMER 001C) MONITORING PERIOD External Outfall FACILITY Byron Nuclear Power Station MM/DD/YYYY MM/DD/YYYY LOCATION 4450 North German Church Road 01/01/2013 01/31/2013 *** NO DISCHARGE FROM то Byron, IL 61010 ATTN: Zoe Cox/ENV SPEC

PARAMETER		QUAI	NTITY OR LOADING	G		QUANTITY OR CO	NO.	FREQUENCY	SAMPLE		
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	ANALYSIS	TYPE
Zinc, total (as Zn) c	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01092 1 0 Effluent Gross	RECOUREMENTS			*****		30D AVG	DAILY			a voedy	elvi e
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.024	0.042	3	*****	******	*****	*****	0	01/01	CN
50050 1 0 Effluent Gross	PEQUIREMENT		SALW.	. With the			172				Solding 6
	SAMPLE MEASUREMENT										
	REQUIREMENT			7							
•	SAMPLE MEASUREMENT										
	HEQUIREMENTS			Jan 1			200		11/2		
	SAMPLE MEASUREMENT										
	PEOUBENENC										
	SAMPLE MEASUREMENT										
	REQUIREMENTS				2.7.4.6						
	SAMPLE MEASUREMENT										
	LAEGUIREMENTE										
	I certify under penalty of direction or supervision b	n accordance with a s	ystem designed to assu	re that qualified	personnel	<i>a</i> 'a.	, [TELEPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system information submitted is,	, or those persons din	actly responsible for gat	hering the inform	nation, the	SIGNATURE OF PE	RINCIPLE	815 406-3700		02/25/2013	
	aware that there are sign fine and imprisionment to	dificant penalties for su				EXECUTIVE OFFI AUTHORIZED A	j.	AREA NUMBER		MM/DD/YYY	Y
COMMENTS AND EXPLANAT	ION OF ANY VIOLA	TIONS (Reference	e all attachments h	ere)		.,		<u> </u>			
EPA Fem 2220 4 /Fem 24	OS) Decuious adiliana									1/6/2012	71057
EPA Form 3320-1 (Rev 01/	vo) revious edibons	may be used.								1/0/2012	PAGE 2

DISCHARGE MONITORING REPORT (DMR)

то

D01-0

01/31/2013

PERMITTEE NAME/ADDRESS

Exelon Generation Co., LLC NAME ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road PERMIT NUMBER DISCHARGE NUMBER **MONITORING PERIOD** MM/DD/YYYY MM/DD/YYYY

IL0048313

01/01/2013

FROM

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01) CS

RADWASTE TREATMENT (FORMER 001D)

External Outfail

*** NO DISCHARGE

PARAMETER		QUAL	NTTTY OR LOADING			QUANTITY OR CON	NO. FREQUENCY	SAMPLE			
·		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX ANALYSIS		TYPE
ids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.6	0.8	19	0	02/30	СР
530 1 0 uent Gross	PERMITANT REQUIREMENTS			- (Q)		and Avg	DAILY WD			nacata Men	reomre
w, in conduit or thru atment plant	SAMPLE MEASUREMENT	0.022	0.022	3	*****	******	*****	*****	0	01/01	CN
050 1 0 5 uent Gross	PENUM REOVIRENENT	ERGEMONE MOODAYAVG	E DAILY MOLES	Wat no	coerr	a province	grand'			; DOIN	easing.
	SAMPLE MEASUREMENT										
	SHEOURIEMENTS	. 18 24.12					Federal				
	SAMPLE MEASUREMENT										
- 	PERMIT				د متا <i>ند</i> د						
	SAMPLE MEASUREMENT		and the second second				Tangi so				
	REQUIREMENTS			a Y will Y					1		100
	SAMPLE MEASUREMENT					Section of the section of					
	PREQUIREMENTS										30.2
	SAMPLE MEASUREMENT										
	AREQUIREMENTS									Ac. Ed.	e
NAME/TITLE INCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision is	n accordance with a s	ystem designed to assu	ire that qualified	personnel			TELEPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system information submitted is,	, or those persons dire	ectly responsible for gati	hering the inform	nation, the	GNATURE OF PRI		406-3700		02/25/2013)
Plant Manager	aware that there are sign fine and imprisionment for	ificant penalties for su				EXECUTIVE OFFIC		REA NUMBER		MM/DD/YYY	Υ
MMENTS AND EXPLANA	TION OF ANY VIOLA	TIONS (Reference	ali attachmenta h	nere)		AU INONIZED AU	ENI C	ODE	ــــــــــــــــــــــــــــــــــــــ	· · · · · · · · · · · · · · · · · · ·	
Flow existed through this or				-	•						

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC **ADDRESS** 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	
PERMIT NUMBER	

FROM

E01-0 DISCHARGE NUMBER

MONITO	RING	PERIOD
MM/DD/YYYY		MM/DD/YYYY
01/01/2013	то	01/31/2013

DMR Mailing ZIP CODE:

MAJOR

(SUBR 01)

CS

STORMWATER (FORMER 001E)

External Outfall

*** NO DISCHARGE X

61010

PARAMETER		QUA	NTITY OR LOADIN	G		QUANTITY OR CONCENTRATION					FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALU	JE	UNITS	EX	OF ANALYSIS	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****							
00530 1 0 Effluent Gross	REQUIREMENT					*CODAVAVO	BOARS	VIX-			Weiv	SOLAR
Solids, total suspended	SAMPLE MEASUREMENT	******	*****	*****	*****							
00530 8 0 Other Treatment, Process Complete	raedymaetam Gredymaetam	qua		arab Araba Arab	entical ME a Secolar	CID. LYC	o Ev	XX	ne).		W. III	O.V.
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****							
01032 1 0 Effluent Gross	REQUIREMENT.	1. 1900 - A	17.			4 EDDAVAVG	DAG	VX.				GPUB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	******	*****	*****	******							
01034 1 0 Effluent Gross	REQUIREMENT.		topo 4.6.06.5		e en	-supaye		MX make	101		(P10)	Gián
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	*****	*****	*****							
01042 1 0 Effluent Gross	AREOVIREMENT.				cinc tal	. eoo√Ayo	J. JOANS	X	軸線		uD/	GEVER.
ron, total (as Fe)	SAMPLE MEASUREMENT	*****	*****	******	*****	*****						
01045 1 0 Effluent Gross	PERMITANTAL REGULATION OF THE COURT OF THE C			9101			DAILY	W				GRAB
Lead, total (as Pb)	SAMPLE MEASUREMENT	*****	*****	*****	*****							
01051 1 0 Effluent Gross	SHEOUREMENTS	in temps	30 tr			SODA AVG	S CONTR	VXX.	Sign of		PFILE	E CEASE
NAME/TITLE PRINCIPAL EXECUTIVE OFFICEI	I certify under penalty of direction or supervision i	n accordance with a s	ystem designed to assu	re that qualified	personnel	o · ·		TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and eval who manage the system information submitted is,	, or those persons dir	ectly responsible for gat	hering the inform	nation, the	SIGNATURE OF		815	406-3700		02/25/2013)
Plant Manager	aware that there are sign	nificant penalties for s				EXECUTIVE OFF	ICER OR	AREA	NUMBER		MW/DD/YYY	~
TYPED OR PRINTED	fine and imprisionment to	or knowing violations.				AUTHORIZED	AGENT	CODE	HUMBER		min/OU/TT	•

- 1. There was no discharge of processed steam generator chemical cleaning wastewater during the month.
- 2. Flow existed through this outfall 0 of 31 days during the month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/8/2012

DISCHARGE MONITORING REPORT (DMR)

PERMIT	TEE	MAR	AE/A	DDE	355
LEDMA	166	13/40	n - r	wu	1233

NAME

Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313 PERMIT NUMBER

FROM

E01-0 DISCHARGE NUMBER

MONITORING PERIOD MM/DD/YYYY MM/DD/YYYY 01/01/2013 01/31/2013 TO

DMR Mailing ZIP CODE:

MAJOR

(SUBR 01) CS

STORMWATER (FORMER 001E)

External Outfall

*** NO DISCHARGE X

61010

PARAMETER		QUAI	NTTTY OR LOADING	G		QUANTITY OR CON	CENTRATIO	N		NO.	FREQUENCY	SAMPLI
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALU	E	UNITS	EX	ANALYSIS	TYPE
lickel, total as Ni)	SAMPLE MEASUREMENT	*****	*****	*****	*****							
1067 1 0 ffluent Gross	REQUIREMENTS		in the second	trees to	, TEO	SODA AVG	OALYA		ingle.		(0 Φ).	. Gr
nc, total s Zn)	SAMPLE MEASUREMENT	*****	******	*****	******			,				
1092 1 0 ffluent Gross	ARE OREMENT		Town	cwo;		L' SODAYAVG	DAILY	D.C.	TOTAL P		(PII)	ent
low, in conduit or thru eatment plant	SAMPLE MEASUREMENT				*****	*****	*****		*****			
luent Gross 💢	PERMITS OF THE PROPERTY OF THE	JEODA/AVC	DALYYY.	MO TO					COOP.		i e je po po po m	Sec. 10
	SAMPLE MEASUREMENT		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1									
<u> </u>	REQUIREMENTS SAMPLE MEASUREMENT						i est					1
	PERMIT STEEDUREMENTS SAMPLE	d. 16.						345 4				
	MEASUREMENT	x:02 * 5.34 *						ZII.end		Qa IS		
	REQUIREMENTA SAMPLE MEASUREMENT				the Salar							
	PERMIT OF THE PROPERTY OF THE											
NAME/TITLE RINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision i							TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system information submitted is,	, or those persons din	ectly responsible for gat	hering the infor	nation, the	GRATURE OF PRI	- NCIPLE	815	406-3700		02/25/2013	
Plant Manager	aware that there are sign fine and imprisionment to	nificant penalties for su				EXECUTIVE OFFICE AUTHORIZED AC		AREA CODE	NUMBER		MM/DD/YYY	Y
OMMENTS AND EXPLANAT		•		ere)					·········			
No Closed Cooling System I		•		: :							3	
No Service Water System d No Turbine Building Fire and			_		ned this month						_	
EPA Form 3320-1 (Rev 01/			nouning wastewater	**************************************	goo and moral.						1/8/2012	PAG

001-0

PERMITTEE	NAME/ADDRESS
NAME	Exelon Generation Co., LLC
ADDRESS	4300 Winfield Road
	Warrenville, IL 60555-5701

FACILITY	Byron Nuclear Power Station
LOCATION	4450 North German Church Road
	Rumn II 61010

	PEHMII NUMBEH		DISCHANGE NUMBER	
	MO	NITORING P	ERIOD	
	MM/DD/YYYY		MM/DD/YYYY	
FROM	01/01/2013	то	01/31/2013	

IL0048313

DMR Mailing ZIP CODE:

61010

MAJOR (SUBR 01)

CS

COOLING SYSTEM BLOWDOWN

External Outfall

*** NO DISCHARGE ...

ATTN: Zoe Cox/ENV SPEC FREQUENCY QUANTITY OR LOADING QUANTITY OR CONCENTRATION SAMPI F NO. **PARAMETER** OF EX TYPE **VALUE** VALUE VALUE UNITS VALUE VALUE UNITS **ANALYSIS** Temperature, water deg. SAMPLE 83.1 15 0 01/01 CN Fahrenheit MEASUREMENT RECUIREMENTS 00011 1 0 Effluent Gross SAMPLE вH 8.84 0 01/07 GR MEASUREMENT 00400 1 0 PERLIT. MINIMUM - MONINER Effluent Gross REQUIREMENTS SAMPLE Solids, total suspended ***** ***** ***** 3.9 3.9 19 01/30 GR 0 **MEASUREMENT** 00530 1 0 ALEGNIE VIEW Effluent Gross SAMPLE Oil & Grease <1.9 3.5 19 0 01/07 GR MEASUREMENT 00556 1 0 WELLIN Effluent Gross REQUIREMENT SAMPLE Chromium, total (as Cr) < 0.0021 19 01/07 GR MEASUREMENT 01034 1 0 · SEEDING Effluent Gross SECUIREMENT SAMPLE 500 Copper, total (as C&) MEASUREMENT REOVIREMENTS 01042 1 0 Effluent Gross SAMPLE 0.004 0.008 01/07 Zinc, total (as Zn) 19 GR MEASUREMENT 01092 1 0 PERIODE AND A STATE OF THE PROPERTY OF THE PRO 30DAAVG BEDAILVAX Effluent Gross NAME/TITLE certify under penalty of law that this document and all attachments were prepared under my TELEPHONE DATE PRINCIPAL EXECUTIVE OFFICER direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evalute the information submitted. Based on my inquiry of the person or persons 406-3700 815 Benjamin P. Youman who manage the system, or those persons directly responsible for gathering the information, the 02/25/2013 SIGNATURE OF PRINCIPLE information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of EXECUTIVE OFFICER OR Plant Manager AREA NUMBER MM/DDAYYYY fine and imprisionment for knowing violations. TYPED OR PRINTED **AUTHORIZED AGENT** CODE COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) Monitoring data for outfall 001-0 is included on attachment. EPA Form 3320-1 (Rev 01/06) Previous editions may be used. 1/6/2012 PAGE 1

				NATIONAL POLI	LUTANT DI	SCHARGE ELIM	INATION SYST	EM (NPDES)				
				DIS	CHARGE	MONITORING R	EPORT (DMR)		DMR Mailli	ng ZIP C	ODE:	61010
	NAME/ADDRESS			11.00	48313		001-0		MAJOR			
NAME ADDRESS	Exelon Generation 4300 Winfield Ro	•			NUMBER	─ ┤	DISCHARGE NUI	MRER	(SUBR 01)		CS	
MDDNESS	Warrenville, IL 60			FEDIMIT	HOMBEN		DISCHARGE NO	MOEN	COOLING	SYSTER	A BLOWDOWN	
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			M	ONITORING PERIO	OD		External O			
FACILITY	Byron Nuclear Po	ower Station		MM/DI	D/YYYY		MM/DD/YYY	Y				_
LOCATION	4450 North Germ	an Church Road	FROM	01/01	/2013	то	01/31/2013		• •	* NO DISCHARGE] •••
A7731. 7 (Byron, IL 61010											
ATTN: ZOB	Cox/ENV SPEC		T QUAL	NTITY OR LOADIN	<u>. </u>	<u> </u>	UANTITY OR CON	CENTRATION			FREQUENCY	
PAF	RAMETER	><	VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	NO. EX	OF ANALYSIS	SAMPL TYPE
Oxidants, tot	lal residual	SAMPLE MEASUREMENT	******	*****	*****	*****	******	0.04	19	0	01/07	GR
34044 1 0 Effluent Gros	ss	THE PERMIT			W			PALYAN			. Whaley	, GFA
1 ''	tants total effluent	SAMPLE MEASUREMENT	*****			*****	*****				500	
50008 1 0 Effluent Gros		PERUT REQUIREMENT	eme)	GENTLON DATE (IVE	#16	Arm,	in the	DAILY			Will	iel vi
Flow, in cont treatment pla		SAMPLE MEASUREMENT	20.27	25.65	3	*****	*****	*****	*****	0	01/01	CN
50050 1 0 Effluent Gros	ss	PENIO Historika 1940	Sole Ave	DAILY MOC	t 0,000	500	; (1),∓1 • 2				201V	Egyjj
Chlorine, tota	al residual	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****				500	
50060 1 0 Effluent Gros	ss	SCAPEDATO GLEGUIREMENTO		11 12 11 11 11 11 11 11 11 11 11 11 11 1	7 T.			00AL-V 100	, jū/j.		avery.	. C. V.
Hydrazine ,		SAMPLE MEASUREMENT	*****	*****	*****	******					500	
81313 1 E	SS	REQUIREMENTS		÷-0°=	e proces		SODA AVGIS	DAILYMX	2 1025		Colectiang in part	
.:		SAMPLE MEASUREMENT										
		FEQUIREMENT										

NAME/TITLE I certify under penalty of law that this document and all attachments were prepared under my TELEPHONE DATE PRINCIPAL EXECUTIVE OFFICER direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evalute the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the 815 406-3700 02/25/2013 Benjamin P. Youman SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR information submitted is, to the best of my knowledge and betief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of Plant Manager NUMBER MM/DD/YYYY TYPED OR PRIXIED **AUTHORIZED AGENT** fine and imprisionment for knowing violations. COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

1/6/2012

PAGE 2

SAMPLE MEASUREMENT

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	002-0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD MM/DD/YYYY MM/DD/YYYY 01/01/2013 01/31/2013 FROM то

DMR Mailing ZIP CODE:

MAJOR

(SUBR 01) CS

STORMWATER RUNOFF BASIN

External Outfall

*** NO DISCHARGE X

1/6/2012

PAGE 1

61010

PARAMETER		QUAN	TITY OR LOADING	G		QUANTITY OR CON	CENTRATI	DN		NO.	FREQUENCY OF	SAMPLE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALU	JE	UNITS	EX	ANALYSIS	TYPE
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	******	*****	***							
0530 1 0 ffluent Gross	REQUIREMENTS		2.5			ECONAVO.	100 MEY	y).∈			wedgy.	YORAN
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****							
0530 8 0 Other Treatment, Process Complete	cerrio gregoriedes	1147			THE STATE OF THE S	* godrýve	6VI_0	Mo.	mg.		.M.H.	@FRATA
thromium, hexavalent as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****							
1032 1 0 Iffluent Gross	PETUR RECUREMENT	En son Au		ctm	er an ar ar a	0500AVAVG	U.Q Valley		TOL.		(Dal)	974
Chromium, total	SAMPLE MEASUREMENT	*****	*****	*****	*****						No. A. Administration of the Control	
1034 1 0 ffluent Gross	PER ATT			7 dp		SODAYAVGES	DAILY	XXX	T.A.		(Daly	(FEE
copper, total as Cu) 11042 1 0	SAMPLE MEASUREMENT	*****		•••••	*****	188	Ü					
iffluent Gross	REQUIREMENTS			inter s	ničeni Liti sakati	EODA/VOA	DAILY.		in the		(Eally	CIFOD.
as Fe) 1045 1 0	MEASUREMENT	*****		*****			20.10	1 0. 35				
iffluent Gross ead, total	REQUIREMENTA				TOTAL STATE		DAILY	VO.			Dily	CEAB
as Pb)	MEASUREMENT	******				CEL V						0.65 45.2
ffluent Gross	RREQUIREMENTS	ig in				30DAVAVG	STORIES.	MX			0317	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision to	n accordance with a sy	stem designed to assu	re that qualified	personnel	0.4		TEI	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system, information submitted is,	, or those persons dire	city responsible for gati	hering the inform	nation, the	SIGNATURE OF PRI		815	406-3700		02/25/2013	J
Plant Manager	aware that there are sign fine and imprisionment fo		bmitting false information	on, including the				AREA	NUMBER	MM/DD/YYYY		
OMMENTS AND EXPLANAT	ION OF ANY VIOLAT	NONS (Reference	all attachments h	iere) '	· · · · · · · · · · · · · · · · · · ·				\			
. No Turbine Building Fire and	Oil Sump or Generic	Non-Chemical M	etal Cleaning Wast	ewater was d	lischarged this m	onth.						

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME

Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, II 60555-5701

FACILITY

Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313 PERMIT NUMBER

FROM

002-0 DISCHARGE NUMBER

MONITORING PERIOD MM/DD/YYYY MM/DD/YYYY 01/01/2013 01/31/2013 тоГ

DMR Mailing ZIP CODE:

MAJOR (SUBR 01)

CS

STORMWATER RUNOFF BASIN

External Outfall

*** NO DISCHARGE X

61010

PARAMETER		QUAN	TITY OR LOADING	3	•	QUANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	ANALYSIS	TYPE
lickel, total as Ni)	SAMPLE MEASUREMENT	*****	******	*****	*****						
1067 1 0 ffluent Gross	REQUIREMENTS					- SODA AVG	TDAILYANX	itig		. Other	er t
nc, total s Zn)	SAMPLE MEASUREMENT	*****	*****	*****							
1092 1 0 ffluent Gross	THE CURTE VIEW					CODANGE	O TO A GO AND	## ## TOPA		PP.	(GRAD
il and Grease	SAMPLE MEASUREMENT	*****	*****	*****	****						
3582 1 0 ffluent Gross	CHECURE INTE			JUIN See See		SOF VAVG	ONEWAX	10.7 <u>4</u>		Winds a Olschurgung	e pro
low, in conduit or thru eatment plant	SAMPLE MEASUREMENT				000774	*****		*****			
6050 1 0 ffluent Gross	SINEOUINEVENIE	SODA AVG	eq i vq i vq	1990							EŠŢĪMA
	SAMPLE MEASUREMENT										
	REQUIREMENTS										
	SAMPLE MEASUREMENT									_ 3	
	REQUIREMENTA										
	SAMPLE MEASUREMENT										
- 14	PERMIT										
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of i direction or supervision is	n accordance with a sy	ystem designed to assu	re that qualified	personnel	0.00.		TELEPHONE		DATE	
Benjamin P. Youman	properly gather and evaluate who manage the system, information submitted is,	or those persons dire	ectly responsible for gati	nering the inform	nation, the	IGNATURE OF PRI		15 406-3700		02/25/2013	
Plant Manager	aware that there are sign	ificant penalties for su				EXECUTIVE OFFIC	ER OR AF	NUMBER		MM/DD/YYY	
TYPED OR PRINTED	fine and imprisionment to					AUTHORIZED AG	ENT CO	DE			<u> </u>
OMMENTS AND EXPLANAT This discharge point was no		NONS (Reference	all attachments h	ere)							
There was no discharge of p		erator chemical cl	eaning wastewater	during the mo	onth.						



ATTACHMENT TO COOLING SYSTEM BLOWDOWN (Outfall 001-0) DISCHARGE MONITORING REPORT

For Exelon Byron Station Permit IL0048313 January 2013 Page 1 of 3

MONITORING DATA:

DATE	CWBD Temperature	CWBD Flow	Rock River
DAIL	deg F	mgd	cfs
01/01/2013	67.9	19.52	3,750
01/02/2013	68.9	21.18	3,370
01/03/2013	71.8	17.65	4,070
01/04/2013	74.7	20.20	3,750
01/05/2013	74.7	25.48	3,910
01/06/2013	73.3	20.23	3,910
01/07/2013	74.9	15.29	3,420
01/08/2013	75.8	20.81	3,620
01/09/2013	75.8	20.44	3,450
01/10/2013	74.7	19.42	3,070
01/11/2013	81.5	20.22	3,300
01/12/2013	81.5	24.77	2,930
01/13/2013	68.8	20.69	3,100
01/14/2013	67.5	15.92	3,510
01/15/2013	70.6	22.20	4,540
01/16/2013	76.5	17.72	5,420
01/17/2013	76.5	20.55	5,680
01/18/2013	76.0	19.91	5,510
01/19/2013	77.2	25.65	3,940
01/20/2013	73.3	19.96	5,060
01/21/2013	67.3	13.94	5,850
01/22/2013	62.0	24.35	4,780
01/23/2013	64.6	20.06	5,040
01/24/2013	66.0	18.68	4,750
01/25/2013	72.0	19.19	4,580
01/26/2013	72.0	24.96	4,230
01/27/2013	74.7	20.43	4,000
01/28/2013	76.7	17.04	4,060
01/29/2013	83.1	18.76	4,340
01/30/2013	83.1	20.20	6,290
01/31/2013	71.6	22.90	11,300

ATTACHMENT TO COOLING SYSTEM BLOWDOWN (Outfail 001-0) DISCHARGE MONITORING REPORT

For Exelon Byron Station Permit IL0048313 January 2013 Page 2 of 3

HYDRAZINE MONITORING:

There were no steam generator chemical cleaning solutions (or associated rinses) containing hydrazine discharged to the Cooling System Blowdown during the month of January 2013.

TOTAL QUANTITY DISCHARGED: N/A

TOTAL DURATION OF DISCHARGE: N/A

COMMENTS:

- 1. Sodium Hypochlorite and Bromine compounds were used this month.
- 2. There was no discharge of steam generator chemical cleaning wastewater containing hydrazine in this month.
- 3. Flow existed through this outfall 31 of 31 days.
- 4. Per Special Condition 24 the influent from the Rock River and effluent from Outfall 001-0 was monitored for Total Suspended Solids (TSS) this month. The Rock River TSS value was 4.3 mg/L on 01/14/2013. The CWBD TSS value was 3.9 mg/L on 01/14/2013.
- 5. Rock River flow for January 2013 was >2400 cfs therefore daily temperature calculations were not required this month. (Special Condition 12).
- 6. There was no discharge of the 126 Priority Pollutants from cooling tower maintenance chemicals in January 2013. (Special Condition 15).



Exelon Generation Company, LLC Byron Station 4450 North German Church Road Byron, IL 61010-9794 www.exeloncorp.com

Nuclear

March 26, 2013

LTR: BYRON 2013-0042

File: 2.09.0411

1.10.0101

Illinois Environmental Protection Agency BOW CAS #19 1021 North Grand Avenue East P.O. Box 19276 Springfield, IL 62794-9276

Subject:

Byron Station Monthly Discharge Monitoring Report

In accordance with National Pollutant Discharge Elimination System (NPDES) Permit Number IL0048313, issued January 24, 2011, we are submitting the Discharge Monitoring Report for Byron Station, Units 1 and 2. This report covers the period of February 1, 2013 through February 28, 2013.

If there are any questions regarding this report, please contact Ms. Zoe Cox, Environmental/Radwaste Supervisor, at (815) 406-3035.

Respectfully,

Benjamin P. Youman

Plant Manager

Byron Nuclear Generating Station

BPY/ZC/eh

Attachments

PERMITTEE NAME/ADDRESS

NAME Exelon C

Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station

LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313 A01-0
PERMIT NUMBER DISCHARGE NUMBER

. MONITORING PERIOD												
	MM/DD/YYYY		MM/DD/YYYY									
FROM	02/01/2013	TO	02/28/2013									

DMR Malling ZIP CODE:

61010

MAJOR

(SUBR 01) CS

DEMINERALIZER REGENERATE WASTE (001A)

External Outfall

*** NO DISCHARGE ...

PARAMETER		QUA	NTTTY OR LOADIN	G		DUANTITY OR CON	CENTRATIO	N		NO.	FREQUENCY	SAMPL
PARABETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE		UNITS	EX	of Analysis	TYPE
olids, Total Suspended	SAMPLE MEASUREMENT	*****	******	*****	******	2.2	2.3		19	0	01/30	08
0530 1 0 ffluent Gross	REPUBLICATION				Cont.	ODA/AVG	DAILY M	X	a more	1 11	Ma Monthly	COMP
hromium, hexavalent is Cr)	SAMPLE MEASUREMENT	*****	****	*****	*****	Sept of the last to the second of the	20	1	Patha Indian dia kaomini		500	
1032 1 0	WAS RERMUTANA		Acceptance of the second			A CODA AVC	2-2-3		mo/Law		Ash Daily	GRAB
fluent Gross hromium, total s Cr)	REQUIREMENT SAMPLE MEASUREMENT	*****	*****	******	*****	A STATE OF THE STA	SSENTEN # 500				500	
i 034 1 0 fluent Gross	REGUIREMENT					SESODA AVG	DAIL'S M		mo/L		Cha CDaiv	GRAB
opper, total is Cu)	SAMPLE MEASUREMENT	*****	0.000	000000	*****		A STATE OF	2000			500	
1042 1 0 ffluent Gross	STATE OF THE PARTY			A	***************************************	2007 AVG	DAIL		mod		Par Par	GRAB
on, total is Fe)	SAMPLE MEASUREMENT	*****	140000	*****	*****	******	t 1-2-2-1 (111)*			213	500	
1045 1 0 fluent Gross	STATES AND THE STATES	And the state of t		. I We f	10 44		TALLY I		Amp.		10 July	GRAB
ead, Total s Pb)	SAMPLE MEASUREMENT	40000	80000	*****	*****	Ar a range la commune la	1921 - 1921 (2.47)		e e terrium a du tri e d		500	
1051 1 0 fliuent Gross	REQUIREMENTS					2 30DA AVG × 1	DAIL KM		me4.		Na Daby	GPAB
ickel, total is Ni)	SAMPLE MEASUREMENT	*****	****	*****	*****						500	
1067 1 0 ffluent Gross	AND REPUBLISHEN TO		Market St.	C. L.A.		2 30DA AVG	P DAILY M	X	L Nom		STATE OF THE STATE	GRAB
NAME/TITLE RINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision is						MACH 1 . 1 . 1 . 1 . 1 . 1 . 1	TEL	EPHONE	B-12 (1)	DATE	
Benjamin P. Youman	properly gather and evaluation manage the system information submitted is,	te the information su , or those persons din	bmitted. Based on my in actly responsible for gat	nquiry of the pe hering the infor	rson or persons mation, the	IGNATURE OF PRI	NCIPLE	815	406-3700		03/26/2013)
Plant Manager	aware that there are sign	ificant penalties for si				EXECUTIVE OFFIC		AREA	NUMBER		*****	
TYPED OR PRINTED	fine and imprisionment to	•				AUTHORIZED AC	ENT	CODE	NUMBER		MM/DD/YYY	Υ
OMMENTS AND EXPLANA There was no discharge of	processed steam gen				onth.							
Flow existed 28 of 28 days	during this month.				·.							

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

MONITORING PERIOD

TO

PERMIT NUMBER

MM/DD/YYYY

02/01/2013

FROM

DISCHARGE MONITOR	ING REPORT (DMR)
IL0048313	A01-0

DISCHARGE NUMBER

MM/DD/YYYY

02/28/2013

61010

DMR Mailing ZIP CODE:

ĊS

MAJOR

(SUBR 01)

DEMINERALIZER REGENERATE WASTE (001A) External Outfall

*** NO DISCHARGE

4300 Winfield Road Warrenville, IL 60555-5701

Exelon Generation Co., LLC

FACILITY **Byron Nuclear Power Station** LOCATION 4450 North German Church Road

Byron, IL 61010

PERMITTEE NAME/ADDRESS

NAME

ADDRESS

		QUAN	ITITY OR LOADING	3	C	UANTITY OR CON	CENTRATIO	N		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUI	E	UNITS	EX	ANALYSIS	TYPE
zinc, Total as Zn)	SAMPLE MEASUREMENT	*****	*****	*****	*****						500	
01092 1 0 Effluent Gross	SHEOURENENSK					30DA AVG	THOAILY A	AX T	tmo/Lid		AL POW IX	CORAB
Flow, in conduit or thru reatment plant	SAMPLE MEASUREMENT	0.057	0.243	3	*****	******	*****		140000	0	01/01	ES
60050 1 0 Effluent Gross	SHERWING A	Beg Mon	Fing Mon S	Moald	4	Level 1					0.00	CONTIN
	SAMPLE MEASUREMENT		many and the second second	Should feel The		The second second second		g galak ke		2000		i Davida (S)
	REQUIREMENTS											
	SAMPLE MEASUREMENT		and the second of	LY ALERO MA	Anna Shirt Ar 1883					sakerio Ali		3 (20.00 as \$ 00.00
	PERMUSAN RECUIREMENTA SAMPLE											
	MEASUREMENT		market de la				No (Section)			2000	(18 18) 	
	SAMPLE											
	MEASUREMENT				March 1							2000
	PEQUIREMENT											
	MEASUREMENT											
NAME/TITLE	I certify under penalty of							TE	EPHONE		DATE	
	direction or supervision in property gather and evaluation who manage the system.	ute the information sui	bmitted. Based on my i	nquiry of the pe	rson or persons	Smi PU		815	406-3700	<u> </u>	03/26/2013	
-	information submitted is, aware that there are sign	to the best of my kno nificant penalties for si	wiedge and belief, true,	accurate, and	complete. I am S	IGNATYRE OF PAI EXECUTIVE OFFICE		AREA	NUMBER		MM/DD/YYY	
TYPED OR PRINTED	fine and imprisionment to	····				AUTHORIZED AC	SENT	CODE				
COMMENTS AND EXPLANAT		•		•								
 Flows for February 2013 are replacement totalizers and 			que to totalizers be	ing Out of Se	irvice. The totalizer	s are an obsolete m	odel and Mol	K Crde	rs are in plac	e to tind	1	

EPA Form 3320-1 (Rev 01/06) Previous editions ma	EPA F	n 3320-1	(Rev 01/06)) Previous	editions	may be used.
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1/8/2012

61010

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC **ADDRESS**

4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY **Byron Nuclear Power Station** LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313 PERMIT NUMBER

B01-0 DISCHARGE NUMBER

MONITORING PERIOD MM/DD/YYYY MM/DD/YYYY 02/28/2013 02/01/2013 FROM TO

DMR Mailing ZIP CODE:

MAJOR (SUBR 01)

STP PLANT EFFLUENT (FORMER 001B)

External Outfall

*** NO DISCHARGE

ATTN: Zoe Cox/ENV SPEC FREQUENCY **QUANTITY OR LOADING QUANTITY OR CONCENTRATION** NO. SAMPLE **PARAMETER** OF EX TYPE VALUE LINITS VALUE VALUE VALUE UNITS VALUE **ANALYSIS** BOD, 5-Day SAMPLE 0.22 0.25 26 4.0 5.0 19 ٥ 02/30 24 (20 Deg. C) MEASUREMENT 00310 1 0 PERMIT TALL YMX Twice Ber Month REQUIREMENT Effluent Gross SAMPLE 7.36 12 ٥ 02/30 GR Ha 7.38 MEASUREMENT SU 00400 1 0 REPMIT MINIMA MAXIMUM A Samuel . Effluent Gross BEQUIREMENT SAMPLE Solids, total suspended 18 02/30 0.50 0.57 9.0 9.7 24 MEASUREMENT 10.5 K 00530 1 0 Effluent Gross Flow, in conduit or thru SAMPLE 0.006 0.008 01/01 treatment plant MEASUREMENT 50050 1 0 REBMITTAGE Reg Mon* Reg Mon A Effluent Gross REQUIREMENT SAMPLE MEASUREMENT PERMITTER AND SAMPLE MEASUREMENT RERMITATION SAMDI F MEASUREMENT NAME/TITLE I certify under penalty of law that this document and all attachments were prepared under my TELEPHONE DATE PRINCIPAL EXECUTIVE OFFICER direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evalute the information submitted. Based on my inquiry of the person or persons 406-3700 815 Benjamin P. Youman who manage the system, or those persons directly responsible for gathering the information, the 03/26/2013 OF PRINCIPLE information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of Plant Manager EXECUTIVE OFFICER OR ARE NUMBER fine and imprisionment for knowing violations. MM/DD/YYYY TYPED OR PRINTED **AUTHORIZED AGENT** COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) 1. Flow existed through this outfall 27 of 28 days during this month.



EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

IL0048313

PERMIT NUMBER

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) **DISCHARGE MONITORING REPORT (DMR)**

C01-0

DISCHARGE NUMBER

DMR Mailing ZIP CODE:

MAJOR

(SUBR 01)

61010

PERMITTEE NAME/ADDRESS

NAME

Exelon Generation Co., LLC

ADDRESS

FACILITY

4300 Winfield Road

Byron, IL 61010

Warrenville, IL 60555-5701

Byron Nuclear Power Station LOCATION 4450 North German Church Road

MONITORING PERIOD MM/DD/YYYY MM/DD/YYYY 02/28/2013 02/01/2013 то FROM

WWTP (FORMER 001C)

External Outfall

... NO DISCHARGE

CS

DADAMETER		QUA	NTITY OR LOADING	G		QUANTITY OR CON	CENTRATIO	N		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALU	U	NITS	EX	ANALYSIS	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	8.2	10.6		19	0	02/30	24
00530 1 0 Effluent Gross	CERTIFIED IN		477	E TANK		15/1/4/6	OAILYA		noite		Dwice Bea Mouth	COMP24
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****						500	
01032 1 0 Effluent Gross	COMPENSIONS OF THE PERSON OF T		WE-145-1-	A. Care	· · · · · · · · · · · · · · · · · · ·	2017/2006	777				te air.	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****						500	
01034 1 0 Effluent Gross	PERMIT	A. A. A.				envyve-	o de				Dally.	GETAR
Copper, total (as Cu)	SAMPLE MEASUREMENT	******	*****	*****	*****						500	
01042 1 0 Effluent Gross	The state of the s					A SODA AVG	C DAL Y				oaly e	GRAB
iron, total (as Fe)	SAMPLE MEASUREMENT	*****	*****	*****	******	*****					500	
01045 1 0 Effluent Gross	BEEUGENEN						DATE		ng(Design Control	GRAB
Lead, total (as Pb)	SAMPLE MEASUREMENT	*****	400400	*****	*****						500 3	
01051 1 0 Effluent Gross	SEED THE PARTY OF SERVICES					707/AVG	DY SY		no.		ī paiv	GRAB
Nickel, total (as Ni)	SAMPLE MEASUREMENT	*****	*****	*****	*****						500	
01067 1 0 Effluent Gross	STECHINE MENTS					N 30DA AVGA	DAIN	X I	100		10.0	ORAB.
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision i					· ·		TELEP	IONE		DATE	
Benjamin P. Youman	properly gather and eval who manage the system information submitted is,	, or those persons din	ectly responsible for gat	hering the infor	nation, the	SIGNATURE OF PRI	MCIPLE	815 40	6-3700		03/26/2013)
Plant Manager	aware that there are sign fine and imprisionment to	nificant penalties for s				EXECUTIVE OFFICE	ER OR	AREA NU	MBER		MM/DD/YYY	Υ
COMMENTS AND EXPLANA	TON OF ANY VIOLA	TIONS (Deference	a all attachments t			AU INUNIZED AL	3ER I	CODE		L		

- 1. There was no discharge of processed steam generator chemical cleaning wastewater during this month.
- 2. Flow existed through this outfall 16 of 28 days during the month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used. 1/6/2012 PAGE 1

61010

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

ADDRESS

NAME Exelon Generation Co., LLC

> 4300 Winfield Road Warrenville, IL 60555-5701

FACILITY **Byron Nuclear Power Station** LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313 PERMIT NUMBER

FROM

C01-0 DISCHARGE NUMBER

MONITORING PERIOD MM/DD/YYYY MM/DD/YYYY 02/28/2013 02/01/2013 TO

DMR Mailing ZIP CODE:

MAJOR (SUBR 01)

CS

WWTP (FORMER 001C)

External Outfall

*** NO DISCHARGE

Zinc, total (se 2r) 201092 10 Effluent Gross Flow, in conduit or first United Headurement Part South Service Headurement Part Headurement Headurement Headurement Part Headurement Headurement Headurement Headurement Part Headurement Headuremen	PARAMETER		QUAI	NTITY OR LOADING	G		QU	ANTITY OR CON	CENTRATIC	N		NO.	FREQUENCY	SAMPLE
MEASUREMENT SOURCE TO SAMPLE MEASUREMENT SECURITY PARAMETER		VALUE	VALUE	STINU	VALUE	\perp	VALUE	VALU	E	UNITS	EX		TYPE	
PRINCIPAL EXECUTIVE OFFICER Benjamin P. Youman Plant Manager PARCE PLANT PLANT PLANT PRINCIPLE PRINCIPAL EXECUTIVE OFFICER OR Plant Manager Plant Manager PRINCIPAL EXECUTIVE OFFICER OR Plant Manager Plant Manager PRINCIPAL EXECUTIVE OFFICER OR Plant Manager Plant				*****	*****	*****							500	
Figure 1 on the property of the that the document and all attachments were prepared under my detection or supports of the what this document and all attachments were prepared under my detection or supports on accordance in accordance in a support or the companies or the compani	01092 1 0	THEOLOGICAL STREET			*****	7		OD AVG	D/NEY	N.	mert		011	e GRADA
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MEASUREMENT SAMPLE SAM		STEELNING VENUE												
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MEASUREMENT BEGUIRER P. BERNIT BERNIT BECUIRER P. MEASUREMENT BECUIRER P. MEASUREMENT BECUIRER P. BE		SECURE LEVIE					*					200		
SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SEGUIREMENT		MEASUREMENT												
MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT Certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of light and more properly gather and evaluate the information, including the possibility of light and more properly gather and evaluate the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of light and more properly gather and evaluate the information including the possibility of light and more properly gather and evaluate the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of light gather properly gather and evaluate the information including the possibility of light gather properly gather and evaluate the information in accordance with a system of submitting false information, including the possibility of light gather properly gather properly gather properly gather properly gather and evaluate the information in accordance with a system designed to assure that qualified personnel to the person or persons the qualified personnel to the person or persons the qualified personnel to the person or persons that qualified personnel to the person or persons the qualified personnel to the person or persons the qualified personnel to the person or persons the person or pe		BEQUIREMENT												
REQUIREMENT SAMPLE MEASUREMENT REQUIREMENT	MEASUREMENT													
MEASUREMENT BEQUIREMENT I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evalute the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of the person or persons. Plant Manager Plant Manager MEASUREMENT TELEPHONE DATE SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AREA NUMBER MM/DD/YYYY		REQUIREMENT												7
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Benjamin P. Youman Plant Manager Plant Manager Benjamin P. Youman Plant manager Plant Manager Benjamin P. Youman Plant manager Plant manager Benjamin P. Youman Benjamin P. Youman Who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibity of the person or persons Signature of PRINCIPLE EXECUTIVE OFFICER OR BIS 406-3700 O3/26/2013 O3/26/2013		MEASUREMENT												
PRINCIPAL EXECUTIVE OFFICER direction or supervision in accordance with a system designed to assure that the designed to assure that qualified personnel direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of the person or persons. Plant Manager Plant Manager Fig. 406-3700 O3/26/2013 O3/26/2013 O3/26/2019 EXECUTIVE OFFICER OR AREA NUMBER MM/DD/YYYY														
Benjamin P. Youman who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fire and imprisonment for knowledge into submitting false information, including the possibility of fire and imprisonment for knowledge into submitting false information, including the possibility of fire and imprisonment for knowledge into submitting false information, including the possibility of fire and imprisonment for knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fire and imprisonment for knowledge and belief, true, accurate, and complete. I am	PRINCIPAL EXECUTIVE OFFICER	direction or supervision is	n accordance with a s	ystem designed to assu	re that qualified	personnel				TEL	EPHONE		DATE	
Plant Manager aware that there are significant penalties for submitting false information, including the possibility of EXECUTIVE OFFICER OR AREA NUMBER MM/DD/YYYY	Benjamin P. Youman	who manage the system	, or those persons din	ectly responsible for gat	hering the infor	nation, the	SIG	NATURE OF PRI	NCIPLE	815	406-3700		03/26/201	3
TYPED OR PRINTED AUTHORIZED AGENT CODE	Plant Manager	aware that there are sign	nificant penalties for su				Đ	ECUTIVE OFFIC	ER OR		NUMBER		MM/DD/YY	~
COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)	14567 ON MONIED	·		11 -141515			/	AUTHORIZED AG	ENT	CODE		<u> </u>		· ·
	EPA Form 3320-1 (Rev 01/0	06) Previous editions	may be used.										1/6/2012	PAGE

PERMITTEE	NAME/ADDRESS
-----------	--------------

NAME ADDRESS

FACILITY

Exelon Generation Co., LLC 4300 Winfield Road

Warrenville, IL 60555-5701

Byron Nuclear Power Station

LOCATION 4450 North German Church Road Byron, IL 61010

IL0048313 PERMIT NUMBER

FROM

D01-0 DISCHARGE NUMBER

MONITO	RING	PERIOD
MM/DD/YYYY		MM/DD/YYYY
02/01/2013	TO	02/28/2013

DMR Mailing ZIP CODE:

MAJOR

(SUBR 01)

RADWASTE TREATMENT (FORMER 001D) External Outfail

CS

*** NO DISCHARGE

ATTN: Zoe Cox/ENV SPEC		QUAN	ITITY OR LOADING	G G	C	UANTITY OR CON	CENTRATION	1		NO.	FREQUENCY	SAMPLE
PARAMETER	\sim	VALUE	VALUE	UNITS	VALUE	VALUE	VALUE		UNITS	EX	OF ANALYSIS	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	000000	*****	*****	920900	<0.6	0.7		19	0	02/30	СР
00530 1 0 Effluent Gross	STATE DE LEVER LEVER				745	5- 20 CODAVAVC	DAIL YM		mo/L		medel Month	COMROS
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.021	0.022	3	90000	*****	*****		*****	0	01/01	: CN
50050 1 0 Effluent Gross	KRECHBEMENTS	Reg. Mon.	Reg. Mon.	Monlet							A Calvo	CONTIN
	SAMPLE MEASUREMENT											
	TOEOUISENES E											
	SAMPLE MEASUREMENT											
	BEOD REMENT											
	SAMPLE MEASUREMENT		1100					5 22 500	442-50V-50K-	F 20 14 15 15 15 15 15 15 15 15 15 15 15 15 15		
	BERMITANA BEGUIREMENTA SAMPLE											
	MEASUREMENT	h Latin Can de la Constant de la const	18 21 13 Shi Ca 27 22				and the second second	C. Sales	S. MICH. P.C.	148 (1981)		
	SAMPLE											
	MEASUREMENT	de de sincipales escadore		THE PARTY OF		Salarania Caraca Caraca (CA	rang a NE conse	Politica - S	n (12 \$ 2000 - 18)	· And Add · weath	and the second second	er Parkera (Abbit)
	WEST BEINDS						* 100		44.65			
	I certify under penalty of direction or supervision is	n accordance with a s	ystem designed to assu	re that qualified	personnel	0 12 4			EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation who manage the system information submitted is,	, or those persons dire	actly responsible for get	hering the infor	nation, the	HIGHATURE OF PRI	NCIPLE	815	406-3700		03/26/2013	ŀ
Plant Manager	aware that there are sign fine and imprisionment to	dificant penalties for su	ubmitting false information	on, including the		EXECUTIVE OFFICE AUTHORIZED AC		AREA CODE	NUMBER		MM/DD/YYY	Υ
COMMENTS AND EXPLANATI	ON OF ANY VIOLA	TIONS (Reference	a ell ettechmente h	norm)		AUTHORIZED AC	JE141	CODE		L		
Flow existed through this out		•	, an armeninelity i									
EPA Form 3320-1 (Rev 01/0	06) Previous editions	may be used.									1/6/2012	PAGE

61010

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

ITTEE		

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313 PERMIT NUMBER

FROM

E01-0 DISCHARGE NUMBER

MONIT	ORING	PERIOD
MM/DD/YYYY		MM/DD/YYYY
02/01/2013	<u>]</u> то	02/28/2013

DMR Mailing ZIP CODE:

MAJOR

(SUBR 01) CS

STORMWATER (FORMER 001E) External Outfall

*** NO DISCHARGE X **

PARAMETER		QUA	NTITY OR LOADING	3		QUANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	ANALYSIS	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	******						
00530 1 0 Effluent Gross	REQUIREMENT					15 TIS	DAIL VIX	A		Weekly	GRAB:
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****						
00530 8 0 Other Treatment, Process Complete	्र विदेशात् संदर्भात्रवाद्याः	-		Sept.	-64	STON VICE	m			Windy.	releva
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	200202	******	*****	*****	2				(k. kg) - svile - mai fra . 19	
01032 1 0 Effluent Gross	A LIBRARY OF THE PARTY OF THE P			******		ന്നു	DAILYNX			Daily at	GRAB.
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	920000	******	*****						
01034 1 0 Effluent Gross	COEQUIPE IN 18					egotywe.	T/M 2/1	Sample .		on!	CEAR
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	*****	*****	*****						
01042 1 0 Effluent Gross	REDVINENTED	1				copy vyve	TO THE TYPE		201 YE		GRAD
Iron, total (as Fe)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****				3	
01045 1 0 Effluent Gross	AN REBLIEVE						DAILYMX	Annya.			GRAB
Lead, total (as Pb)	SAMPLE MEASUREMENT	*****	******	*****	*****						
01051 1 0 Effluent Gross	A PEOUBLE MENTA					ODAYAVG	DAILY MX			analysis in	MOPAR
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision in	in accordance with a sy	ystem designed to assu	re that qualified	personnel	<u> </u>	1	ELEPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system, information submitted is,	, or those persons dire	actly responsible for gath	nering the inform	nation, the	GIGNATURE OF PRI	NCIPLE 81	5 406-3700		03/26/2013	,
Plant Manager	aware that there are sign	nificant penalties for su			anderen and a	EXECUTIVE OFFIC		EA NUMBER		**************************************	~
TYPED OR PRINTED	fine and imprisionment to	or knowing violations.]	AUTHORIZED AC	ENT CO	DE	j	MM/DD/YYY	T

- 1. There was no discharge of processed steam generator chemical cleaning wastewater during the month.
- 2. Flow existed through this outfall 0 of 28 days during the month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

DEDM	TTEE	MAL	DDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313 PERMIT NUMBER E01-0 DISCHARGE NUMBER

MONITO	RING	PERIOD
MM/DD/YYYY		MM/DD/YYYY
02/01/2013	то	02/28/2013

DMR Mailing ZIP CODE:

MAJOR (SUBR 01)

CS

STORMWATER (FORMER 001E)

External Outfall

*** NO DISCHARGE X

x]...

61010

PARAMETER		QUA	NTTTY OR LOADING	3		QUANTITY OR CON	CENTRATIO	N		NO.	FREQUENCY	SAMPLE
PAHAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALU	E	UNITS	EX	ANALYSIS	TYPE
lickel, total as Ni)	SAMPLE MEASUREMENT	*****	*****	*****	*****							
11067 1 0 Effluent Gross	AND DEBMINATE OF THE PARTY OF T					SODA AVG	DAILEY		mo/Life		0.44	GBAB
inc, total as Zn)	SAMPLE MEASUREMENT	*****	*****	*****	******							
1092 1 0 Iffluent Gross	THE CHIEF LEVEL					ooy ava	องเริ่ม				Can	GRAB
low, in conduit or thru reatment plant	SAMPLE MEASUREMENT				******	******	*****		******			
60050 1 0 Effluent Gross		Beg Mon 3000AAVG	Beg. Monust	SMga/qua							Twice Rer Month	CONTIN
	SAMPLE MEASUREMENT											
	PERMITS AND A SECOND PROPERTY.											
	SAMPLE MEASUREMENT										3	
	REPURENE											
	SAMPLE MEASUREMENT	Same representation of the con-					The street of the street	922 3 3	a fall (1992) . a c	- 5 av 1 w	18 16 12 16 17 18 18 18	
	BERMINAL RECOURSEMENTS				3 -2-2-	50/2 SP (
	SAMPLE MEASUREMENT	manusching William von Höllent Fü	Second Comments of The Comments	500120013 EST			Ar carrier stanks	88.2		90000 CT-0000	Darwing Control	32995.55.7
	RECYLEMENT IN								014		ALC:	2.30
	i certify under penalty of direction or supervision i	n accordance with a s	ystem designed to assu	re that qualified	personnel	0 12 1		TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation who manage the system information submitted is,	, or those persons dire	actly responsible for gat	hering the infor	nation, the	SIGNATURE OF PRI	NCIPLE	815	406-3700		03/26/2013	J
Plant Manager	aware that there are sign	ificant penalties for su				EXECUTIVE OFFICE	ER OR	AREA	MIMBED		***********	~
TYPED OR PRINTED	fine and impringement for transfer visitations			AUTHORIZED AGENT CODE			NUMBER	R MM/DD/YYYY		T		

- No Service Water System drain water or Fire Protection drain water was discharged this month
- 3. No Turbine Building Fire and Oil Sump or Generic Non-Chemical Cleaning wastewater was discharged this month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313 PERMIT NUMBER

001-0 DISCHARGE NUMBER

	MOI	NITORING PERIO	OD Q	
	MM/DD/YYYY		MM/DD/YYYY	
FROM	02/01/2013	то	02/28/2013	

DMR Mailing ZIP CODE:

61010

MAJOR (SUBR 01)

CS

COOLING SYSTEM BLOWDOWN

External Outfall

*** NO DISCHARGE

ATTN: Zoe Cox/ENV SPEC PARAMETER		QUAN	ITITY OR LOADING	3	Q	UANTITY OR CON	CENTRATION	1	NO.	FREQUENCY	SAMPLE
·		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	ANALYSIS	TYPE
Temperature, water deg. Fahrenheit	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	78.3	15	0	01/01	CN
00011 1 0 · Effluent Gross	REQUIREMENTA				de Europe (1)		Beg Mo	TO A STATE OF THE	5	and the same of	CONTIN
pH	SAMPLE MEASUREMENT	*****	*****	*****	8.47	*****	8.68	12	0	01/07	GR
00400 1 0 Effluent Gross	SAREBMIANS MAEOURENEM			ACT SEC.	YINIMUM	A CONTRACTOR OF THE PARTY OF TH	W.W.		27-7	No.	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	5.6	5.6	19	0	01/30	GR
	AREQUIREMENTS					Reg Mon-	Req. Mo			Monthly	GBABA
Oil & Grease	SAMPLE MEASUREMENT	*****	*****	*****	*****	<1.5	1.7	19	0	01/07	GR
00556 1 0 Effluent Gross	AREOURENEES			e Ho		30DAAVG	DAILY M	e mp/		e avience.	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	******	20000	******	*****	0.0021	19	0	01/07	GR
01034 1 0 Effluent Gross	REMINE NEWS					and the second	6 OAIBAM	a mod		ow (Vendoyer)	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****				500	
01042 1 0 Effluent Gross	REQUIREMENTS						0.071 DAILY W			No Weekly (C.)	GRAB
Zinc, total (as Zn)	SAMPLE MEASUREMENT	*****	******	*****	******	19	0	01/07	GR		
01092 1 0 Effluent Gross	A BEOTIBETENIS					210 PODAVAVO	DAIL YM	and the		West,	***GRAB*
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision is						TELEPHONE		DATE		
Benjamin P. Youman	properly gather and evaluation manage the system, information submitted is,	ite the information sub or those persons dire	omitted. Based on my in actly responsible for gatl	equiry of the per pering the Inform	son or persons	GMD CONTROL		815 406-370	0	03/26/2013	i
Plant Manager	aware that there are sign	ificant penalties for su	bmitting false information	in, including the		EXECUTIVE OFFIC		AREA NUMBE			
ITPED ON PROVIED	fine and imprisionment fo					AUTHORIZED AG	ENT (CODE		MM/DD/YYY	τ
COMMENTS AND EXPLANATI Monitoring data for outfall 00			all attachments h	ere)			·				
EPA Form 3320-1 (Rev 01/06) F	Previous editions ma	v be used								1/6/2012	PAGE

PERMITTEE NAME/ADDR	DESS	2
---------------------	------	---

NAME

Exelon Generation Co., LLC 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY LOCATION 4450 North German Church Road

ADDRESS

Byron Nuclear Power Station

Byron, IL 61010

IL0048313	
PERMIT NUMBER]

FROM

001-0 DISCHARGE NUMBER

MONITORING PERIOD MM/DD/YYYY MM/DD/YYYY 02/01/2013 02/28/2013 TO

DMR Mailing ZIP CODE:

MAJOR (SUBR 01)

CS

COOLING SYSTEM BLOWDOWN External Outfall

*** NO DISCHARGE

61010

PARAMETER		QUANTITY OR LOADING		0	QUANTITY OR CONCENTRATION					FREQUENCY	SAMPLE	
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUI	Ē	UNITS	NO. EX	OF ANALYSIS	TYPE
oridants, total residual	SAMPLE MEASUREMENT	******	*****	******	*****	*****	0.05		19	0	01/07	GR
	ECON BEADAR 等。BEBNES 等。	Bank S					DALYA	X 21	# mo/L		Weekly 1	GRAB.
	SAMPLE MEASUREMENT	*****			400000	******					500	
	REPUBLICATION OF THE PROPERTY		Req. Mon				THEO M		#mp(Weeliv	-CRAB
<u> </u>	SAMPLE MEASUREMENT	20.19	26.33	3	901177	*****	******		414111	0	01/01	CN
	SEQUIRENENTS	Beg Mon	Reg. Mon	Moald			1	35			**P*Palyx*	CONTIN
	SAMPLE MEASUREMENT	20040	010500	*****		*****					500	
	ALEGURENEYS				E AUSTRALIA		DAILY N	X S	e model		- Waeldy	GRAB
	SAMPLE MEASUREMENT	*****	****	40000	*****						500	
	EQUIREMENT					OII 30DA AVG	OALY		ang/		S Daily Whener Colscharping S	COPAR
	SAMPLE MEASUREMENT										,	
	SERMON REPORT					SOUTH BY	**					
	SAMPLE MEASUREMENT										3	
	RECUIREMENTS	MANAGE		446	TO SERVICE SERVICE	Mark to					****	
			t and all attachments w ystem designed to assu			0 0.	1	TEL	EPHONE		DATE	
Benjamin P. Youman who	o manage the system,	or those persons dire	omitted. Based on my in actly responsible for gati	hering the inform	mation, the	IGNATURE OF PRI	NCIPLE	815	406-3700		03/26/2013)
Plant Manager awa	are that there are sign	ificant penalties for su	wiedge and belief, true, ibmitting false informatic			EXECUTIVE OFFIC		AREA	NUMBER		MM/DD/YYY	Υ
I TIPED UN PROVILED fine	e and imprisionment to	r knowing violations.	e all attachments h	ere)		AUTHORIZED AC	JEN I	CODE		<u> </u>		

61010

NATIONAL	POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES
	DISCHARCE MONITORING REPORT (DMD)

•		
	DISCHARGE MONITORING REPORT (DMR)	

DEDI	ATTEE	MARKE	DESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

FACILITY **Byron Nuclear Power Station** LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313 PERMIT NUMBER

FROM

002-0 DISCHARGE NUMBER

MONITO	ORING F	PERIOD
MW/DD/YYYY		MM/DD/YYYY
02/01/2013	ТО	02/28/2013

DMR Mailing ZIP CODE:

MAJOR

(SUBR 01) CS

STORMWATER RUNOFF BASIN **External Outfall**

*** NO DISCHARGE X

PARAMETER		QUAI	NTITY OR LOADING	G		QUANTITY OR CON	CENTRATIO	NC		NO.	FREQUENCY	SAMPLE
PANAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALU	E	UNITS	EX	ANALYSIS	TYPE
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****							
00530 1 0 Effluent Gross	REQUIREMENT		7 2.11			eonA We	OAIIV	VX.	med		e alwardy es	GRAD
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****							
00530 8 0 Other Treatment, Process Complete	ักระกับ เกิรครับกระทำลัง		4.4.	-sake	***	SOPIALA VOL	OO O Alls		inn e		W. A	GRAB
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	*****	*****	400400	*****							
01032 1 0 Effluent Gross	RECOMPLEMENT	- A				Solo AVVic	DAIL		mole	-(३०)त	O.M.	CETAE
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	******	*****	******							
01034 1 0 Effluent Gross	MECHINE VENT	****		-	, Marie F	enol VVc	2 04	7	mr/r	740	7 My - 7	ด้าก
Copper, total (as Cu)	SAMPLE MEASUREMENT	******	******	*****	*****							
01042 1 0 Effluent Gross	STATER MINISTER		77 W. Fr.		-	2000 V V C	A CONTRACTOR	NAME OF THE OWNER.	mod to		Deliy	G GRAB
iron, total (as Fe)	SAMPLE MEASUREMENT	*****	440020	******	200000	******					-3	
01045 1 0 Effluent Gross	SEEM TO SEE SEE SEE SEE SEE SEE SEE SEE SEE SE	Trim .			-44	A PART OF	DALY		in the same			GRAB
Lead, total (as Pb)	SAMPLE MEASUREMENT	*****	*****	*****	*****							
01051 1 0 Effluent Gross				46.5		A ANNO	OMIT I		into it		10 1 7A	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision in					_		TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system, information submitted is,	ite the information sul or those persons dire	omitted. Based on my in actly responsible for gath	nquiry of the per hering the inform	rson or persons	SIGNATURE OF FRI	NCIPLE	815	406-3700		03/26/2013	
Plant Manager	aware that there are sign fine and imprisionment to	ificant penalties for su	bmitting false information	on, including the		EXECUTIVE OFFIC	ER OR	AREA	INUMBER		MM/DD/YYY	Υ
COMMENTS AND EXPLANAT	ON OF ANY VIOLAT	TIONS (Reference	ali attachmenta h	ere)		AV INVREED AC	3E41	CODE		L		
No Turbine Building Fire and No Fire Protection, Service \	l Oil Sump or Generic	Non-Chemical M	letal Cleaning Wast	ewater was c	•	enth.						



PAGE 1

1/6/2012

PERMITTEE NAME/ADDRESS

FACILITY

Exelon Generation Co., LLC NAME

ADDRESS 4300 Winfield Road

Warrenville, Il 60555-5701

Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313 PERMIT NUMBER

002-0 DISCHARGE NUMBER

MONITORING PERIOD							
MM/DD/YYYY		MM/DD/YYYY					
02/01/2013	то	02/28/2013					

DMR Mailing ZIP CODE:

61010

MAJOR (SUBR 01)

CS

STORMWATER RUNOFF BASIN

External Outfall

*** NO DISCHARGE X

PARAMETER		QUANTITY OR LOADING				QUANTITY OR CON	CENTRATIC	N		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALU	E	UNITS	EX	ANALYSIS	TYPE
Nickel, total (as Ni)	SAMPLE MEASUREMENT	*****	*****	*****	*****							
01067 1 0 Effluent Gross	SUBSTRUCTURE AND					ODA AVG	TOWN 176	MX.	ting/		30 W.S.	GRAB
Zinc, total (as Zn)	SAMPLE MEASUREMENT	*****	*****	*****								
01092 1 0 Effluent Gross	RESUREMENTAL	4			THE PERSON	047 019/A-AVG	SEE 26		Section Sec		TO THE STATE OF	GHAB
Oil and Grease	SAMPLE MEASUREMENT	48000	000000	20220	*****						Control of the second	
03582 1 0 Effluent Gross	CREQUIREMENTS	***				300A AVG	20 PAILY	ox de	mode		When we.	A GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT		Are an a second and		001010	000000	****		*****		Supplied to the relation of the	C-F
50050 1 0 Effluent Gross	AN DEPARTMENT OF	Beg Mon 2	Ben Mon	Modifier	**************************************	######################################					When Discharging	ESTMA.
	SAMPLE MEASUREMENT											
	HOE THEFT											100
	SAMPLE MEASUREMENT											
	A REQUIREMENTS											
	SAMPLE MEASUREMENT											
	BEQUIREMENTS						77 2		-			
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision in	n accordance with a sy	stem designed to assu	re that qualified	personnel		TELEPHONE			DATE		
Benjamin P. Youman	properly gather and evaluate who manage the system, information submitted is,	ute the information sub , or those persons dire	omitted. Based on my in actly responsible for gati	nquiry of the per nering the inform	nation, the	SIGNATURE OF PRI	NCIPL E	815	406-3700		03/26/2013	
Plant Manager	aware that there are sign	ificant penalties for su				EXECUTIVE OFFIC		AREA	MIMPES		MARROSS	
TYPED OR PRINTED	fine and imprisionment to	r knowing violations.				AUTHORIZED AC	ENT	CODE	NUMBER	l	MM/DD/YYY	Y

ENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- 1. This discharge point was not used this month.
- 2. There was no discharge of processed steam generator chemical cleaning wastewater during the month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

ATTACHMENT TO COOLING SYSTEM BLOWDOWN (Outfall 001-0) DISCHARGE MONITORING REPORT

For Exelon Byron Station Permit IL0048313 February 2013 Page 1 of 2

MONITORING DATA:

DATE	CWBD Temperature	CWBD Flow mgd	Rock River Flow		
	deg F		cfs		
02/01/2013	65.3	20.28	13300		
02/02/2013	69.7	23.64	13500		
02/03/2013	66.0	20.00	14700		
02/04/2013	68.3	15.26	14900		
02/05/2013	74.5	20.77	14300		
02/06/2013	74.5	18.78	14500		
02/07/2013	72.8	23.83	14300		
02/08/2013	72.8	18.08	13200		
02/09/2013	72.8	24.85	12600		
02/10/2013	75.3	20.16	12500		
02/11/2013	75.3	16.74	15400		
02/12/2013	68.6	19.62	15600		
02/13/2013	68.6	19.29	15300		
02/14/2013	78.3	21.55	14500		
02/15/2013	74.2	18.42	11700		
02/16/2013	67.9	26.33	8960		
02/17/2013	67.9	20.17	9090		
02/18/2013	76.4	15.18	8480		
02/19/2013	76.4	23.65	9130		
02/20/2013	64.1	16.80	7330		
02/21/2013	71.5	19.83	6980		
02/22/2013	74.1	20.92	13400		
02/23/2013	74.1	24.90	13200		
02/24/2013	70.8	20.02	9810		
02/25/2013	75.6	15.29	6390		
02/26/2013	75.6	24.28	5674		
02/27/2013	75.6	16.40	4920		
02/28/2013	75.6	20.44	4770		

ATTACHMENT TO COOLING SYSTEM BLOWDOWN (Outfall 001-0) DISCHARGE MONITORING REPORT

For Exelon Byron Station Permit IL0048313

February 2013
Page 2 of 2

HYDRAZINE MONITORING:

There were no steam generator chemical cleaning solutions (or associated rinses) containing hydrazine discharged to the Cooling System Blowdown during the month of February 2013.

TOTAL QUANTITY DISCHARGED: N/A

TOTAL DURATION OF DISCHARGE: N/A

COMMENTS:

- 1. Sodium Hypochlorite and Bromine compounds were used this month.
- 2. There was no discharge of steam generator chemical cleaning wastewater containing hydrazine in this month.
- 3. Flow existed through this outfall 28 of 28 days.
- 4. Per Special Condition 24 the influent from the Rock River and effluent from Outfall 001-0 was monitored for Total Suspended Solids (TSS) this month. The Rock River TSS value was 160.7 mg/L on 02/11/2013. The CWBD TSS value was 5.6 mg/L on 02/11/2013.
- 5. Rock River flow for February 2013 was >2400 cfs therefore daily temperature calculations were not required this month. (Special Condition 12).
- 6. There was no discharge of the 126 Priority Pollutants from cooling tower maintenance chemicals in February 2013. (Special Condition 15).



Exelon Generation Company, LLC Byron Station 4450 North German Church Road Byron, IL 61010-9794 www.exeloncorp.com

Nuclear

April 18, 2013

LTR: BYRON 2013-0049

File: 2.09.0411

1.10.0101

Illinois Environmental Protection Agency BOW CAS #19 1021 North Grand Avenue East P.O. Box 19276 Springfield, IL 62794-9276

Subject:

Byron Station Monthly Discharge Monitoring Report

In accordance with National Pollutant Discharge Elimination System (NPDES) Permit Number IL0048313, issued January 24, 2011, we are submitting the Discharge Monitoring Report for Byron Station, Units 1 and 2. This report covers the period of March 1, 2013 through March 31, 2013.

If there are any questions regarding this report, please contact Ms. Zoe Cox, Environmental/Radwaste Supervisor, at (815) 406-3035.

Respectfully,

Benjamin P. Youman

Plant Manager

Byron Nuclear Generating Station

BPY/ZC/eh

Attachments

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

		Byron,	Œ	61010
ATTNI	700	Cov/ENN	, c	DEC

DISCHARGE MONITORING REPORT (DMR)

IL0048313	A01-0
PERMIT NUMBER	DISCHARGE NUMBER

1	MONI	TORING PERI	OD	
į	MM/DD/YYYY		MM/DD/YYYY	
FROM	03/01/2013	от	03/31/2013	

DMR Mailing ZIP CODE:

61010

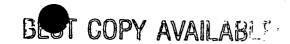
MAJOR

(SUBR 01) CS

DEMINERALIZER REGENERATE WASTE (001A) External Outfail

*** NO DISCHARGE

PARAMETER		QUANTITY OR LOADING				QUANTITY OR CONCENTRATION						FREQUENCY	I SAMDIF
PARAMETER		VALUE	VALUE	UNITS	VALUE		VALUE	VALUI	E	UNITS	EX	ANALYSIS	TYPE
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****		<0.8	<0.9		19	0	01/30	80
00530 1 0 Effluent Gross	REQUIREMENT	10 m	- 377	111		2	300A AVG	30 DAILY I	OX .	mo/l	17.3	Month	COMP-6
Chromium, hexavalent as Cr)	SAMPLE MEASUREMENT	20000	*****	*****	*****							500	
01032 1 0 Effluent Gross	REQUIREMENT		223	1	Z PIS	474	30DA AVG	PAILY	X.	.mo/L		a, Pally	GRAB
Chromium, total as Cr)	SAMPLE MEASUREMENT	*****	*****	810000	*****							500	
01034 1 0 Effluent Gross	REQUIREMENT		COLOR DE LA COLOR				30DA AVG	DAILYA	X.	то4	1	Pay of	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	*****	*****	*****							500	
D1042 1 0 Effluent Gross	REQUIREMENT	THE SAME		1137		**	300A AVG	DALYA	ox x ox x	_mp/l		Daily .	GRAM
ron, total as Fe)	SAMPLE MEASUREMENT	900100	******	*****	*****		494469					500	
01045 1 0 Effluent Gross	RECUREMENT.			100	100	16.		PAILY I	X	wo/F		Paly	GRAB
.ead, Total as Pb)	SAMPLE MEASUREMENT	*****	*****	*****	*****							500	
01051 1 0 Effluent Gross	REQUIREMENT	Se 1991	789	2800			2 30DA AYG	DAILY I	(X	-mg/L	- -	Pally	- GRAB
lickel, total as Ni)	SAMPLE MEASUREMENT	*****	400449	*****	*****							500	
01067 1 0 Effluent Gross	REQUIREMENT		7717		30.00		30DA AVG	DAILY	OX °	nest-		Daily	# QRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision is								TEL	EPHONE		DATE	
	properly gather and evaluation manage the system information submitted is	, or those persons din	actly responsible for gati	hering the inform	nation, the		SMATURE OF PRI	NCIPLE	815	406-3700		04/18/2013	
	information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I aware that there are significant penalties for submitting false information, including the possibility of fine and imprisionment for knowing violations.						EXECUTIVE OFFIC	ER OR	AREA	NUMBER	MM/DD/YYYY		
OMMENTS AND EXPLANAT	ION OF ANY VIOLA	DONS (Reference	ali attachmente h	mere)			AUTHORIES AU	1 7	CODE	<u></u>			
There was no discharge of p. Flow existed 31 of 31 days d	processed steam gen			-•	onth.							,	
PA Form 3320-1 (Rev 01/06)	Provious aditions ma	u bo usod										1/6/2012	PAGE



		4

PERMITTEE NAME/ADDRESS

NAME

Exelon Generation Co., LLC

ADDRESS

4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY

Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	
PERMIT NUMBER	

A01-0	
DISCHARGE NUMBER	

(MONITO	RING	PERIOD
ı	MM/DD/YYYY		MM/DD/YYYY
FROM	03/01/2013	то	03/31/2013

DMR Mailing ZIP CODE:

61010

MAJOR (SUBR 01)

CS

DEMINERALIZER REGENERATE WASTE (001A) External Outfall

*** NO DISCHARGE

DADANETED		QUA	NTITY OR LOADIN	G	QUANTITY OR CONCENTRATION						FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALU	E	UNITS	EX	OF ANALYSIS_	TYPE
inc, Total as Zn)	SAMPLE MEASUREMENT	******	*****	*****	*****						500	
01092 1 0 Effluent Gross	REQUIREMENT.	17 11211	1	HILL	20070	30DA AVG	DALY!		mg/L		Daily	GRAB
low, in conduit or thru reatment plant	SAMPLE MEASUREMENT	0.057	0.243	3	*****	******	*****		*****	0	01/01	ES
60050 1 0 Effluent Gross	BEQUIREMENT	Req. Mon.	Beg. Mon.	» Maald	1	A 177	389		HING		paily. As	CONTIN
	SAMPLE MEASUREMENT			<u> </u>								
· · · · · · · · · · · · · · · · · · ·	BEOUIREMENT									¥.	1	
	SAMPLE MEASUREMENT											
	REQUIREMENT			101	250		1.23					
	SAMPLE MEASUREMENT					<u> </u>		,				ļ
	REQUIREMENT SAMPLE MEASUREMENT					The state of the state of		<u>Justife</u>	ત <u>ું કેલે ફર્સ્ય</u> કૃષ્ટિક			
	PERMIT SAMPLE	-						i de la compansión de l				
	MEASUREMENT REBMIT				Section 1				And S	7.4.5. 2. 2. 3. 3. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	REQUIREMENT. I certify under penalty of direction or supervision is					to the transfer of the	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation who manage the system	ute the information su , or those persons dir	brnitted. Based on my i ectly responsible for gat	nquiry of the per hering the inform	rson or persons nation, the	S. D. C. SIGNATURE OF PR	MCIPI E	815	406-3700		04/18/2013	
Plant Manager	information submitted is, aware that there are sign fine and imprisionment to	nificant penalties for s			CHICKORY I COM	EXECUTIVE OFFIC	ER OR	AREA	NUMBER		MM/DD/YYY	~
TYPED OR PRINTED	Total Street authorized and are	A MIDHELY VICEUOSIS.				AUTHORIZED A	GENT	CODE				

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) **DISCHARGE MONITORING REPORT (DMR)**

DMR	Mailing	ZIP	CODE

MAJOR (SUBR 01)

External Outfall

CS

STP PLANT EFFLUENT (FORMER 0018)

61010

PERMITTEE NAME/ADDRESS NAME

Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY **Byron Nuclear Power Station** LOCATION 4450 North German Church Road

Byron, IL 61010

1500,100,10		
PERMIT NUMBER		DISCHARGE NUMBER
MOM	IITORING PE	RIOD
MM/DD/YYYY		MM/DD/YYYY
03/01/2013	TO	03/31/2013

TO

B01-0

11 0048313

FROM

*** NO DISCHARGE

ATTN: Zoe Cox/ENV SPEC

PARAMETER		QUAI	NTTTY OR LOADING	G		Gn	IANTITY OR CON	CENTRATIC	N		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE		VALUE	VALU	E	UNITS	EX	ANALYSIS	TYPE
3OD, 5-Day 20 Deg. C)	SAMPLE MEASUREMENT	0.66	0.93	26	*****		9.5	14.0		19	0	02/30	24
00310 1 0 Effluent Gross	PERMIT	5.3 30DA AVG **	10.5 DAILYMX	a but	100		30 30DA AVG	DAIL X		mod	344	Twice Per Month	COMPSA
Н	SAMPLE MEASUREMENT	*****	******	*****	7.30		******	7.39)	12	0	02/30	GR
00400 1 0 Effluent Gross	BEQUIREMENT	HI CONTRACTOR	ann.		MINIMUM			MIXAM		SU .	Frai	Twice Per Month	GRAB
colids, total suspended	SAMPLE MEASUREMENT	0.77	0.78	26	*****		10.7	11.7		19	0	02/30	24
10530 1 0 Effluent Gross	BEOUREMENT	5.3 - 300A AVG	10.5 DAILY MX	Z DO			30 3004 AVG	60 RAILY		.mg/L	7	Twice Per Month	COMP24
flow, in conduit or thru reatment plant	SAMPLE MEASUREMENT	0.007	0.010	3	*****		*****	****		*****	0	01/01	CN
60050 1 0 Effluent Gross	PERMIT AND SAMPLE	Req. Mon.	Req. Mon	Mosko	11111	(45.7 (17.5)	7.7	3		The same		Pairy	CONTIN
	MEASUREMENT		i e s		- 6	\perp			- · · · ·	* · · · · · · · · · · · · · · · · · · ·			
	BEOUBEMENT SAMPLE MEASUREMENT	42.79				7			读 分		4945		3 1 3
	PERMO BEOLIREMENT SAMPLE					€: ;		4.00	LIVE!				
	MEASUREMENT PERMIT REQUIREMENT					, 3 , 3 , 3 , 3 , 3 , 3 , 3 , 3 , 3 , 3							
NAME/ITTLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision in	law that this documen	t and all attachments we ystem designed to assu	ere prepared un	der my personnel				TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluate who manage the system information submitted is,	ute the information sul , or those persons dire	omitted. Based on my in actly responsible for gath	nquiry of the per nering the inform	son or persons	SIG	Smark (NCIPLE	815	406-3700		04/18/2013	
Plant Manager	aware that there are sign fine and imprisionment to	nificant penalties for su	ibmitting lalse information	on, including the	possibility of	E	XECUTIVE OFFICE	ER OR	AREA	NUMBER		MM/DD/YYY	Υ
TYPED OR PRINTED							AUTHORIZED AG	ENT	CODE		l		



DMD	Mailing	71D	CODE	

MAJOR

(SUBR 01)

61010

PERMITTEE NAME/ADDRESS

NAME

FACILITY

LOCATION

Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

Byron Nuclear Power Station

4450 North German Church Road

IL0048313 PERMIT NUMBER

FROM

C01-0 DISCHARGE NUMBER

WWTP (FORMER 001C) External Outfall

··· NO DISCHARGE ...

CS

Byron, IL 61010

DADAMETER		QUAI	NTTTY OR LOADING	3		QUANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	5.6	7.2	19	0	02/30	24
00530 1 0 Effluent Gross	REPAIT	1000	eren .		3.47	15 39DA AVG	BOIL A WOX	_mg/_	100 m	Twice Per Month	COMP34
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01032 1 0 Effluent Gross	REQUIREMENT		*****		THE STATE OF	30DA AVQ	DAILY MX	mg/L		Daily -	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
D1034 1 0 Effluent Gross	REBMIT	2 mares			1	30DA AVG	DAILY MX	mg/L	*	Daily	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	******	*****	665900					500	
D1042 1 0 Effluent Gross	BEQUIREMENT.					30DA AYG	PAILY MX	mg4		Pally	GRAB
ron, total (as Fe)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****				500	
01045 1 0 Effluent Gross	BEQUIRENENS!					and the second	DAILY MX	mod.		Paly	GFAB
Lead, total (as Pb)	SAMPLE MEASUREMENT	*****	200000	*****	******					500	
D1051 1 0 Effluent Gross	REQUIREMENT.				100	2 30PA AVG	PALY MX	mg/L		Daily	GRAB
Nickel, total (as Ni)	SAMPLE MEASUREMENT	404444	*****	*****	*****					500	
D1067 1 0 Effluent Gross	REQUIREMENT		-			30DA AVG	DAILY MX	mod.		Daily	GRAR
	I certify under penalty of i direction or supervision in	n accordance with a sy	ystem designed to assu	re that qualified	personnel	a ' `	TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system, information submitted is,	or those persons dire	ectly responsible for gatt	nering the inform	nation that	IGNATURE OF PRI		406-3700		04/18/2013	
Plant Manager	aware that there are sign fine and imprisionment to	ificant penalties for su				EXECUTIVE OFFICE AUTHORIZED AG	ER OR AREA	NUMBER		MM/DD/YYY	·

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- 1. There was no discharge of processed steam generator chemical cleaning wastewater during this month.
- 2. Flow existed through this outfall 17 of 31 days during the month.

_				
FΡΔ	Form 3320L	1 (Rev 01/06)	Province edition	hagu da yem an

1/6/2012

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS	PERM	MITTEE	NAME	/ADDI	RESS
------------------------	------	--------	------	-------	------

NAME

Exelon Generation Co., LLC

ADDRESS

4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY LOCATION 4450 North German Church Road

Byron Nuclear Power Station

Byron, iL 61010

IL0048313	
PERMIT NUMBER	

C01-0 DISCHARGE NUMBER

	MO	NITORING PERI	OD	
	MM/DD/YYYY		MM/DD/YYYY	
FROM	03/01/2013	то	03/31/2013	

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01)

WWTP (FORMER 001C)

External Outfail

***NO DISCHARGE

3

CS

PARAMETER		QUA	NTITY OR LOADIN	G		Q	UANTITY OR CON	CENTRATIC)N		NO.	FREQUENCY	SAMPLE
PANAMETER		VALUE	VALUE	UNITS	VALUE		VALUE	VALU	E	UNITS	EX	ANALYSIS	TYPE
Zinc, total as Zn)	SAMPLE MEASUREMENT	*****	*****	*****	*****				_			500	
01092 1 0 Effluent Gross	REQUIREMENT		t topy	******	1111	24.2	130DA AVG	DAILY	œŝ.	mod.	91	Qally .	* CHAP
low, in conduit or thru reatment plant	SAMPLE MEASUREMENT	0.025	0.046	3	*****		*****	****		*****	0	01/01	CN
60050 1 0 Effluent Gross	REQUIREMENT.	Plag Mon	Req. Mon.	MoeVd	56 (22)			TVIII.		-		To Daily	CONTIN
	SAMPLE MEASUREMENT												
	BEQUIREMENT	No.				X.					TON	H.	
	SAMPLE MEASUREMENT				-								
	BEOUISEMENT			***									
	SAMPLE MEASUREMENT												
	RECUIREMENT SAMPLE	April de la constant	The STATE					W		10			
	MEASUREMENT PERMIT AL BEQUIREMENT			- Total					egy.		Sign		
	SAMPLE MEASUREMENT					(120 35 24	-	774		
	BEQUIREMEND	31 ST				2	T. W.	Jan 18					
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision to							_	TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system information submitted is,	lute the information su n, or those persons dir	bmitted. Based on my is ectly responsible for gat	nquiry of the pe hering the infor	rson or persons nation, the	SI	Sman C GNATHAE OF PA	AUM-	815	406-3700		04/18/2013	
Plant Manager	aware that there are sign fine and imprisionment to	nificant penalties for s					EXECUTIVE OFFIC	ER OR	AREA	NUMBER	<u> </u>	MW/DD/YYY	Υ
							AUTHORIZED AC	SENT	CODE				-

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station

LOCATION 4450 North German Church Road

Byron, IL 61010

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

IL0048313	D01-0
PERMIT NUMBER	DISCHARGE NUMBER

	MO	NITORING PERIC	OD	
	MM/DD/YYYY		MM/DD/YYYY	
FROM	03/01/2013	то	03/31/2013	

DMR Mailing ZIP CODE: MAJOR

61010

(SUBR 01)

4

RADWASTE TREATMENT (FORMER 0010) External Outfall

CS

*** NO DISCHARGE ***

D # D A 4		QUA	NTITY OR LOADIN	G		QUANTITY OR CO	NCENTRATIC	N		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALU	E	UNITS	EX	OF ANALYSIS	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.5	<0.5		19	0	02/30	СР
00530 1 0 Effluent Gross	BEOUBENENT			41416	V. Carre	15 4 300A AVG	30 DAILY	YX.	mg/L	7	Twice Per Month	COMPOS
Flow, in conduit or thru reatment plant	SAMPLE MEASUREMENT	0.023	0.023	3	*****	******	*****	•	*****	0	01/01	CN
50050 1 0 Effluent Gross	BEQUIREMENT SAMPLE	Req. Mon. SODA AVG.	Req. Mon.	MosVq	- Junes				To be a	****	Daily	CONTIN
	MEASUREMENT BERMI REQUIREMENT		guay ji tuy					* Y.				
	SAMPLE MEASUREMENT		Sign of the state	provide and track					103/650-126	re si	Solve and all	
	SAMPLE MEASUREMENT			****								
	BEOUREMENT.			48.00				: \$				
	MEASUREMENT REPUBLICATION							i sir		- 60 th 6		
	SAMPLE MEASUREMENT RERMIT BEQUIREMENT	na luki		AND PROSE			Salah Ta					io e de
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision is		nt and all attachments w		nder my	S. J. S.	A start Tree is	TEL	EPHONE	3-180-2	DATE	A CONTRACTOR
Benjamin P. Youman	properly gather and eval who manage the system information submitted is	lute the information su n, or those persons dir	ibmitted. Based on my li rectly responsible for gat	inquiry of the per thering the inform	rson or persons mation, the	SIGNATURE OF PE	MCIPLE	815	406-3700		04/18/2013	
Plant Manager	aware that there are sign fine and imprisionment for	nificant penalties for s	ubmitting false informati			EXECUTIVE OFFI AUTHORIZED A		AREA	NUMBER		MM/DD/YYY	Υ

Exelon Generation Co., LLC

Warrenville, IL 60555-5701

Byron Nuclear Power Station

LOCATION 4450 North German Church Road

Byron, IL 61010

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

	DISCHARGE MONITORING
ERMITTEE NAME/ADDRESS	

IL0048313 E01-0
PERMIT NUMBER DISCHARGE NUMBER

	MO	NITORING PERI	מס
	MM/DD/YYYY		MM/DD/YYYY
ROM	03/01/2013	то	03/31/2013

DMR Mailing ZIP CODE:

61010

MAJOR (SUBR 01)

CS

STORMWATER (FORMER 001E)

External Outfail

*** NO DISCHARGE _____

3

ATTN: Zoe Cox/ENV SPEC

ADDRESS 4300 Winfield Road

NAME

FACILITY

PARAMETER		QUA	ITTY OR LOADING	3		QUANTITY OR CONCENTRATION					SAMPLE
PARAMEIER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
00530 1 0 Effluent Gross	REDUIREMENT		* (24)	77.	in the	15 30DA AVG	DAILY MX	∴		Weekly	GRAP
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	2.3	2.6	19	0	01/07	GR
00530 8 0 Other Treatment, Process Complete	REQUIREMENT.				Taken.	300 AVG	PALY WX	mg/L	T.	AsakA	-CRAB
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	*****	440200	*****	*****					500	
01032 1 0 Effluent Gross	REQUIREMENT		10 m	77.11		SQDA AVG	DAIL X WX	pol.		Delly	* GRAR
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	tites	*****	******					500	
01034 1 0 Effluent Gross	REQUIREMENT	or specific	41.7	199		30DA AVO	DAIL	" med.	- i	- Paly	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	******	*****	*****	*****			<u> </u>		500	
D1042 1 0 Effluent Gross	REQUIREMENT			1772	-	SODA AVG	DALXMX	994		Pally	GRAB
ron, total (as Fe)	SAMPLE MEASUREMENT	*****	*****	*****	10000	******				500	
D1045 1 0 Effluent Gross	REQUIREMENT	**************************************			12472	N. W.	DAILY MX	mos		Pally A	GRAB
Lead, total (as Pb)	SAMPLE MEASUREMENT	*****	*****	*****	499449					500	
01051 1 0 Effluent Gross	REQUIREMENT	er appropri	76.7		1777	300A AVQ	DAILY MX	- mg/L	30 JUNE 1	Pally	KGBAB
	I certify under penalty of direction or supervision is	n accordance with a sy	stem designed to assu	re that qualified	personnel	risonnel and persons Sman Chann B15 406-3				DATE	
Benjamin P. Youman	properly gather and evaluation who manage the system information submitted is,	, or those persons dire	ctly responsible for gatt	nering the inform	nation, the					04/18/2013)
	aware that there are sign fine and imprisionment to	ificant penalties for su				EXECUTIVE OFFIC		INUMBER		MM/DD/YYY	γ

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- 1. There was no discharge of processed steam generator chemical cleaning wastewater during the month.
- 2. Flow existed through this outfall 2 of 31 days during the month.
- 3. Fire Protection drain water was discharged this month

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012



ZIP CODE:	61010

PERMITTEE NAME/ADDRESS

NAME

Exelon Generation Co., LLC

ADDRESS

4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station **LOCATION** 4450 North German Church Road

Byron, IL 61010

IL0048313	E01-0
PERMIT NUMBER	DISCHARGE NUMBER

 MO	NITORING	PERIOD
 MM/DD/YYYY		MM/DD/YYYY
03/01/2013	то	03/31/2013

(SUBR 01) CS

DMR Mailing MAJOR

STORMWATER (FORMER 001E) **External Outfall**

*** NO DISCHARGE

24244		QUA	NTITY OR LOADING	G	QUANTITY OR CONCENTRATION					FREQUENCY	- I GAMDIE
PARAMETER	PARAMETER		VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	ANALYSIS	TYPE
vickel, total as Ni)	SAMPLE MEASUREMENT	*****	672729	*****	*****					500	
)1067 1 0 Effluent Gross	BEOLUBEMENT.	P. P.	MAN AND AND AND AND AND AND AND AND AND A	*****		30DA AVG	DAILY MX	mg/L		Paly	GRAB
inc, total as Zn)	SAMPLE MEASUREMENT	*****	*****	*****	44489					500	
11092 1 0 Effluent Gross	BEBUT	da wee	A CHILL			30DA AVG	.⊋.PAILY MX	mo4	10	Paly	GRAB
low, in conduit or thru reatment plant	SAMPLE MEASUREMENT	0.560	1.080	3	******	******	*****	*****	0	02/30	CN
0050 1 0 ffluent Gross	BEOUBENENT	Heq. Mgn.	Req. Mon.	MoeVd			*****	4		Twice Per Month	CONTIN
	SAMPLE MEASUREMENT REPMIT	and the second		North Section Co., Co.	tot sylva i godini i		144 m/ 5 / 527 m/ 5	200	ۇزۇرىيى ر ى	يو مايور در در ومنۍ دارو در	7 94354
	BEOUREMENT: SAMPLE					200000			3.4		
	MEASUREMENT REQUIREMENT SAMPLE MEASUREMENT										
	BERMIT								10.5		7.344 31.448
	MEASUREMENT PERMIT REQUIREMENT							The second second	138		
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision i	law that this documer n accordance with a s	nt and all attachments w system designed to assu	re that qualified	personnel	0 \ 0		TELEPHONE		DATE	
Benjamin P. Youman	properly gather and evalues who manage the system information submitted is,	ute the information su , or those persons dir	rson or persons nation, the	son or persons Sampard Course				04/18/2013			
Plant Manager TYPED OR PRINTED	aware that there are sign tine and imprisionment to	nificant penalties for s	ubmitting latse informati	on, including the		EXECUTIVE OFFICE	ER OR	REA NUMBER		MM/DD/YYY	Υ

3. No Turbine Building Fire and Oil Sump or Generic Non-Chemical Cleaning wastewater was discharged this month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	001-0
PERMIT NUMBER	DISCHARGE NUMBER

| MONITORING PERIOD | | MM/DD/YYYY | | MM/DD/YYYY | | FROM | 03/01/2013 | , TO | 03/31/2013 |

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01)

COOLING SYSTEM BLOWDOWN

CS

External Outfall

*** NO DISCHARGE ...

PARAMETER		QUAN	ITITY OR LOADIN	G		QI	JANTITY OR CON	CENTRATIO	N		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE		VALUE	VALUI	E	UNITS	EX	OF ANALYSIS	TYPE
remperature, water deg. Fahrenheit	SAMPLE MEASUREMENT	*****	*****	*****	*****		40000	79.0		15	0	01/01	CN
00011 1 0 Effluent Gross	REQUIREMENT.		dalin	4	Service of	5		Req. Mc		deo F		Daily	CONTIN
Н	SAMPLE MEASUREMENT	010000	*****	*****	8.41		*****	8.62		12	0	01/07	GR
00400 1 0 Effluent Gross	REQUIREMENT			DI M	6 MINIMUM	م پورو		MAXIMI		. SU.	3(3)	Weekly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****			5.6	5.6		19	0	01/30	GR
00530 1 0 Effluent Gross	REBUIT	grugg	92.9889 2.62.4.6	201000 N	20001		Reg. Mon. 30DA AVG	Ped W		mg/L		Monthly	GRAB
Oil & Grease	SAMPLE MEASUREMENT	*****	904400	*****	*****		<2.0	3.8		19	0	01/07	GR
00556 1 0 Effluent Gross	BEQUIREMENT	100			T.R.O.		15 30DA AVG	20 DAILY N	ox.∜	· mat	3.4	Weekly -	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	490404	*****	*****	*****		*****	<0.002		19	0	01/07	GR
)1034 1 0 Effluent Gross	REQUIREMENT		4100 AV	3			97.6100	DAILY N	OX.	mg/L		Weekly (**)	GRAB
Copper, total (as Cu)	8AMPLE MEASUREMENT	******	*****	*****	*****		******					500	
)1042 1 0 Effluent Gross	BEQUIREMENT						AND	0.071 PAILY N	ıx .			≨ Weekly #	GRAB
Zinc, total (as Zn)	SAMPLE MEASUREMENT	99202	*****	*****	*****		0.006	0.009		19	0	01/07	GR
01092 1 0 Effluent Gross	PERMIT			2714	KS 7711	-1	213 200A AVG	433 QAILYN	ox 5	mo/ d	132	- Meeky	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision in	law that this document	t and all attachments w	ere prepared un	der my					EPHONE		DATE	The second secon
Benjamin P. Youman	properly gather and evalu who manage the system,	ite the information sub or those persons dire	mitted. Based on my incity responsible for gat	nquiry of the per hering the inform	rson or persons nation, the	1	Bergard (<u></u>	815	406-3700		04/18/2013	
Plant Manager	information submitted is, aware that there are sign fine and imprisionment to	ificant penalties for su					SNATURE OF PRO XECUTIVE OFFICE		AREA	NUMBER			
TYPED OR PRINTED							AUTHORIZED AG	ENT	CODE	NUMBER		MM/DD/YYY	T
COMMENTS AND EXPLANATI . Monitoring data for outfall 00			i aii attachments h	ierė)	•								
PA Form 3320-1 (Rev 01/06) I	Daniera aditiona ma												



NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) **DISCHARGE MONITORING REPORT (DMR)**

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC **ADDRESS**

4300 Winfield Road Warrenville, IL 60555-5701

FROM

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	001-0
PERMIT NUMBER	DISCHARGE NUMBER
MONITORII	NG PERIOD
MM/DD/YYYY	MW/DD/YYYY

TO

03/31/2013

03/01/2013

DMR Mailing ZIP CODE:

MAJOR (SUBR 01)

CS

COOLING SYSTEM BLOWDOWN External Outfall

*** NO DISCHARGE

61010

_		QUAI	NTTTY OR LOADING	G		QUANTITY OR CONCENTRATION					NO. FREQUENCY	
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUI	E	UNITS	EX	OF ANALYSIS	SAMPLE TYPE
Oxidants, total residual	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.04		19	0	01/07	GR
34044 1 0 Effluent Gross	REQUIREMENT		And the State of the				DAIL Y.A	AX	mg/L		Weekly	GRAB
Priority pollutants total effluent	SAMPLE MEASUREMENT	*****			*****	*****					500	
50008 1 0 Effluent Gross	BEQUIREMENT	in the same of	Reg. Mon.	10/0	TVPP	All manual as	Req. Mo	n. Ø	mg/L	200		≤ GRAB
low, in conduit or thru reatment plant	SAMPLE MEASUREMENT	20.31	25.66	3	*****	*****	*****		*****	0	01/01	CN
50050 1 0 Effluent Gross	RECUIREMENT	Req. Mon.	Req. Mon.	Makk	200	Pill	389.00	(a)	A PROPERTY		+ of Dally	CONTIN
Chlorine, total residual	SAMPLE MEASUREMENT	*****	*****	*****	100001	*****					500	
60060 1 0 Effluent Gross	REOMBEMENT.	A WW	The same of	2173	Line way	********	OS PAILY	ıx ·	7.0091		Weekly	GRAB
łydrazine	SAMPLE MEASUREMENT	*****	*****	*****	*****						500	
11313 1 0 Effluent Gross	REQUIREMENT	- and -	- 4.8		Mil	.011 300A AYG	DAILY A	OX -	mg/}		Daily When Discharging	G QRAB
	SAMPLE MEASUREMENT											
	REQUIREMENTS SAMPLE							¥ 8:			1 41 (2)	Aug 40
	MEASUREMENT	TELS GENERAL	The same was to the	10 100 × 25 400	1.A.A. 1	Turke Cure No. 4	re no no esta		3044 to	. A. 1962	San	m v og græ
NAME/TITLE	BEQUIREMENT Certify under penalty of	law that this documen	and all attachments w	ana Omenamen un	der my		3.20		14.00			
PRINCIPAL EXECUTIVE OFFICER	direction or supervision is	n accordance with a s	ystem designed to assu	re that qualified	personnel	1 26	/		EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluate who manage the system information submitted is,	, or those persons dire	actly responsible for gath	nering the inform	ation, the	IGNAÇURE OF FRI	NCIPLE	815	406-3700		04/18/2013	
Plant Manager	aware that there are sign	ificant penalties for su				EXECUTIVE OFFIC		AREA	NUMBER		MM/DD/YYY	Y
	fine and imprisionment fo	or knowing violations.	e all attachments h			AUTHORIZED AC	ENT	CODE				<u> </u>

BEST COPY AVAILABLE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

ATTN: Zoe Cov/ENV SPEC

NAME

Exelon Generation Co., LLC

ADDRESS

4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY

Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313 PERMIT NUMBER

FROM

1. No Turbine Building Fire and Oil Sump or Generic Non-Chemical Metal Cleaning Wastewater was discharged this month.

2. No Fire Protection, Service Water or Closed Cooling System Drain Water was discharged this month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

002-0 DISCHARGE NUMBER

MONITORING PERIOD MM/DD/YYYY MM/DD/YYYY 03/01/2013 TO 03/31/2013

DMR Mailing ZIP CODE:

61010

MAJOR (SUBR 01)

STORMWATER RUNOFF BASIN

External Outfall

*** NO DISCHARGE X

1/8/2012

PAGE 1

CS

DADAMETER		QUA	NTTTY OR LOADIN	G		QUANTITY OR CON	CENTRATION			NO. FREQUENCY		SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE		UNITS	EX	ANALYSIS	TYPE
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****							
D0530 1 0 Effluent Gross	BEOUIREMENT	H	enn.	1	* *******	15 30DA AVG	DAILY M	ું :	mo/L		Waekly	GRAB
Solids, Total Suspended	SAMPLE MEASUREMENT	400240	******	*****	*****							
00530 8 0 Other Treatment, Process Complete	REQUIREMENT					30 AVG	DAILY NO				Weekly 5	GRAD
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****							
01032 1 0 Effluent Gross	REQUIREMENT	7,000	文 4 4			.011 -30PA AVG	.Q16 PAILXIM		mod-		CONTRACTOR OF THE PARTY OF THE	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	925799	******	*****	*****							
01034 1 0 Effluent Gross	REQUIREMENT		THE STATE OF THE S	A L	******	30DA AVG	- DAILY M	Ç.,	mg/L		Pally 3	CRAR
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	*****	*****	******							
01042 1 0 Effluent Gross	REQUIREMENT	PHP.	100 miles	學集本	ACAN'S	.025 300A AVG	Q41 QAILY NO	4 4	mg/L		- Dely	GRAB
ron, total (as Fe)	SAMPLE MEASUREMENT	*****	*****	*****	44444	*****					!	
01045 1 0 Effluent Gross	BEQUIREMENT	24 2016				37	DAILY M		1984.		Paly	GRAB
Lead, total (as Pb)	SAMPLE MEASUREMENT	*****	*****	.****	*****							
01051 1 0 Effluent Gross	BEQUIREMENT	72.79	A STATE OF	7		.063 30DA AVG	296 DAILY M		mov.	1	2 Daily	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICE	Imperior of Suberasion of	in accordance with a s	ystem designed to assu	re that qualified	personnel	<i>a</i>	,	TELEP	HONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system information submitted is,	, or those persons dir	ectly responsible for gat	hering the inform	nation, the	SIGNATURE OF PRI		815 4	06-3700		04/18/2013	
Plant Manager	aware that there are sign	nificant penalties for su				EXECUTIVE OFFICE	ER OR	REA	UMBER		MMORAN	·
TYPED OR PRINTED	fine and imprisionment to	or knowing violations.			ļ	AUTHORIZED AC	GENT C	ODE	UMBEK		MM/DD/YYY	T



Exelon Generation Co., LLC

Warrenville, IJ 60555-5701

Byron Nuclear Power Station

4300 Winfield Road

LOCATION 4450 North German Church Road

NATIONAL

MONITORING PERIOD

TO

POLLUTANT	DISCHARGE EL	IMINATION S	SAZIFW (M	PDES)
DISCHARGE	E MONITORING	REPORT (D	MDI	

IL0048313	
PERMIT NUMBER	

MM/DD/YYYY

03/01/2013

FROM

002-0 DIS

CHARGE NUMBER	
	_ s
	} €
MM/DD/YYYY	7
03/31/2013	7

DMR Mailing ZIP CODE:

61010

MAJOR (SUBR 01)

CS

TORMWATER RUNOFF BASIN xternal Outfall

... NO DISCHARGE X

Byron, IL 61010

PERMITTEE NAME/ADDRESS

NAME

ADDRESS

FACILITY

0404447770		QUA	NTITY OR LOADING	G		QUANTITY OR CON	CENTRATIO	N	NO	FREQUENCY OF	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	. UN	ius E	ANALYSIS	TYPE
Nickel, total (as Ni)	SAMPLE MEASUREMENT	*****	******	*****	*****						
01067 1 0 Effluent Gross	REQUIREMENT	THE PARTY	A SIL		100 ×	.011 200A AVG	DAILY M	x · · · · · · ·	2)	* Daily 3	у быта
Zinc, total (as Zn)	SAMPLE MEASUREMENT	*****	*****	*****							
D1092 1 0 Effluent Gross	BERMIT		C. UPL	1		047 300A AVG	26 DAILYM	X	94.*	Daily.	GRAB
Oil and Grease	SAMPLE MEASUREMENT	*****	*****	*****	*****						
03582 1 0 Effluent Gross	REBUIT		***************************************		a promo	30RA AYG	DAILY M	X I	94	When Discharging	GPAB
Flow, in conduit or thru reatment plant	SAMPLE MEASUREMENT				*****	*****	*****		***		
50050 1 0 Effluent Gross	REQUIREMENT	Req. Mon. 200A AVG	Req. Mgn. DAILY MX	Moeko			527		**	When Discharging 1	ESTIMA
	SAMPLE MEASUREMENT										
	REQUIREMENT	****	Maria Car	76							
	SAMPLE MEASUREMENT	_									
	REQUIREMENT. SAMPLE										
	MEASUREMENT BERMIT REQUIREMENT					4 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4					(Asher)
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision is	law that this documen	t and all attachments w			<u>《</u> 图》(1985年)。		TELEPHO	ONE	DATE	
Benjamin P. Youman	properly gather and evaluation manage the system.	ite the information sul , or those persons dire	bmitted. Based on my is actly responsible for gat	nquiry of the per nering the inform	rson or persons nation, the	SIGNATURE OF PR	fine	815 406	3700	04/18/2013	
Plant Manager	information submitted is, aware that there are sign	ificant penalties for su				EXECUTIVE OFFICE		AREA			
TYPED OR PRINTED	fine and imprisionment to	or knowing violations.				AUTHORIZED AC		CODE	ABER	MM/DD/YYY	Y

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- 1. This discharge point was not used this month.
- 2. There was no discharge of processed steam generator chemical cleaning wastewater during the month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

ATTACHMENT TO COOLING SYSTEM BLOWDOWN (Outfall 001-0) DISCHARGE MONITORING REPORT

For Exelon Byron Station Permit IL0048313 March 2013 Page 1 of 2

MONITORING DATA:

DATE Temperature deg F CWBD Flow cfs 03/01/2013 75.0 21.95 4,500 03/02/2013 71.6 23.79 4,410 03/03/2013 69.6 20.25 4,230 03/04/2013 71.2 15.85 4,110 03/05/2013 71.2 20.63 4,369 03/06/2013 72.8 19.84 4,130 03/07/2013 72.8 21.23 4,020 03/08/2013 71.9 19.37 4,020 03/09/2013 71.7 25.34 3,870 03/10/2013 78.3 20.19 5,370 03/11/2013 78.3 20.19 5,370 03/11/2013 74.9 15.24 17,000 03/13/2013 68.2 20.83 20,400 03/14/2013 69.3 20.14 17,300 03/15/2013 68.6 18.85 15,500 03/17/2013 72.5 25.66 15,700 03/18/2013 74.7 15.88 <t< th=""><th>MONITORING</th><th>CWBD</th><th></th><th>Rock River</th></t<>	MONITORING	CWBD		Rock River
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ATTACHMENT TO COOLING SYSTEM BLOWDOWN (Outfall 001-0) DISCHARGE MONITORING REPORT

For Exelon Byron Station Permit IL0048313 March 2013 Page 2 of 2

HYDRAZINE MONITORING:

There were no steam generator chemical cleaning solutions (or associated rinses) containing hydrazine discharged to the Cooling System Blowdown during the month of March 2013.

TOTAL QUANTITY DISCHARGED: N/A

TOTAL DURATION OF DISCHARGE: N/A

COMMENTS:

- 1. Sodium Hypochlorite and Bromine compounds were used this month.
- 2. There was no discharge of steam generator chemical cleaning wastewater containing hydrazine in this month.
- 3. Flow existed through this outfall 31 of 31 days.
- 4. Per Special Condition 24 the influent from the Rock River and effluent from Outfall 001-0 was monitored for Total Suspended Solids (TSS) this month. The Rock River TSS value was 10.0 mg/L on 03/04/2013. The CWBD TSS value was 5.6 mg/L on 03/04/2013.
- 5. Rock River flow for March 2013 was >2400 cfs therefore daily temperature calculations were not required this month. (Special Condition 12).
- 6. There was no discharge of the 126 Priority Pollutants from cooling tower maintenance chemicals in March 2013. (Special Condition 15).



Exelon Generation www.exeloncorp.com
Byron Generating Station
4450 North German Church Road

Byron, IL 61010-9794 Tel 815-234-5441 Nuclear

May 23, 2013

LTR: BYRON 2013-0070

File: 2.09.0411 1.10.0101

Illinois Environmental Protection Agency Water Pollution Control Compliance Assurance Section #19 1021 North Grand Avenue East P.O. Box 19276 Springfield, IL 62794-9276

Subject: Byron Station Monthly Discharge Monitoring Report

In accordance with National Pollutant Discharge Elimination System (NPDES) Permit Number IL0048313, issued January 24, 2011, we are submitting the Discharge Monitoring Report for Byron Station, Units 1 and 2. This report covers the period of April 1, 2013 through April 30, 2013.

On 4/17/13 at 13:57, the Stormwater Runoff Basin Overflow (Outfall 002) of Byron Station's NPDES permit began to experience flow conditions due to the excessive rainfall in the vicinity. This flow event lasted until 17:20 on 4/17/13. The estimated flowrate was 1000 gallons per minute for a total flow of 203,000 gallons discharged via Outfall 002. As required per the permit, Total Suspended Solids (TSS) and Oil and Grease samples were obtained and analyzed. The TSS results were 198 ppm and 195 ppm for an average concentration of 197 ppm. This exceeds the permit 30-day average concentration limit of 30 ppm and the daily maximum concentration limit of 100 ppm. The Oil and Grease result was 2.3 ppm. On 4/17/13 at 21:31 Outfall 002 again experienced flow conditions due to another extremely heavy rain event in the vicinity of Byron Station. This flow event lasted until 10:50 on 4/18/13. The estimated flowrate was 1000 gallons per minute for a total flow of 800,000 gallons discharged from Outfall 002 for this event. The total amount of discharge from Outfall 002 for the 2 events is 1,003,000 gallons. As required per the permit, an Oil and Grease sample was obtained and analyzed on 4/18/13. The Oil and Grease result was <1.40 ppm which when averaged with the previous result is an average concentration of <1.9 ppm. The Oil and Grease concentration met the 30-day average concentration limit of 15 ppm and the daily maximum concentration limit of 20 ppm listed in the permit.

Page 2 of 2 BYR LTR 2013-0070

File: 2.09.0411 and 1.10.0101

In anticipation of the forecasted rain events Byron Station undertook proactive measures to reduce the water elevation in the Stormwater Runoff Basin by installing an additional pump, to supplement the pumping capacity of the existing installed pumps. Unfortunately the volume of water received overwhelmed the storage capacity of the Stormwater Runoff Basin and the capacity of the installed and supplemental pumping systems. In accordance with the station's NPDES permit on April 18, 2013 the Agency was notified of this Upset event by Mr. Zigmund Karpa, in accordance with Special Condition 11 and Standard Condition 12(f)(2) of the permit. Byron Letter 2013-0057, dated 4/22/13, was sent to the Agency to meet the 5-day follow-up reporting requirement of the permit conditions.

If there are any questions regarding this report, please contact Ms. Zoe Cox, Environmental/Radwaste Supervisor, at (815) 406-3035.

Respectfully,

Benjamin P. Youman

Plant Manager

Byron Nuclear Generating Station

BPY/ZC/eh Attachments

K. Hersey – Environmental – Cantera (electronic) Z. Cox – Chemistry – Byron bcc:

PAGE 1

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station Church Road LOCATION

4430	NOU	n G	em	an	Cnurc
Byror	ı. IL	616	010		

FROM

NATIONAL POLLUTANI	DISCHARGE ELIMINATION STSTEM (NPDES
DISCHARO	GE MONITORING REPORT (DMR)

A01-0 IL0048313 DISCHARGE NUMBER PERMIT NUMBER

MONITORING PERIOD								
MM/DD/YYYY		MM/DD/YYYY						
04/01/2013	то	04/30/2013						

DMR	Mailing	ZIP	CODE:
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61010

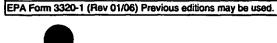
MAJOR

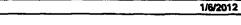
(SUBR 01) CS

DEMINERALIZER REGENERATE WASTE (001A) External Outfail

... NO DISCHARGE

		QUAN	ITITY OR LOADING	G		LUANTITY OR CON	CENTRATIO	N		NO.	FREQUENCY	SAMPLE
PARAMETER			VALUE	импъ	VALUE	VALUE	VALU		UNITS	EX	of Analysis	TYPE
clids, Total Suspended	SAMPLE MEASUREMENT	*****	*****	******	*****	2.8	2.9		19	0	01/30	08
0530 1 0 ffluent Gross	REQUIREMENT			E		15 30DA AVG	30 DAILY I	AX.	mo/L		Monthly	COMP-8
hromium, hexavalent us Cr)	SAMPLE MEASUREMENT	*****	*****	******	*****						500	
1032 1 0 iffluent Gross	REQUIREMENT					30DA AVG	* DAILY		mov.	1	Pally	GRAB
thromium, total as Cr)	SAMPLE MEASUREMENT	*****	425000	504444	400000						500	
1034 1 0 ffluent Gross	BEOUREMENT			100		30DA AVG	DAILY	AX .	mg4.		Dally	GRAB
Copper, total as Cu)	SAMPLE MEASUREMENT	*****	******	*****	*****						500	
1042 1 0 ffluent Gross	BEQUIREMENT		A Print	2.48E		30DA AVG	PALY	X.	mg/L		Daily	GRAB
on, total as Fe)	SAMPLE MEASUREMENT	*****	*****	*****	******	414444					500	
1045 1 0 ffluent Gross	DECUREMENT		7 11 23	1			DAILY	αs	_pot_	1	Daily	GRAB
ead, Total us Pb)	SAMPLE MEASUREMENT	*****	******	*****	44444	<u> </u>					500	
1051 1 0 ffluent Gross	BEQUIREMENT	(CAN C)		PH	A WIND	30DA AVG	A DAILY	(X : Ş	me/	100	PIN	GRAB
ickel, total is Ni)	SAMPLE MEASUREMENT	******	******	*****	*****	ļ					500	
1067 1 0 ffluent Gross	BEOMBEMENT	CARLES				1 SODA AVG	PALY	IX.	I more	4	Dally	GRAB
NAME/TITLE RINCIPAL EXECUTIVE OFFICE	- Improprior or Substablish	in accordance with a s	stem designed to assu	re that qualified	personnel	0	D. /	TE	EPHONE		DATE	
Benjamin P. Youman	properly gather and eval who manage the system information submitted is.	, or those persons dire	ctly responsible for gatl	motni enti gnineri	nation, the	IGNATURE OF PRI		815	406-3700		05/23/2013	
Plant Manager TYPED OR PRINTED	aware that there are sign fine and imprisionment to	nificant penalties for su			possibility of	EXECUTIVE OFFICE AUTHORIZED AC		AREA	NUMBER		MM/DD/YYY	Υ
OMMENTS AND EXPLANA There was no discharge o Flow existed 30 of 30 days	processed steam gen				onth.							





NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DMR Mailing ZIP CODE:

MAJOR

(SUBR 01)

External Outfall

61010

FROM

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

FACILITY

NAME Exelon Generation Co., LLC **ADDRESS** 4300 Winfield Road

Warrenville, IL 60555-5701

Byron Nuclear Power Station

LOCATION 4450 North German Church Road Byron, IL 61010

IL0048313	A01-0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD MM/DD/YYYY MM/DD/YYYY 04/30/2013 04/01/2013 TO

DEMINERALIZER REGENERATE WASTE (001A)

*** NO DISCHARGE

CS

D45.44		QUA	NTTTY OR LOADIN	G		QUANTITY OR CONCENTRATION						FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE		VALU	E	UNITS	EX	X ANALYSIS	TYPE
inc, Total as Zn)	SAMPLE MEASUREMENT	*****	40000	*****	*****							500	
1092 1 0 Iffluent Gross	PEBUIT	PRINCE	1272		14 - 14 - 14 - 14 - 14 - 14 - 14 - 14 -		~ SODA AVG	DAILY.	<u>ا</u> کا	mor		Reily	GRAB
low, in conduit or thru eatment plant	SAMPLE MEASUREMENT	0.057	0.243	3	*****		******	*****		*****	0	01/01	ES
0050 1 0 Iffluent Gross	BEOURENENT SAMPLE MEASUREMENT		Req. Mon.	Mgal/d					X 2			Daily:	CONTIN
	PERMIT PEQUIREMENTS SAMPLE							2.					
	MEASUREMENT PERMIT BECHIBEMENT SAMPLE			` • 1									
M	MEASUREMENT REBUIL BEQUIREMENTS SAMPLE			2.7/						u ša i			177
	MEASUREMENT DERMIT REQUIREMENT SAMPLE MEASUREMENT			10.2		i i					i k		of a house
	REQUIREMENT				2.27.3	7.5							
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision in							•	TE	LEPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system information submitted is,	ute the information su , or those persons din	bmitted. Based on my it ectly responsible for gat	nquiry of the per hering the inform	rson or persons nation, the	SIC	SMAZDIRE OF PER	NCIPLE	815	406-3700		05/23/2013	 I
Plant Manager	aware that there are sign fine and imprisionment for	ificant penalties for su	ubmitting false information	on, including the	possibility of	E	XECUTIVE OFFIC		AREA	INUMBER		MM/DD/YYYY	

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

DCDM	TTCC	MARA	DRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road
Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	B01

IL0048313 B01-0
PERMIT NUMBER DISCHARGE NUMBER

	MONITORING PERIOD										
	MM/DD/YYYY		MM/DD/YYYY								
FROM	04/01/2013	то	04/30/2013								

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01) CS

STP PLANT EFFLUENT (FORMER 001B) External Outfall

*** NO DISCHARGE

VALUE 1.02 5.3 MT. \$00A.AVG. ENT 1.11 ENT 1.11 300A.AVG. 0.012	1.10 10.5 10.5 1.13 10.5	26	7.54 6.		9.5 30 3004 AVG	7.90	(X,\&	UNITS 19 mg/L	0 0	OF ANALYSIS 02/30 Twice Rer Month 02/30	TYPE 24 COMP24 GR
NIT SQDA AVQ	10.5 DALL MX	lvd 	7.54 6.	7. The state of th	30 300 AVG	- 60 DAILY N 7.90	*	mg/l_	0	Twice Per Month	COMP24
300A AVG	1.13		7.54 6. MINIMUM		20DA AVG	7.90	*	12			
ENT 1.11 ENT 30DA AVG	1.13		6. MINIMUM			7.90	*			02/30	GR
1.11 5.3 NO. 300A AVG	L		MINIMUM	(3) (3)		1 00 T	*		- 22		4
1.11 5.3 NO. 5.3 NO. 5						A MAXIMI	M X	, su		Twice Per Month	GRAB
0.012	10.5 DAILYMX			- 1	9.8	11.3		19	0	02/30	24
0.012		D/Q.			30 300A AVG	60 DAILY	αŸ	mo/L	10.	Twice Rer Month	COMP24
	0.016	3	*****		*****	*****		*****	0	01/01	CN
Req. Mon.	Red Mon.	MoaVq.	Name of	54		707				Paly	CONTIN
		2		11.C			13. 14.14				
							30.45°C				And the second
NT											
	Day 5			1							
ision in accordance with a s	system designed to assu	re that qualified	personnel							DATE	
ystem, or those persons dir	ectly responsible for gati	hering the inform	nation, the	Si	SMATURE OF ARIE	COMPLE NCIPLE	815	406-3700		05/23/2013	
re significant penalties for s	ubmitting false informatio			POSSIDINY OF EXECUTIVE OFFICER OR			AREA	NUMBER		MW/DD/YYÝ	
01.47010.40			L		AUTHORIZED AG	ENT	CODE		<u> </u>		
	ENT Alty of law that this documer taken in accordance with a red evaluate the information suystem, or those persons direct is, to the best of my long re significant penalties for a nemt for knowing violations.	ENT No. of law that this document and all attachments we taken in accordance with a system designed to assure devalute the information submitted. Based on my it ystem, or those persons directly responsible for gained is, to the best of my knowledge and belief, true, re significant penalties for submitting take informationent for knowing violations. OLATIONS (Reference all attachments in	ENT Note: The second of the s	ENT Although the state of the	ENT Signature of law that this document and all attachments were prepared under my taken in accordance with a system designed to assure that qualified personnel devalute the information submitted. Based on my inquiry of the person or persons ystem, or those persons directly responsible for gathering the information, the ted is, to the best of my knowledge and belief, true, accurate, and complete. I am re significant penalties for submitting take information, including the possibility of nent for knowing violations. OLATIONS (Reference all attachments here)	ENT Signature the information submitted. Based on my inquiry of the person or persons ystem, or those persons directly responsible for gathering the information, the sed is, to the best of my knowledge and belief, true, accurate, and complete. I am re significant penalties for submitting talse information, including the possibility of nent for knowing violations. OLATIONS (Reference all attachments here)	ENT Signature of law that this document and all attachments were prepared under my taken in accordance with a system designed to assure that qualified personnel devalute the information submitted. Based on my inquiry of the person or persons ystem, or those persons directly responsible for gathering the information, the ted is, to the best of my knowledge and belief, true, accurate, and complete. I am re significant penalties for submitting take information, including the possiblity of nent for knowing violations. SIGNATURE OF FRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT OLATIONS (Reference all attachments here)	ENT Signature of law that this document and all attachments were prepared under my taken in accordance with a system designed to assure that qualified personnel devalute the information submitted. Based on my inquiry of the person or persons ystem, or those persons directly responsible for gathering the information, the led is, to the best of my knowledge and belief, true, accurate, and complete. I am re significant penalties for submitting take information, including the possiblity of nent for knowing violations. CLATIONS (Reference all attachments here)	ENT NEW Comment and all attachments were prepared under my along the information, the devalute the information submitted. Based on my inquiry of the person or persons yetem, or those persons directly responsible for gathering the information, the resignificant penalties for submitting false information, including the possiblity of ment for knowing violations. TELEPHONE SIGNATURE OF FILINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT OLATIONS (Reference all attachments here)	ENT Signature the information submitted. Based on my inquiry of the person or persons ystem, or those persons directly responsible for gathering the information, the led is, to the best of my knowledge and belief, true, accurate, and complete. I am re significant penalties for submitting take information, including the possibility of nent for knowing violations. TELEPHONE 815 406-3700 SIGNATURE OF FRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT CODE OLATIONS (Reference all attachments here)	ENT Self control of the what this document and all attachments were prepared under my ision in accordance with a system designed to assure that qualified personnel devaluate the information submitted. Based on my inquiry of the person or persons of evaluate the information submitted. Based on my inquiry of the person or persons test of submitting factor in the information, the led is, to the best of my knowledge and belief, true, accurate, and complete. I am set information including the possibility of nent for knowing violations. OLATIONS (Reference all attachments here)

ATIONAL	POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES
	DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY **Byron Nuclear Power Station** LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	C01-0
PERMIT NUMBER	DISCHARGE NUMBER
HOUSE	NINO OCCIOO

FROM

	MONITORING PERIOD							
MM/DD/YYYY		MM/DD/YYYY						
04/01/2013	το[04/30/2013						

DMR Malling ZIP CODE:

61010

MAJOR (SUBR 01)

CS

WWTP (FORMER 001C) External Outfall

*** NO DISCHARGE

DADAMETER		QUANTITY OR LOADING QUANTITY OR CONCENTRATION			NO.	FREQUENCY	SAMPLE					
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE		STINU	EX	ANALYSIS	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	1.4	2.4		19	0	02/30	24
00530 1 0 Effluent Gross	REQUIREMENT	****	770	271		15 300A AVG	3Q DAILY MX	() e	mort.		Twice Per Month	COMP34
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	095999	404000	*****	•••••						500	
01032 1 0 Effluent Gross	BEQUIREMENT					300A AVG	DAILY MO		ΠQΔ.		1 Daily	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	227779	*****	*****	******						500	
01034 1 0 Effluent Gross	REQUIBEMENT				W. 200	30DA AVG	J. DAIL Y.M		mo/ ×		A Dary	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	400000	*****	*****						500	
01042 1 0 Effluent Gross	REQUIPEMENT	12 m		1773		30DA AVG	DAILY MX		.pg/		Pary	GRAB
iron, total (as Fe)	SAMPLE MEASUREMENT	*****	*****	*****	******	401500				132	500	
01045 1 0 Effluent Gross	REQUIREMENT.	1	35	T.Z.C.			DAILY MX	À.	mo4		Daly .	GRAB
Lead, total (as Pb) 01051 1 0	SAMPLE MEASUREMENT	401770	******	*****	*****						500	
Effluent Gross	BEQUIREMENT	ELIZ.			4	300A AVG	DAILY MX		mg/L		Paix	GRAB
Nickel, total (as Ni) 0 1067 1 0	MEASUREMENT	*****	******	******	******						500	
Effluent Gross	REQUIREMENT	2377				SODA AVG	DAILY M		mg/L	* .a.w	Park 1	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICE	Imiecrou or arbeiazioni	in accordance with a s	ystem designed to assu	re that qualified	personnel	·		TELEF	PHONE		DATE	
Benjamin P. Youman	properly gather and eval who manage the system information submitted is,	n, or those persons din	ectly responsible for gat	hering the infor	nation, the	Smarker OF PA		815 4	06-3700		05/23/2013	
Plant Manager	aware that there are sign fine and imprisionment to	nificant penalties for su				EXECUTIVE OFFICE AUTHORIZED A		REA N	UMBER		MM/DD/YYY	Y
COMMENTS AND EXPLANA	TION OF ANY VIOLA	TIONS (Reference	e all attachments i	nere)								_
. There was no discharge of		•		-	onth.							
Flow existed through this o	unifoli 20 of 20 days du	ring the mosth	•	_								

2. Flow existed through this outfall 20 of 30 days during the month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.	1/6/2012	PAGE 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

PERMITT		

NAME Exelon Generation Co., LLC ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

 IL00	48313		
PERMIT	NUMBE	ER	

C01-0 DISCHARGE NUMBER

MO	NITORING PERI	OD
MM/DD/YYYY		MM/DD/YYYY
04/01/2013	то	04/30/2013

DMR Mailing ZIP CODE:

61010

(SUBR 01) CS

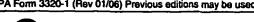
WWTP (FORMER 001C)

External Outfall

MAJOR

*** NO DISCHARGE

PARAMETER		QUANTITY OR LOADING QUANTITY OR CONCENTRATION			NO.		N		NO. FREQUI		SAMPLE	
PARABETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALU	E	UNITS	EX	OF ANALYSIS	TYPE
inc, total as Zn)	SAMPLE MEASUREMENT	*****	*****	*****	*****						500	
1092 1 0 ffluent Gross	REBUT		private in the second	•••••		SODA AVG	2 DAILY N	(X	mg/L	AV Vacer	Daily	GBAB.
low, in conduit or thru eatment plant	SAMPLE MEASUREMENT	0.030	0.053	3	******	*****	*****		******	0	01/01	CN
0050 1 0 Ifluent Gross	REQUIREMENT SAMPLE MEASUREMENT	Beq. Mon. SODA AVG	Fleq. Mon. DAILY MX	MgaVd	June 1	Company of the Compan	***************************************			-	Day	CONTIN
· · · · · · · · · · · · · · · · · · ·	PERMIT SAMPLE											
	MEASUREMENT PERMIT BEQUIREMENT SAMPLE							<u> </u>				200 M
	MEASUREMENT PERMIT BEQUIREMENT SAMPLE									2		
	REQUIREMENT REQUIREMENT SAMPLE					7165254	7	190				
	MEASUREMENT RECHIBEMENTS		1				ote March					
NAME/TITLE RUNCIPAL EXECUTIVE OFFICER	certify under penalty of t direction or supervision in							TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system, information submitted is, it	te the information sub or those persons dire	omitted. Based on my in actly responsible for gath	nquiry of the per hering the inform	son or persons	Some OF PRI	NO PLE	815	406-3700		05/23/2013	
Plant Manager	aware that there are signi line and imprisionment for	ificant penalties for su				EXECUTIVE OFFIC		AREA	NUMBER			
TYPED OR PRINTED					1	AUTHORIZED AG	ENT	CODE	unery		MM/DD/YYY	•



NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

DEDL	ATTEE	NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FROM

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	D01-0

PERMIT NUMBER DISCHARGE NUMBER

MONITO	RING	PERIOD
MM/DD/YYYY		MM/DD/YYYY
04/01/2013	то	04/30/2013

DMR Mailing ZIP CODE:

AL CORE

61010

MAJOR (SUBR 01)

CS

RADWASTE TREATMENT (FORMER 001D) External Outlail

···NO DISCHARGE ...

SAMPLE ASUREMENT	VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
SUREMENT	*****	*****	~~~~				T			
	. '	,		*****	<0.5	<0.5	19	0	02/30	СР
PERMIT		7114		a um	15 LASODA AVG	DAILY MX	mo/L	T. delia	Twice Ber Month	COMPOS
SAMPLE ASUREMENT	0.022	0.023	3	*****	******	44444	*****	0	01/01	CN
DUIREMENT	Fleg Man \$30DA.AVG	Beg. Mon.	MgaVo		200		1.11	1	Paly	CONTIN
SUREMENT										.,
QUIREMENT				COLUMN TO A SECOND	4 2 30			Ç.		1
SUREMENT									- 1 C C - 1 C C C C C C C C C C C C C C	,
QUREMENT.	See E.		110.10						6 6	A Day
SUREMENT	a to Marin a constitution	17 5	Side Sara	A STORY LINE TO THE SECOND		To said Since	780° 3° 19.	in Partie	S NO MACAGINA	
DUREMENT. SAMPLE				with a second						A Long Land
SUREMENT PERMIT	A Security State	grigory and the College		N ight (a Teach)			74.			
SAMPLE		Tab Sanda				LANGE OF STREET	riote Carlo	HARRY.		The second
REBWIT		1900 1942 1953								12.7
under penalty of k	aw that this document accordance with a s	it and all attachments wi	ere prepared un	der my personnel			LEPHONE		DATE	
ly gather and evalu anage the system,	ite the information sub or those persons dire	brnitted. Based on my in actly responsible for gath	nquiry of the per hering the inform	son or persons nation, the	GNATURE OF PRI	Chunes 815	406-3700		05/23/2013	
that there are signi	ificant penalties for su			411 March 1 M 11	EXECUTIVE OFFIC	ER OR AREA	INUMBER		MM/DD/YYY	Y
E ANY VIOLAT	TONS (Beference	e ell ettechmente h	em)	<u>_</u>	AUTHORIZED AC	aciti (CODI	-			
	SAMPLE ASUREMENT REPUT WIREVENT SAMPLE ASUREMENT REPUT SUREMENT SAMPLE ASUREMENT REGINT	SAMPLE ASUREMENT REGION	SAMPLE SUREMENT REGIMINATION RE	SAMPLE SUREMENT REALLY AND BROWN MON. PARTY AND DALLY MY SAMPLE SUREMENT REALLY AND DALLY MY SAMPLE SUREMENT REALLY AND SAMPLE S	SAMPLE SUREMENT SODA AVG: DAILY MX BERNIT SUREMENT BERNIT BERNIT SUREMENT BERNIT	SAMPLE SUREMENT REGIMENT REGIM	SAMPLE SUREMENT PRO_MON DALYM DALYM SAMPLE SUREMENT REPAIT REPA	SAMPLE SUBSEMENT O.022 O.023 3 ****** ***** ***** ***** **** ****	SAMPLE SURPEMENT PRO-MORE REALLY MAX DAMPLE SURPEMENT SURPEMENT REALLY UNDEFMENT SURPEMENT REALLY SURPEMENT	

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) **DISCHARGE MONITORING REPORT (DMR)**

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC **ADDRESS** 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY LOCATION

Byron Nuclear Power Station
4450 North German Church Road
Ryma II 61010

IL0048313	
PERMIT NUMBER	

FROM

E01-0	
DISCHARGE NUMBER	

MONITORING PERIOD							
M/DD/YYYY		MM/DD/YYYY					
04/01/2013	то	04/30/2013					

DMR Mailing ZIP CODE:

MAJOR

(SUBR 01)

STORMWATER (FORMER 001E) External Outfall

CS

... NO DISCHARGE

61010

PARAMETER		QUAI	NTTTY OR LOADING	G	QUANTITY OR CONCENTRATION				I NO I	FREQUENCY OF	SAMPLE
PARAMEIER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	STINU	EX	ANALYSIS	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	*****	444**	20000	212470					500	
00530 1 0 Effluent Gross	REQUIREMENT	THE STATE				15 SODA AVG	DAILY MX.	_gg4.	. in 1.	Weekly	GBAB
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	28.7	57.2	19	0	01/07	GR
00530 8 0 Other Treatment, Process Complete	BEOMBENENE.			V = 1/2		30 30 30 30	100 PA				CHAR
Chromium, hexavalent as Cr)	SAMPLE MEASUREMENT	*****	*****	45888	899948					500	
)1032 1 0 Effluent Gross	BERMIT	A MARINE	KO PRE-			30DA AVG	DAILY MX	. P94		Daily	GRAB
Chromium, total as Cr)	SAMPLE MEASUREMENT	*****	994977	*5****	*****					500 3	
01034 1 0 Effluent Gross	BEOWREMENT		1.29			30DA AVG	DAILY MX	7004	1	Daily 1	A GRAB
Copper, total as Cu)	SAMPLE MEASUREMENT	*****	*****	440400	*****					500	
11042 1 0 Effluent Gross	PERMIT !	THE PARTY OF		247	A STUDY	SODA AVG	E DAIL MANAGE	mod \$		Delly 1	GRAB
ron, total as Fe)	SAMPLE MEASUREMENT	*****	*****	47000	*****	*****				500	
11045 1 0 Effluent Gross	PERMIT	4.00		SAN T	Section 1		DAILY MX		1	Paly	GRAB
ead, total as Pb)	SAMPLE MEASUREMENT	*****	******	*****	******					500	
11051 1 0 Effluent Gross	REQUIREMENT	447)			Same.	2 300A AXG	RAILY MX	mg/L	7.4	Palk	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision i	n accordance with a s	ystem designed to assu	ne that qualified	personnel	Λ·	TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system information submitted is,	, or those persons din	actly responsible for gati	hering the inform	nation, the	SMATURE OF PER	RCIPLE 815	406-3700		05/23/2013	
Plant Manager	aware that there are sign fine and imprisionment to	nificant penalties for su				EXECUTIVE OFFIC	ER OR AREA	NUMBER		MM/DD/YYY	~

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- 1. There was no discharge of processed steam generator chemical cleaning wastewater during the month.
- 2. Flow existed through this outfall 15 of 30 days during the month.
- 3. Fire Protection drain water was discharged this month

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/8/2012

NAT

IONAL	POLLUTANT D	ISCHARGE EL	MINATION	SYSTEM (NPDE
	DISCHARGE	MONITORING	REPORT (F	MR\	

E01-0

DISCHARGE NUMBER

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC 4300 Winfield Road **ADDRESS**

Warrenville, IL 60555-5701

FACILITY **Byron Nuclear Power Station** LOCATION 4450 North German Church Road Byron, IL 61010

,				
	MO	NITORING PI	ERIOD	_
	MM/DD/YYYY		MM/DD/YYYY	
244	04/01/2013		04/30/2013	

IL0048313

PERMIT NUMBER

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01) CS

STORMWATER (FORMER 001E)

External Outfall

*** NO DISCHARGE

ATTN: Zoe Cox/ENV SPEC		QUAI	NTITY OR LOADING	G		NUANTITY OR CON	CENTRATION	1	NO. FREQUENCY		SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	ANALYSIS	TYPE
Nickel, total (as Ni)	SAMPLE MEASUREMENT	*****	******	44000	500489					500	
D1067 1 0 Effluent Gross	BEQUIREMENT	S				30DA AVG	MATTAN S	x mg/		Daily	GRAB
Zinc, total (as Zn)	SAMPLE MEASUREMENT	*****	*****	******	*****				<u> </u>	500	<u></u>
01092 1 0 Effluent Gross	REQUIREMENT		TPU .			30DA AVG	DAILYM	V 1994		DED S	GBAB.
Flow, in conduit or thru reatment plant	SAMPLE MEASUREMENT	0.564	1.701	3	*****	*****	******	*****	0	02/30	CN
50050 1 0 Effluent Gross	REQUIREMENT	Reg. Mon.	Reg. Mon.	Moe/d.		12.02	-		13%	Twice Per Month	СОИТИ
	SAMPLE MEASUREMENT										
	REPUIT		10 m	Trees.		122					
	SAMPLE MEASUREMENT				7		A LESS		3.3	a 15 7 1 2 1 1 1	
	BEQUIRENENT SAMPLE					144	344				1
	MEASUREMENT PERMIT	Salar a star	A communication		**************************************	The description of	a complete the			20 A 20 A 20 A 20 A	i de a ve
	BEQUIREMENT			3 1			233				
	MEASUREMENT	anis Figure 1 al est		ากรถางในวา	a Kristova Artis	Significant	n kurikalis		1		1.5000
NAME/TITLE	REQUIREMENT		t and all attachments w		rier my	Taken a	200	TEL EDUONE			ROLL
PRINCIPAL EXECUTIVE OFFICER	direction or supervision in property gather and eval	in accordance with a s	ystem designed to assu	re that qualified	personnel	0: 2	,,	TELEPHONE	 	DATE	
Benjamin P. Youman	who manage the system information submitted is,	n, or those persons din	actly responsible for gati	hering the infor	nation, the	IGNATURE OF PRI	HCIPLE	815 406-3700	'	05/23/2013	i
Plant Manager	aware that there are signifine and imprisionment f	nificant penalties for su				EXECUTIVE OFFIC	ER OR	AREA NUMBER		MM/DD/YYY	
TYPED OR PRINTED		- demand and and				AUTHORIZED AC	3ENT	CODE			

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- 1. No Closed Cooling System Drain Water was discharged this month.
- 2. Service Water System drain water was discharged this month.
- 3. No Turbine Building Fire and Oil Sump or Generic Non-Chemical Cleaning wastewater was discharged this month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) **DISCHARGE MONITORING REPORT (DMR)**

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

IL004	8313	
PERMIT	NUMBER	

001-0 DISCHARGE NUMBER

MONITORING PERIOD							
MM/DD/YYYY		MM/DD/YYYY	_				
04/01/2013	то	04/30/2013					

DMR Mailing ZIP CODE:

61010

MAJOR (SUBR 01)

CS

COOLING SYSTEM BLOWDOWN

External Outfall

*** NO DISCHARGE

PARAMETER		AUD	NTTTY OR LOADING	G		QUANTITY OR CON	NO. FREQUENCY		SAMPLE		
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	ANALYSIS	TYPE
emperature, water deg. ahrenheit	SAMPLE MEASUREMENT	*****	*****	*****		*****	82.8	15	0	01/01	CN
0011 1 0 Effluent Gross	BEQUIBENEND		T. EW.			TOTAL TO	Req. Mon.	deg F		Paily .	CONTIN
Н	SAMPLE MEASUREMENT	******	*****	*****	8.48	991949	8.70	12	0	01/07	GR
0400 1 0 Effluent Gross	PERMIT	1			MINIMUM		MAXIMUM	y su∌	***	Weekly	GRAB
iolids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	10.9	11.1	19	0	01/30	GR
00530 1 0 Effluent Gross	REPUIREMENT		C. Marie			Req. Mon. 30DA AVG	Fleq. Mon.	mg/L		Monthly	GRAB.
Oil & Grease	SAMPLE MEASUREMENT	*****	*****	10000	*****	<1.4	<1.4	19	0	01/07	GR
20556 1 0 Effluent Gross	REQUIREMENT	2 # 17 · S				15. 300A AVG	ZO ZO	pod	4	Weekly	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.011	19	0	01/07	GR
01034 1 0 Effluent Gross	REQUIREMENT	118	A Ewisia	C WITE			DAIL X MX	in Smoy &		Weekly :	
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	*****	*****	******	*****	0.028	19	0	01/07	GR
01042 1 0 Effluent Gross	REQUIREMENT	A WIT			A PIN		0.071 - DAILY MX	g mod		Weekly	GRAB
Zinc, total (as Zn)	SAMPLE MEASUREMENT	*****	******	*****	*****	0.015	0.046	19	0	01/07	GR
)1092 1 0 Effluent Gross	REQUIREMENT	S CHUR	1. 7 	and i		213 300A AVG	433 T. DAILY MX	mo4	3	Weekly	QRAR.
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	i certify under penalty of direction or supervision i		t and all attachments w					TELEPHONE		DATE	
Benjamin P. Youman	properly gather and evail who manage the system information submitted is	ute the information sul , or those persons din	bmitted. Based on my bactly responsible for gat	nquiry of the per hering the inform	rson or persons mation, the	GNATURE OF PRI		15 406-3700		05/23/2013	· ·
Plant Manager	aware that there are signifine and imprisionment for	rificant penalties for su				EXECUTIVE OFFIC	• –	REA NUMBER		MM/DD/YYY	<u> </u>
TYPED OR PRINTED	<u> </u>					AUTHORIZED AC	ENT C	DDE	<u> </u>		<u> </u>
OMMENTS AND EXPLANATE Monitoring data for outfall 0			au attachments h	iere)							
PA Form 3320-1 (Rev 01/06)	Previous editions ma	ny ho used								1/6/2012	PAGE



NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/AD	DDESS

NAME Exelon Generation Co., LLC **ADDRESS** 4300 Winfield Road

Warrenville, IL 60555-5701

FROM

FACILITY **Byron Nuclear Power Station** LOCATION 4450 North German Church Road

Byron, IL 61010 ATTN: Zoe Cox/ENV SPEC

iL0048313	001-0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD							
MM/DD/YYYY		MM/DD/YYYY					
04/01/2013] TO[04/30/2013					

DMR Mailing ZIP CODE: MAJOR

61010

(SUBR 01)

CS

COOLING SYSTEM BLOWDOWN

External Outfall

*** NO DISCHARGE

		QUANTITY OR LOADING			C	QUANTITY OR CONCENTRATION				NO.	NO FREQUENCY	
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	.	UNITS	EX	OF ANALYSIS	SAMPLE TYPE
xidants, total residual	SAMPLE MEASUREMENT	*****	*****	*****	404400	492400	0.04		19	0	01/07	GR
4044 1 0 ffluent Gross	REQUIREMENT	A STATE OF THE STA		BLA1	A PROPERTY OF		95 PALY N		mal	. 44.6	Weekly	GRAB
riority pollutants total effluent	SAMPLE MEASUREMENT	******			*****	494494					500	
0008 1 0 ffluent Gross	PERMIT	Tana	Req. Mon. DAILY MX	IÞ/q	(¥2.000)		Req. Mo		0001		Weekly	GRAB
low, in conduit or thru eatment plant	SAMPLE MEASUREMENT	15.77	24.65	3	*****	******	*****		*****	0	01/01	CN
0050 1 0 ffluent Gross	BEQUIREMENT	HODA MOD	Req. Mon.	Make			T. CHILL			2.5	A a Pally	CONTIN
hlorine, total residual	SAMPLE MEASUREMENT	******	*****	*****	*****	*****					500	
0060 1 0 filuent Gross	BEOUBENENT					1.4.4	05 PAILY M	X	,n ₉ /1		Weekly	GRAB
ydrazine	SAMPLE MEASUREMENT	*****	*****	*****	*****						500	
1313 1 0 filuent Gross	REQUIBEMENT SAMPLE MEASUREMENT		200	Arms	ANT .	.011 30DA AVG.	OST DAILY M	X	Empt.		Qally When. Discharging	GRAB
	REPMIT BEQUIREMENT SAMPLE MEASUREMENT					We also de la Constitución de la						
	BEQUIREMENT		14.2 Garage		Strong a ge				- 3			
RINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision is	n accordance with a sy	ystem designed to assu	re that qualified	personnel	0 . 2		TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation who manage the system, information submitted is,	ute the information sut , or those persons dire	omitted. Based on my in actly responsible for gath	rquiry of the per rering the inform	son or persons nation, the	IGNATURE OF PRI		815	406-3700		05/23/2013	
			ibmitting false informatio			EXECUTIVE OFFICE AUTHORIZED AC		AREA CODE	NUMBER		MM/DD/YYY	Y

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

PERMIT	TCC	AI A		40	DECC
PEHMI	I I EE	NA	ME/	AUI	リHEろろ

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY **Byron Nuclear Power Station** LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313
PERMIT NUMBER

04/01/201

FROM

	002-0)	
DISC	HARGE N	NUMBER	

MON	NITORING	PERIOD
MM/DD/YYYY	1	MM/DD/YYYY
04/01/2013	то	04/30/2013

DMR	Mailing	ZIP	CO	DE
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MAJOR

(SUBR 01) CS

STORMWATER RUNOFF BASIN

External Outfall

*** NO DISCHARGE

61010

		QUANTITY OR LOADING			0	QUANTITY OR CONCENTRATION				NO. FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
Solids, Total Suspended	SAMPLE MEASUREMENT	***	*****	*****	*****					500	
00530 1 0 Effluent Gross	REQUIREMENT	A AND IN	on September 1	1	A Torre	SODA AVG	DAILY MX	mo/L		W Weekly	S GRAB
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	*****	*****	******	197	198	19	2	01/07	GR
00530 8 0 Other Treatment, Process Complete	RERMIT TO					30 300A AVQ	DAILY MX	s net		Weekly	GHAR
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01032 1 0 Effluent Gross	REQUIREMENT	STATE A				.011 SODA AVG	016 A DAILY MX	made		Paly .	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	****	40000	******	488999					500	
01034 1 0 Effluent Gross	BEOUIREMENT	7. 227	100			230DA AVG	DALX MX	mol	,	Daily	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	******	*****	t*****					500	
D1042 1 0 Effluent Gross	BEQUIREMENT					025 30DA AVG 2	Q41	mo4.		NA Palvice	GRAB
lron, total (as Fe)	SAMPLE MEASUREMENT	*****	95888	*****	999494	*****				500	
01045 1 0 Effluent Gross	BEQUIREMENT	Te Aler	No. 11	C. B.			DAILY MX	mg/L	o.	A. Par	GRAD
Lead, total (as Pb)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
D1051 1 0 Effluent Gross	BEQUIREMENT	A HIM)		.063 SODA AVG	298 CALYMX	DOAL.		- Deliv	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision is	n accordance with a s	ystem designed to assu	re that qualified	personnel	0.0	TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system. information submitted is,	, or those persons dire	ectly responsible for gatt	hering the inform	nation, the	GNATUJE OF PRI	RCIPLE 815	406-3700		05/23/2013	
Plant Manager TYPED OR PROVIDED	aware that there are sign line and imprisionment for	nificant penalties for su			on-poor (all	EXECUTIVE OFFIC	ER OR AREA	NUMBER		MM/DD/YYY	Υ

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- 1. No Turbine Building Fire and Oil Sump or Generic Non-Chemical Metal Cleaning Wastewater was discharged this month.
- 2. Fire Protection and Service Water System Drain Water was discharged this month.
- 3. No Closed Cooling System Drain Water was discharged this month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012





NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

DEQL	KTTEE	MAME	ANNE	-00

ATTN: 700 COY/ENV SPEC

NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road

Warrenville, II 60555-5701

FACILITY Byron Nuclear Power Station

LOCATION 4450 North German Church Road

Byron,	ŧL	61	010
--------	----	----	-----

2,00,02,02	
IL0048313	002-0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD								
MM/DD/YYYY		MM/DD/YYYY	_					
04/01/2013	7 10	04/30/2013	_					

DMR	Mailing	ZIP	CODE:

MAJOR (SUBR 01)

CS

61010

STORMWATER RUNOFF BASIN External Outfall

*** NO DISCHARGE

PARAMETER		QUANTITY OR LOADING				QUANTITY OR CON	CENTRATION	NO.	FREQUENCY	SAMPLE	
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
Nickel, total as Ni)	SAMPLE MEASUREMENT	*****	*******	*****	*****					500	
01067 1 0 Effluent Gross	REQUIREMENT	SWITE	Lini	173	2 4 P	.011 .30DA AVG	DAILY MX	mod		Daily	GRAB
Zinc, total as Zn)	SAMPLE MEASUREMENT	*****	******	*****						500	
01092 1 0 Effluent Gross	BEQUIREMENT	St. Jum	yen .			.047 30DA AVG	. DALYMX	men.	i di	Daily	GRAB
Oil and Grease	SAMPLE MEASUREMENT	20000	*****	******	*****	<1.9	2.3	19	0	DL/DS	GR
03582 1 0 Effluent Gross	REQUIREMENT.		3 2 W 32	WD.		300A AVQ	DAILY MX	mod.		When Discharping.	GRAB
Flow, in conduit or thru reatment plant	SAMPLE MEASUREMENT	0.503	0.650	3	*****	182500	*****	*****	0	DL/DS	ES
60050 1 0 Effluent Gross	BEOUBENENT	Reg. Mon. # 30DA AVG	Req. Mon.	MgaVd		THE STATE OF	of the	· Property	1	When Discharging	ESTIMA
	SAMPLE MEASUREMENT			,							
	BEQUIREMENT				70.2.3		Walls.				
	SAMPLE MEASUREMENT		·					<u> </u>			
	REQUIREMENT		12 322	100			14.2			****	
	SAMPLE MEASUREMENT		1 7								
	REQUIBEMENT				W. Carrie	235			3		
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision i	n accordance with a s	ystem designed to assu	ne that qualified	personnel	$\sim \sim 1$		ELEPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system information submitted is,	, or those persons dire	actly responsible for gati	nering the inform	nation, the	SIGNATURE OF PRI	NOTPLE 61	5 406-3700		05/23/2013	
Plant Manager	aware that there are sign fine and imprisionment to	ificant penalties for su				EXECUTIVE OFFIC	ER OR ARE	INUMBER		MM/DD/YYY	Υ
TYPED OR PRINTED						AUTHORIZED AC	GENT COL		<u> </u>		

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- 1. Flow existed through this outfall 2 of 30 days during the month.
- 2. There was no discharge of processed steam generator chemical cleaning wastewater during the month.

FROM

3. Upset defense used for TSS concentration exceeding limits. See DMR cover sheet for additional details.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

ATTACHMENT TO COOLING SYSTEM BLOWDOWN (Outfall 001-0) DISCHARGE MONITORING REPORT

For Exelon Byron Station Permit IL0048313 April 2013 Page 1 of 2

MONITORING DATA:

MONITORING	MONITORING DATA:										
DATE	CWBD Temperature deg F	CWBD Flow mgd	Rock River Flow cfs								
04/01/2013	74.1	14.27	12,800								
04/02/2013	78.2	21.11	12,900								
04/03/2013	78.2	17.82	12,900								
04/04/2013	82.7	18.58	13,000								
04/05/2013	82.7	20.82	12,900								
04/06/2013	82.6	24.65	12,900								
04/07/2013	82.8	15.29	12,700								
04/08/2013	73.7	14.96	12,500								
04/09/2013	73.3	19.13	12,900								
04/10/2013	70.4	18.74	14,900								
04/11/2013	68.4	20.40	17,600								
04/12/2013	67.2	22.95	19,800								
04/13/2013	59.8	20.09	20,200								
04/14/2013	72.6	24.15	19,900								
04/15/2013	72.6	11.69	20,000								
04/16/2013	68.5	11.35	19,900								
04/17/2013	62.4	10.82	21,000								
04/18/2013	70.0	11.90	31,800								
04/19/2013	70.0	14.63	39,000								
04/20/2013	59.7	13.53	39,800								
04/21/2013	63.8	13.10	36,800								
04/22/2013	68.7	11.87	33,200								
04/23/2013	73.9	12.36	30,600								
04/24/2013	67.3	13.45	28,400								
04/25/2013	67.3	11.94	26,500								
04/26/2013	68.1	13.48	24,700								
04/27/2013	70.2	13.40	23,100								
04/28/2013	70.2	10.63	21,800								
04/29/2013	73.6	11.63	20,700								
04/30/2013	81.1	14.43	19,500								

ATTACHMENT TO COOLING SYSTEM BLOWDOWN (Outfall 001-0) DISCHARGE MONITORING REPORT

For Exelon Byron Station
Permit IL0048313
April 2013
Page 2 of 2

HYDRAZINE MONITORING:

There were no steam generator chemical cleaning solutions (or associated rinses) containing hydrazine discharged to the Cooling System Blowdown during the month of April 2013.

TOTAL QUANTITY DISCHARGED: N/A

TOTAL DURATION OF DISCHARGE: N/A

COMMENTS:

- 1. Sodium Hypochlorite and Bromine compounds were used this month.
- 2. There was no discharge of steam generator chemical cleaning wastewater containing hydrazine in this month.
- 3. Flow existed through this outfall 30 of 30 days.
- 4. Per Special Condition 24 the influent from the Rock River and effluent from Outfall 001-0 was monitored for Total Suspended Solids (TSS) this month. The Rock River TSS value was 38.1 mg/L on 04/08/2013. The CWBD TSS value was 11.1 mg/L on 04/08/2013.
- 5. Rock River flow for April 2013 was >2400 cfs therefore daily temperature calculations were not required this month. (Special Condition 12).
- 6. There was no discharge of the 126 Priority Pollutants from cooling tower maintenance chemicals in April 2013. (Special Condition 15).



Exelon Generation Company, LLC .
Byron Station
4450 North German Church Road
Byron, IL 61010-9794

www.exeloncorp.com

Nuclear

June 21, 2013

LTR: BYRON 2013-0082

File: 2.09.0411

1.10.0101

Illinois Environmental Protection Agency Water Pollution Control Compliance Assurance Section #19 1021 North Grand Avenue East P.O. Box 19276 Springfield, IL 62794-9276

Subject: Byron Station Monthly Discharge Monitoring Report

In accordance with National Pollutant Discharge Elimination System (NPDES) Permit Number IL0048313, issued January 24, 2011, we are submitting the Discharge Monitoring Report for Byron Station, Units 1 and 2. This report covers the period of May 1, 2013 through May 31, 2013.

If there are any questions regarding this report, please contact Ms. Zoe Cox, Environmental/Radwaste Supervisor, at (815) 406-3035.

Respectfully.

Benjamin P. Youman

Plant Manager

Byron Nuclear Generating Station

BPY/ZC/eh Attachments bcc: Kevin Hersey – Sr. Environmental Specialist – Cantera (electronic) Zoe Cox – Environmental/Radwaste Supervisor – Byron





PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

	IL0048313
ρ	ERMIT NUMBER

	A01-0	
DIS	CHARGE N	UMBER

	MONT	ORING	PERIOD
	MM/DD/YYYY		MM/DD/YYYY
FROM	05/01/2013	ТО	05/31/2013

MR	Maliina	ZIP	CODE:

61010

MAJOR

(SUBR 01) CS

DEMINERALIZER REGENERATE WASTE (001A) External Outfall

*** NO DISCHARGE

1/6/2012

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION						FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE		UNITS	EX	OF ANALYSIS	TYPE
iolids, Total Suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	1.6	2.1		19	0	01/30	08
0530 1 0 Iffluent Gross	REQUIREMENT	******	******	******	******	15 30DA AVG	30 DAILY M	0X	mg/L		Monthly	СОМР-
hromium, hexavalent is Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****						500	
1032 1 0 Huent Gross	REQUIREMENT	prome	ecefee	appere.	******	30DA AVG	PAILY M	IX.	mg/L		Daily	GRAB
hromium, total us Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****						500	
1034 1 0 Iffluent Gross	PERMIT REQUIREMENT	11 P	*****	******	******	2 SODA AVG	2 DAILY N		mg/L		Daily	GRAB
opper, total as Cu)	SAMPLE MEASUREMENT	*****	*****	*****	*****						500	
1042 1 0 Effluent Gross	PERMIT REQUIREMENT	****		******	********	30DA AVG	DAILY	ıχ	mg/L		Daily	GRAB
on, total is Fe)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****					500	
11045 1 0 Effluent Gross	PERMIT REQUIREMENT	40.044	40000	******	*****	******	DAILY N	ιχ	ù ð √		Daily	GRAB
ead, Total as Pb)	SAMPLE MEASUREMENT	*****	*****	*****	*****						500	
1051 1 0 ffluent Gross	PERMIT REQUIREMENT	*****	ecosts (*)	**************************************	essess.	.2 30DA AVG	DAILY N	ΙX	mg/L		Daily	GRAB
ickel, total is Ni)	SAMPLE MEASUREMENT	*****	******	*****	*****						500	
11067 1 0 Effluent Gross	PERMIT REQUIREMENT	engagen en e	anness.	90000	**************************************	30DA AVG	DAILY N	ŧΧ	mg/L		Daily	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICE	I certify under penalty of direction or supervision is							TEL	EPHONE		DATE	
Benjamin P. Youman	property gather and evaluation who manage the system	direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and befief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisionment for knowing violations.			rson or persons nation, the	SIGNATURE OF RINCIPLE			406-3700	06/21/2013		
Plant Manager	aware that there are sign				cuthers can l				NUMBER			
OMMENTS AND EXPLANA There was no discharge of Flow existed 31 of 31 days	processed steam gen				onth.							

FROM

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

MITTEE		

NAME Exelon Generation Co., LLC ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

replacement totalizers and get them installed in the system.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

FACILITY **Byron Nuclear Power Station** LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	A01-0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD MM/DD/YYYY MM/DD/YYYY 05/01/2013 05/31/2013 TO

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01) CS

DEMINERALIZER REGENERATE WASTE (001A)

External Outfall

*** NO DISCHARGE

1/6/2012

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION						NO. FREQUENCY	SAMPLE	
		VALUE	VALUE	UNITS	VALUE	VALUE	VALU		UNITS	EX	OF ANALYSIS	TYPE	
Zinc, Total (as Zn)	SAMPLE MEASUREMENT	*****	*****	*****	696650						500		
01092 1 0 Etfluent Gross	PERMIT REQUIREMENT		QUARTS	ecour. C.C. U	******	30DA AVG	DAILY N		mg/L		Daily	GRAB	
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.057	0.243	3	******	*****	*****		*****	0	01/01	ES	
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. 30DA AVG	Req. Mon, DAILY MX	MgaVd	40,000	******	******		******		Daily	CONTIN	
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			- 1 tv						
	SAMPLE MEASUREMENT												
	REQUIREMENT						- 44 B					· ,	
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT			. Pr							F 4		
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT								e e construir		3		
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision i				nerronnol A			TELEPHONE		DATE			
Benjamin P. Youman	properly gather and evaluation manage the system information submitted is.	ute the Information aut , or those persons dire	omitted. Besed on my lactly responsible for get	nquiry of the per hering the inform	reon or persons nation, the	Smart RE OF PR	MCIPLE	815	406-3700		06/21/2013		
Plant Manager	aware that there are sign	vilicant penalties for au				EXECUTIVE OF	,	AREA	NUMBER		MANDOWY		
TYPED OR PRINTED	line and imprisionment for knowing violations.				AUTHORIZED AGENT CODE				·	R MM/DD/YYYY			

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

MONITORING PERIOD

TO

IL0048313

PERMIT NUMBER

MM/DD/YYYY

05/01/2013

FROM

36	드니	IMIIIA	MII	UN	31	31	(IAL	DES	,
911	10	DEC	and	T /	NM	D١			

B01-0

DISCHARGE NUMBER

MM/DD/YYYY

05/31/2013

DMR Mailing ZIP CODE: 61010

MAJOR

CS

(SUBR 01)

External Outfall

STP PLANT EFFLUENT (FORMER 001B)

• • NO	DISCHARGE	

NAME Exelon Generation Co., LLC ADDRESS 4300 Winfield Road

PERMITTEE NAME/ADDRESS

Warrenville, IL 60555-5701

FACILITY **Byron Nuclear Power Station** LOCATION 4450 North German Church Road

		QUAI	NTITY OR LOADING	G	(QUANTITY OR CON	CENTRATIC	Ж		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALU	Έ	UNITS	EX	OF ANALYSIS	TYPE
8OD, 5-Day (20 Deg. C)	SAMPLE MEASUREMENT	0.49	0.53	26	*****	12.5	16.0	,	19	0	02/30	24
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	5.3 30DA AVG	10.5 DAILY MX	lp/d		30 30DA AVG	60 DAILY	MX	mb√_		Twice Per Month	COMP24
ρH	SAMPLE MEASUREMENT	******	*****	*****	7.53	*****	7.80	,	12	0	02/30	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*******	******	*****	6 MINIMUM	equies .	9 MAXIM	UM	şụ		Twice Per Month	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	0.15	0.18	26	*****	2.8	3.6		19	0	02/30	24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	5.3 30DA AVG	10.5 DAILY MX	ib/d		30 30DA AVG	60 DAILY		mg/L	13 1 N	Twice Per Month	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.006	0.011	3	*****	******	****	•	*****	0	01/01	CN
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. 30DA AVG -	Req. Mon. DAILY MX	MgaVd	*****	******	******	,	RESOUR		Daily	CONTIN
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT	:			:			,		<u> </u>		
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	SAMPLE MEASUREMENT										3	
	PERMIT REQUIREMENT			va est	, See .		10 mg					
	SAMPLE MEASUREMENT											
<u></u>	PERMIT REQUIREMENT								an r	*		
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision in		nt and all attachments w					TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system.	lute the information sub n, or those persons dire	ibmitted. Based on my in actly responsible for gat	inquiry of the per thering the inform	mation, the	SIGNATURE OF PRO	den	815	406-3700		06/21/2013	
	information submitted is, aware that there are sign	nificant penalties for su				EXECUTIVE OFFIC		AREA	NUMBER		MM/DD/YYY	
Plant Manager	fine and imprisionment to					AUTHORIZED AG	ACME	CODE	RUMBER	i		T

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS				
	41776	818845	'/A CO CO	

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	_
PERMIT NUMBER	_

MM/DD/YYYY

05/01/2013

FROM

C01-0	
DISCHARGE NUMBER	

MONITORING PERIOD MM/DD/YYYY то 05/31/2013

DMR	Mailing	ZIP	CODE
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MAJOR CS (SUBR 01)

WWTP (FORMER 001C) External Outfall

*** NO DISCHARGE

1/6/2012

PAGE 1

61010

PARAMETER		QUAI	NTTTY OR LOADING	3		DUANTITY OR CON	CENTRATIO	IN		NO.	FREQUENCY	SAMPLE
PANAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALU	E	UNITS	EX	OF Analysis	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	******	******	*****	******	8.2	12.4		19	0	02/30	24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	groppo (*****	500000	2000	15 30DA AVG	30 DAILY N	νX	mg/L		Twice Per Month	COMP2
Chromium, hexavalent as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	90000						500	
D1032 1 0 Effluent Gross	PERMIT REQUIREMENT	Anness No. 10 Mars		******	70 (2009) 20 (2009)	30DA AVG	2 DAILY N	ΝX	mg/L		Daily	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	******	*****	******						500	
01034 1 0 Effluent Gross	PERMIT REQUIREMENT	(a) (1986) (b)	******	**************************************	000000	30DA AVG	DAILY N		mg/L		Daily	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	******	******	*****	*****						500	
01042 1 0 Effluent Gross	PERMIT REQUIREMENT	800000	******	S 8999	*******	.5 30DA AVG	DAILY N	ACX	mg/L	•.	Daily	GRAB
ron, total (as Fe)	SAMPLE MEASUREMENT	*****	******	*****	*****	*****					500 3	
01045 1 0 Effluent Gross	REQUIREMENT	******	*****	400400	*****	******	1 DAILY	νX	mg/L		Daily	GRAB
Lead, total (as Pb)	SAMPLE MEASUREMENT	******	*****	*****	*****						500	
D1051 1 0 Effluent Gross	PERMIT REQUIREMENT	*******	*******		Company of the second	30DA AVG	A DAILY N		mg/L		Daily	GRAB
Vickel, total as Ni)	SAMPLE MEASUREMENT	*****	******	*****	*****						500	
D1067 1 0 Effluent Gross	PERMIT REQUIREMENT	*******	g to green of the	777	*****	SODA AVG	DAILY N	AX :	mg/L		Daily	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision b	n accordance with a s	ystem designed to essu	re that qualified	personnel	- 12.		TEI	EPHONE		DATE	
Benjamin P. Youman	properly gather and evalute the information submitted. Based on my inquiry of the person or per who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.				nation, the	SIGNATURE OF PRINCIPLE		815	406-3700		06/21/2013	
Plant Manager TYPED OR PRINTED	aware that there are sign fine and imprisionment to	ificant penalties for su				EXECUTIVE OFFICER OR		AREA	NUMBER	MM/DD/YYYY		
COMMENTS AND EXPLANAT					ooth							



NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

IOIANT I	OLLUIA	MAI DI	SUMAN	35 55	MILITALIO	14 31316	AL (14L)	96
	DISCHA	RGF N	AONITO	RING	REPORT	(DMR)		

PERM	ITTEE	NAME/A	DORESS

NAME Exelon Generation Co., LLC ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010 ATTN: Zoe Cox/ENV SPEC

11 0048313	C01-0
11 (014443)	1 (4)14)

PERMIT NUMBER

DISCHARGE NUMBER

MONITORING PERIOD							
MM/DD/YYYY		MM/DD/YYYY					
05/01/2013] то	05/31/2013					

DMR Mailing ZIP CODE:

MAJOR

(SUBR 01) CS

WWTP (FORMER 001C) External Outfall

... NO DISCHARGE

61010

PARAMETER	QUANTITY OR LOADING			<u> </u>	QUANTITY OR CONCENTRATION NO. FREQUENCY OF						SAMPLE
PANAMÇIEN		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	ANALYSIS	TYPE
Zinc, total (as Zn)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01092 1 0 Effluent Gross	PERMIT REQUIREMENT		*****	*****	******	30DA AVG	2- DAILY MX	mg/L		Daily	GRAB
Flow, in conduit or thru reatment plant	SAMPLE MEASUREMENT	0.022	0.037	3	*****	******	*****	*****	0	01/01	CN
0050 1 0 Iffluent Gross	PERMIT REQUIREMENT	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	Mgal/d	******	******	*****	******		Daily	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										·
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	37					7				
	SAMPLE MEASUREMENT	· · · · · · · · · · · · · · · · · · ·	<u></u>						ļ	<u> </u>	
	PERMIT REQUIREMENT										
	I certify under penalty of direction or supervision is	n accordance with a s	rystem designed to assu	ne that qualified	personnel	O 'O.		TELEPHONE		DATE	
Benjamin P. Youman	properly gather and evaluate who manage the system information submitted is,	, or those persons din	ectly responsible for gat	hering the infor	nation, the	SIGNATURE OF PR		15 406-3700		06/21/2013	-
	aware that there are sign tine and imprisionment to	dificant penalties for su				EXECUTIVE OFFICE		NUMBER		MM/DD/YYY	Y
	ION OF ANY VIOLAT	TIONS (Reference	e all attachments b	nere)		AU I NORIZED A	GENI CC	DE	L		
COMMENTS AND EXPLANATI	ION OF ANY VIOLAT	TIONS (Reference	e all attachments t	nere)					1		
EPA Form 3320-1 (Rev 01/0	06) Previous editions	may be used.				<u></u>				1/6/2012	PAG

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

ß	PER	MIT	TEE	NA	MF	ΔΠ	DR	FSS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station

LOCATION 4450 North German Church Road

Byron, IL 61010 ATTN: Zoe Cox/ENV SPEC

IL0048313	D01-0
PERMIT NUMBER	DISCHARGE NUMBER

	MONITORING PERIOD									
	MM/DD/YYYY		MM/DD/YYYY							
FROM	05/01/2013] то[05/31/2013							

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01) CS

RADWASTE TREATMENT (FORMER 001D)
External Outfall

*** NO DISCHARGE ***

PARAMETER		QUA	ITITY OR LOADING	G	a	NUANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	ANALYSIS	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	*****	******	*****	*****	9.3	18.0	19	0	02/30	СР
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	esogen .		20000	- Bronne	. 15 30DA AVG	30 DAILY MX	mg/L		Twice Per Month	COMPOS
Flow, in conduit or thru reatment plant	SAMPLE MEASUREMENT	0.026	0.046	3	*****	*****	*****		0	01/01	CN
0050 1 0 Iffluent Gross	PERMIT REQUIREMENT	Req. Mon. 30DA AVG	Peq. Mon. DAILY MX	MgaVd	14. C	444 FRANK		******		Daily	CONTIN
	SAMPLE MEASUREMENT										
	REQUIREMENT	を 製りを				1.2000000000000000000000000000000000000	The state of	in the			
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT								<u>:</u>		
	SAMPLE MEASUREMENT	_									
	PERMIT REQUIREMENT	en tropp de la la la La la		1		46				A Temps	
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT							1 1 1 1 1 1 1			
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of I direction or supervision in	n accordance with a st	stem designed to assu	re that qualified	personnel			LEPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system, information submitted is,	ute the information sub , or those persons dire	mitted. Based on my li ctly responsible for gat	nquiry of the per hering the inform	son or persons	IGNATURE OF PRI	NCIPLE 815	406-3700		06/21/2013	
	aware that there are sign fine and imprisionment to	nificant penalties for su				EXECUTIVE OFFIC	ER OR ARE	NUMBER	 	MM/DD/YYY	
		A MONING VICELLOID.				AUTHORIZED AC	SENT COD	F	İ		•



NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) **DISCHARGE MONITORING REPORT (DMR)**

61010

MAJOR

(SUBR 01) CS

STORMWATER (FORMER 001E)

PERMITTEE NAME/ADDRESS NAME

Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

ATTN: Zoe Coy/ENV SPEC

Warrenville, IL 60555-5701

FACILITY **Byron Nuclear Power Station LOCATION** 4450 North German Church Road

Byron, IL 61010

IL0048313	E01-0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD MM/DD/YYYY MM/DD/YYYY 05/01/2013 TO 05/31/2013

External Outfall

*** NO DISCHARGE

DADAMETED		QUANTITY OR LOADING		QUANTITY OR CONCENTRATION				NO.	FREQUENCY	SAMPLE	
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	ANALYSIS	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	******	*****	*****	*****					500	
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	agango	Stepach .	**************************************	900900	15 30DA AVG	30 DAILY MX	mg/L		Weeklys	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	*****	*****	*****					500	
00530 8 0 Other Treatment, Process Complete	PERMIT REQUIREMENT	**************************************	eposes	**************************************	To the September of the	30 30DA AVG	100 DAILY MX	iu ō ⁄r		Weekly	GRĄB
Chromium, hexavalent as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
)1032 1 0 Effluent Gross	PERMIT REQUIREMENT	econos	*****	*******	2 (2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	30DA AVG	.2 DAILY MX	mg/L		Daily	GRAB
Chromium, total as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01034 1 0 Effluent Gross	PERMIT REQUIREMENT	000000	******	******	******	1 30DA AVG	DAILY MX 5	mg/L		Daily	GRAB
Copper, total as Cu)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
)1 042 1 0 Effluent Gross	PERMIT REQUIREMENT	estina	*****	(pode)	***************************************	.5 30DA AVG	1 DAILY MX	mg/L		Daily	GRAB
ron, total as Fe)	SAMPLE MEASUREMENT	******	*****	*****	******	******				500	
01045 1 0 Effluent Gross	PERMIT REQUIREMENT	§ * * * * * * * * * * * * * * * * * * *	900000	******	400000 4 Ali	201010	DAILY MX	mg/L		Daily	GRAB
.ead, total as Pb)	SAMPLE MEASUREMENT	****	*****	*****	*****				,	500	
)1051 1 0 Effluent Gross	PERMIT REQUIREMENT	99000	******	440000	******	30DA AVG	.4 DAILY MX	(ng/L		Daily	GRAB
	I certify under penalty of direction or supervision is	n accordance with a s	ystem designed to assu	re that qualified	personnel	0 2	TE	LEPHONE		DATE	
Benjamin P. Youman	properly gather and evaluate who manage the system, information submitted is,	, or those persons dire	ectly responsible for gat	hesing the infor	nation, the	SIGNATURE OF PRI	NCIPLE 815	406-3700		06/21/2013	
	aware that there are sign fine and imprisionment to	ificant penalties for su				EXECUTIVE OFFICE		1 NUMBER		MM/DD/YYY	Υ

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

1. There was no discharge of processed steam generator chemical cleaning wastewater during the month.

FROM

- 2. Flow existed through this outfall 5 of 31 days during the month.
- 3. There was no discharge of Fire Protection drain water during the month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

PERMITTE	

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION

4450 Nor	th German	Church	Road
Byron, IL	61010		

FROM

IL0048313	E01-0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD								
MM/DD/YYYY		MM/DD/YYYY						
05/01/2013	то	05/31/2013						

61010

MAJOR

(SUBR 01) CS

STORMWATER (FORMER 001E) **External Outfall**

*** NO DISCHARGE

PARAMETER		QUA	NTITY OR LOADING	G		QUANTITY OR CON	NO. FREQUENCY		SAMPLE		
PANAMEIEN		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	ANALYSIS	TYPE
vickel, total as Ni)	SAMPLE MEASUREMENT	******	. ******	*****	*****					500	
01067 1 0 Effluent Gross	PERMIT REQUIREMENT	******	*****	*****	******	30DA AVG	DAILY MX	mg/L		Daily	GRAB
žinc, total as Zn)	SAMPLE MEASUREMENT	******	*****	*****	*****		_			500	
01092 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	éssesé	30DA AVG	DAILY MX	mg/L	1	Daily	GRAB
Flow, in conduit or thru reatment plant	SAMPLE MEASUREMENT	0.103	0.243	3	*****	*****	*****	******	0	02/30	CN
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	MgaVd	eorșes	******	*******	*****		Twice Per Month	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT					:			1.40	·	
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT				·						
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	and so with									.•
	SAMPLE MEASUREMENT										
	REPUIT REQUIREMENT					1					
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision in							ELEPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system	ute the information su , or those persons din	bmitted. Based on my in actly responsible for gat	nquiry of the per hering the inform	nation, the	SIGNATURE OF PR		5 406-3700		06/21/2013	
	information submitted is, aware that there are sign				գուֆաստ.ւտ ուլ ՝	EXECUTIVE OF FIC		EA NUMBER	 	MM/DD/YYY	<u> </u>
Plant Manager						AUTHORIZED A	GENT CO	" HOWBEL	1		T .



NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

•	

PERMITTEE NAME/ADDRESS

NAME Exeion Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byron, IL 61010

DISCHANGE MONI	TORING REPORT (DMR)
IL0048313	001-0

IL0048313 001-0
PERMIT NUMBER DISCHARGE NUMBER

	MONITO	RING	PERIOD
	MM/DD/YYYY		MM/DD/YYYY
MO	05/01/2013	10	05/31/2013

DMR Malling ZIP CODE:

61010

MAJOR

(SUBR 01)

COOLING SYSTEM BLOWDOWN

CS

External Outfall

*** NO DISCHARGE ...

		QUA	NTTTY OR LOADING	C	QUANTITY OR CON	CENTRATION	NO. FREQUENCY		SAMPLE		
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	I EX I	ANALYSIS	TYPE
emperature, water deg. ahrenheit	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	88.3	15	0	01/01	CN
0011 1 0 ffluent Gross	PERMIT	7***	eccese .	-	Company of	i properties	Req. Mon. MO MAX	deg F		Daily	CONTI
н	SAMPLE MEASUREMENT	*****	*****	******	8.42	*****	8.59	12	0	01/07	GR
0400 1 0 ffluent Gross	PERMIT. REQUIREMENT	Sample Vi	***************************************	-	6 MINIMUM	14.17	MAXIMUM :	. su		Weekly	GRAB
olids, total suspended	SAMPLE MEASUREMENT	******	*****	*****	*****	3.1	3.1	19	0	01/30	GR
0530 1 0 Effluent Gross	PERMIT REQUIREMENT	*******	******	agedon &		Req. Mon, 30DA AVG	Req. Mon. DAILY MX	mg/L		Monthly	GRAB
XII & Grease	SAMPLE MEASUREMENT	*****	******	*****	*****	<1.4	<1.4	19	0	01/07	GR
0556 1 0 Effluent Gross	PERMIT REQUIREMENT	aganta .	41-11-1		490000	15 30DA AVG	20 DAILY MX	mg/l.		Weeldy	GRAB
thromium, total (as Cr)	SAMPLE MEASUREMENT	*****	******	*****	*****	*****	<0.0021	19	0	01/07	GR
11034 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	000000	******	000000	en tage	0.2 DAILY MX	mg/L		Weekly	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	******	*****	*****	*****	0.024	19	0	01/07	GR
11042 1 0 Effluent Gross	PERMIT REQUIREMENT	••••• •••	*****	******			0.071 DAILY MX	mg/L	; ;	Weekly	GRAB
linc, total (as Zn)	SAMPLE MEASUREMENT	*****	******	******	*****	0.003	0.004	19	0	01/07	GR
01092 1 0 Effluent Gross	PERMIT 4		***************************************	1 mm	****	.213 30DA AVG	.433 DAILY MX	‡ mp/L		Weekly	GRAB
NAME/ITTLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision is						TE	LEPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation who manage the system.	, or those persons dire	actly responsible for gat	hering the inform	nation, the	HGNATURE OF PRI	NCIPLE 815	406-3700		06/21/2013	
Plant Manager	information submitted is, aware that there are sign fine and imprisionment to	eficant penalties for su				EXECUTIVE OFFICE	ER OR ARE	INUMBER		MM/DD/YYY	Y
TYPED OR PRINTED						AUTHORIZED A	GENT COD	<u> </u>	L		
COMMENTS AND EXPLANAT . Monitoring data for outfall OC		•	, an altac ilin cills (iuid)							
PA Form 3320-1 (Rev 01/06)											

PERMITTEE NAME/ADDRESS

NAME

Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY

Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010 ATTN: Zoe Cox/ENV SPEC

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES
DISCHARGE MONITORING REPORT (DMR)	

 IL0048	313
 PERMIT NU	JMBER

FROM

001-0 DISCHARGE NUMBER

MONITORING PERIOD									
MM/DD/YYYY		MWDD/YYYY							
05/01/2013	TO	05/31/2013							

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01)

CS

COOLING SYSTEM BLOWDOWN

External Outfall

· · · NO DISCHARGE

Oxidants, total residual 34044 1 0 Effluent Gross Priority pollutants total effluent SAM MEASUI REQUIF	REMENT MIT	VALUE		VALUE		VALUE	VALUE	VALUE 0.03	UNITS 19	NO. EX	OF ANALYSIS 01/07	SAMPLE TYPE
Oxidants, total residual MEASUI 34044 1 0 PEF Effluent Gross REQUIF	REMENT MIT			******	******	*****	*****	0.03	19	0	04/07	
Effluent Gross REQUIF							<u> </u>	L			01/07	GR
Priority pollutents total effluent				000000 1-±00	*****	******	******	.05 DAILY MX	ing/L		Weekly	GRAB
MEASUI		*****				*****	*****				500	
50008 1 0 PER Effluent Gross REQUIF		operas		Req. Mon. DAILY MX	ib/d	*****		Req. Mon. DAILY MX	mg/L		Weekly	GRAB
Flow, in conduit or thru SAN treatment plant MEASU	PLE REMENT	20.16		27.46	3	*****	*****	*****	*****	0	01/01	CN
Effluent Gross REQUIP		Req. Mor SODA AV		Req. Mon. DAILY MX	MgaVd			******	******		Daily	CONTIN
Chlorine, total residual MEASUI	EMENT	*****		******	*****	*****	******				500	
50060 1 0 PER Effluent Gross REQUIR	EMENT	200000		******	000000	******	******	.05 DAILY MX	mg/L		Weskly	GRAB
Hydrazine SAM MEASUI		*****		******	******	******					500	
B1313 1 0 PER Effluent Gross REQUIR		*****		******	800000	*****	.011 30DA AVG	.027 DAILY MX	mg/L		Daily When Discharging	GRAB
SAM MEASUI												
. PER . REQUIF					والمناسبة							
SAM MEASUR												
REQUIF	MIT EMENT					•						
				t and all attachments we stem designed to assur			0:0	TEI	LEPHONE		DATE	
Benjamin P. Youman properly gat who manage	ner and evalu the system,	ute the informati , or those persor	on auti na dire	omitted. Based on my in actly responsible for gath	nquiry of the per nering the inform	son or persons	SIGNATURE OF THE	NCIPLE 815	406-3700		06/21/2013	
Plant Manager aware that the				wiedge and belief, true, a bmitting false informatio			EMECUTIVE OFFIC				MM/DD/YYY	· — –
TYPED OR PRINTED fine and imp	Islanment fo	r knowina violat	ions.	all attachments h			AUTHORIŽED AG	SENT CODE				-



NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) **DISCHARGE MONITORING REPORT (DMR)**

		,	

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

4300 Winfield Road ADDRESS

Warrenville, IL 60555-5701

FACILITY **Byron Nuclear Power Station** LOCATION 4450 North German Church Road Byron, IL 61010

IL0048313 PERMIT NUMBER

05/01/2013

FROM

002-0 DISCHARGE NUMBER

MONITORING PERIOD MM/DD/YYYY MM/DD/YYYY TO 05/31/2013

DMR Mailing ZIP CODE:

61010

MAJOR (SUBR 01)

CS

STORMWATER RUNOFF BASIN External Outfall

***NO DISCHARGE X ***

PARAMETER		QUA	NTITY OR LOADING	G.		QUANTITY OR CON	CENTRATION		NO. FREQUENCY		SAMPLE
PANAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	ANALYSIS	TYPE
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	enneng	202000		15 30DA AVG	30 DAILY MX	mg/L		Weekly	GRAB
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	*****	*****	******					500	
00530 8 0 Other Treatment, Process Complete	PERMIT REQUIREMENT		*****		gapare .	30 30DA AVG	100 DAILY MX	mg/L		Waekiy	GRAB
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	070404	*****	*****	*****					500	
01032 1 0 Effluent Gross	PERMIT REQUIREMENT	1.50 Marie	esses en en en en en en en en en en en en en	900000	******	,011 30DA AVG	.016 DAILY MX	iúð√-		Dally	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	******	******	******					500	
01034 1 0 Effluent Gross	PERMIT REQUIREMENT	entesa	******	******	******	30DA AVG	DAILY MX	mg/L.		Daily	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	******	*****	*****					500	
01042 1 0 Effluent Gross	PERMIT REQUIREMENT	*******	entes	******	*****	.025 30DA AVG	.041 DAILY MX	mg/L		Daily	GRAB
iron, total (as Fe)	SAMPLE MEASUREMENT	*****	****	******	*****	*****		-		500	
01045 1 0 Effluent Gross	PERMIT REQUIREMENT	******		******	******	******	DAILY MX	mg/L		Daily	GRAB
Lead, total (as Pb)	SAMPLE MEASUREMENT	*****	*****	******	400000					500	
01051 1 0 Effluent Gross	PERMIT :	******	******	200290	******	.063 30DA.AVG	298 DAILY MX	mg/L		Daily	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICEI	Imperior of enhancement	in accordance with a s	ystem designed to assu	re that qualified	personnel	12		LEPHONE		DATE	
Benjamin P. Youman	properly gather and eval who manage the system information submitted is.	n, or those persons dire	actly responsible for get	hering the Infor	nation, the	SIGNATURE OF PRI	INCIPLE 815	406-3700		06/21/2013	
Plant Manager	aware that there are signifine and imprisionment for	nificant penalties for su				EXECUTIVE OFFICE		INUMBER		MM/DD/YYY	Υ
								1	<u> </u>		

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- 1. No Turbine Building Fire and Oil Sump or Generic Non-Chemical Metal Cleaning Wastewater was discharged this month.
- 2. No Fire Protection or Service Water System Drain Water was discharged this month.
- 3. No Closed Cooling System Drain Water was discharged this month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) **DISCHARGE MONITORING REPORT (DMR)**

TO

PERMITTEE NAME/ADDRESS

NAME

Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

FACILITY

Warrenville, Il 60555-5701

Byron Nuclear Power Station

LOCATION 4450 North German Church Road Byron, IL 61010

IL0048313 PERMIT NUMBER

FROM

MM/DD/YYYY

05/01/2013

002-0 DISCHARGE NUMBER

05/31/2013

MONITORING PERIOD MM/DD/YYYY DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01) CS

STORMWATER RUNOFF BASIN

External Outfall

*** NO DISCHARGE X

040445750		QUAI	NTITY OR LOADING	G	a	UANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	פדואט	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
Nickel, total as Ni)	SAMPLE MEASUREMENT	*****	*****	******	422044					500	
01067 1 0 Effluent Gross	PERMIT REQUIREMENT	******	, 223400	200409	*******	.011 30DA AVG	.176 DAILY MX	mg/L		Daily	GRAB
Zinc, total (as Zn)	SAMPLE MEASUREMENT	*****	*****	*****						500	
01092 1 0 Effluent Gross	PERMIT	elanna	-asset	*****	*****	.047 30DA AVG	.26 DAILY MX	mg/L		Daily	GRAB
Oil and Grease	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
D3582 1 0 Effluent Gross	PERMIT REQUIREMENT	******	Langue	*****	******	15 300A AVG	20 DAILY MX	mg/L		When Discharging	GRAB
Flow, in conduit or thru reatment plant	SAMPLE MEASUREMENT				*****	*****	*****	*****		500	
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	Mgal/d	024200	400020	*****	001000		When Discharging	ESTIMA
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	·									
	SAMPLE MEASUREMENT										
ı	PERMIT. REQUIREMENT										:
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision to					<i>a</i>	1	ELEPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system.	ute the information sui , or those persons din	brnitted. Based on my i actly responsible for gat	nquiry of the per hering the inform	son or persons nation, the	IGNATURE OF PRI	NCIPLE 81	5 406-3700		06/21/2013	ı
Plant Manager	information submitted is, aware that there are sign	ifficant penalties for su				EXECUTIVE OFFICE		A	 		
TYPED OR PRINTED	fine and imprisionment to	or knowing violations.			1	AUTHORIZED AC		HAMMUNI	1	MM/DD/YYY	Y

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- 1. This discharge point was not used this month.
- 2. There was no discharge of processed steam generator chemical cleaning wastewater during the month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

ATTACHMENT TO COOLING SYSTEM BLOWDOWN (Outfall 001-0) DISCHARGE MONITORING REPORT

For Exelon Byron Station

Permit IL0048313 May 2013

Page 1 of 2

MONITORING DATA:

DATE	CWBD Temperature	CWBD Flow	Rock River Flow			
DAIL	deg F	mgd	cfs			
05/01/2013	81.1	11.34	18,600			
05/02/2013	79.7	16.04	17,500			
05/03/2013	66.2	23.76	17,000			
05/04/2013	75.2	26.19	16,600			
05/05/2013	75.2	22.02	15,900			
05/06/2013	76.4	14.84	15,200			
05/07/2013	74.9	23.10	14,500			
05/08/2013	78.7	16.67	14,000			
05/09/2013	78.7	22.51	13,400			
05/10/2013	77.5	17.36	13,800			
05/11/2013	80.4	26.58	13,800			
05/12/2013	80.4	21.63	13,600			
05/13/2013	78.3	16.68	13,500			
05/14/2013	88.3	21.31	13,400			
05/15/2013	88.3	18.98	13,200			
05/16/2013	83.8	19.21	12,800			
05/17/2013	80.4	14.09	12,200			
05/18/2013	84.0	26.77	11,700			
05/19/2013	85.7	21.37	11,400			
05/20/2013	87.2	14.24	11,200			
05/21/2013	87.2	21.13	10,900			
05/22/2013	86.0	19.06	10,500			
05/23/2013	82.3	20.79	10,300			
05/24/2013	76.1	21.60	10,200			
05/25/2013	75.0	27.46	10,000			
05/26/2013	77.4	15.05	9,810			
05/27/2013	79.0	22.63	9,740			
05/28/2013	85.8	18.72	9,790			
05/29/2013	86.5	20.27	10,200			
05/30/2013	88.2	22.09	10,200			
05/31/2013	87.8	21.36	10,300			

ATTACHMENT TO COOLING SYSTEM BLOWDOWN (Outfall 001-0) DISCHARGE MONITORING REPORT

For Exelon Byron Station
Permit IL0048313
May 2013
Page 2 of 2

HYDRAZINE MONITORING:

There were no steam generator chemical cleaning solutions (or associated rinses) containing hydrazine discharged to the Cooling System Blowdown during the month of May 2013.

TOTAL QUANTITY DISCHARGED: N/A

TOTAL DURATION OF DISCHARGE: N/A

COMMENTS:

- 1. Sodium Hypochlorite and Bromine compounds were used this month.
- 2. There was no discharge of steam generator chemical cleaning wastewater containing hydrazine in this month.
- 3. Flow existed through this outfall 31 of 31 days.
- 4. Per Special Condition 24 the influent from the Rock River and effluent from Outfall 001-0 was monitored for Total Suspended Solids (TSS) this month. The Rock River TSS value was 11.2 mg/L on 05/06/2013. The CWBD TSS value was 3.1 mg/L on 05/06/2013.
- 5. Rock River flow for May 2013 was >2400 cfs therefore daily temperature calculations were not required this month. (Special Condition 12).
- 6. There was no discharge of the 126 Priority Pollutants from cooling tower maintenance chemicals in May 2013. (Special Condition 15).



Exelon Generation Company, LLC Byron Station 4450 North German Church Road Byron, IL 61010-9794 www.exeloncorp.com

Nuclear

July 18, 2013

LTR: BYRON 2013-0096

File: 2.09.0411 1.10.0101

Illinois Environmental Protection Agency Water Pollution Control Compliance Assurance Section #19 1021 North Grand Avenue East P.O. Box 19276 Springfield, IL 62794-9276

Subject: Byron Station Monthly Discharge Monitoring Report

In accordance with National Pollutant Discharge Elimination System (NPDES) Permit Number IL0048313, issued January 24, 2011, we are submitting the Discharge Monitoring Report for Byron Station, Units 1 and 2. This report covers the period of June 1, 2013 through June 30, 2013.

If there are any questions regarding this report, please contact Ms. Zoe Cox, Environmental/Radwaste Supervisor, at (815) 406-3035.

Respectfully,

Benjamin P. Youman

Plant Manager

Byron Nuclear Generating Station

BPY/ZC/eh Attachments bcc: Kevin Hersey – Sr. Environmental Specialist – Cantera (electronic) Zoe Cox – Environmental/Radwaste Supervisor – Byron

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byron, IL 61010

!L0048313	A01-0
PERMIT NUMBER	DISCHARGE NUMBER

	MONITORING PERIOD										
	MM/DD/YYYY		MM/DD/YYYY								
ROM	06/01/2013] то[06/30/2013	_							

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01) CS

DEMINERALIZER REGENERATE WASTE (001A) External Outfall

•	•	NO	DISCHARGE		***
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MIT	garage.	*******	49444			Partis	DAILY N	AX:	mg/L		Daily	GRAB
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MIT	100719	*****	200000	40000		30DA AVG	DAILY	ıχ	mg/L		Daily	GRAB
REMENT	******	*****	480549	*****				, <u>, </u>			500	
MIT EMENT		*****	40000	******		30DA AVG		AX .	. mg/L		Daily	GRAB
supervision in	accordance with a sy	ystem designed to assu	re that qualified	personnal	_	J 35. 4		TE	EPHONE		DATE	
e the system,	or those persons dire	ectly responsible for gati	hering the infon	nation, the	SIC	ANATORE OF PRI	NCIPLE	815	406-3700		07/18/2013	
here are signi	ificant penalties for su				E			AREA	NUMBER		MM/DD/YYY	Y
VY VIOLAT	TONS (Reference	ali attachments h	ere)					1000	1	L		
steam gene month.	erator chemical cle	eaning wastewater	during this m	onth.								
	PLE REMENT MIT EMENT or penalty of imperior or evaluation in the system, submitted is, nere are sign risionment for the system generation in the system generation in the system generation in the system generation.	EMENT PLE IEMENT IF penalty of law that this document supervision in accordance with a site and evalute the information suit the system, or those persons directly submitted is, to the best of my knowners are significant penalties for survisionment for knowing violations. If VIOLATIONS (Reference steam generator chemical climater)	EMENT PLE IEMENT IF penalty of law that this document and all attachments we supervision in accordance with a system designed to assure rand evalute the information submitted. Based on my in the system, or those persons directly responsible for gattubrnitted is, to the best of my knowledge and belief, true, nere are significant penalties for submitting false information risionment for knowing violations. If VIOLATIONS (Reference all attachments he steam generator chemical cleaning wastewater month.	EMENT INT INT INT INT INT INT INT	EMENT INT INT INT INT INT INT INT	EMENT ILLEMENT IMIT I	PLE IEMENT MIT Servere Appears Appe	PLE IEMENT IMIT PLE IEMENT MIT Important of law that this document and all attachments were prepared under my uppervision in accordance with a system designed to assure that qualified personnel are rand evaluate the Information submitted. Based on my inquiry of the person or persons the system, or those persons directly responsible for gathering the Information, the submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am here are significant penalties for submitting false information, including the possibity of risionment for knowing violations. IN VIOLATIONS (Reference all attachments here) Steam generator chemical cleaning wastewater during this month.	PLE IEMENT IMIT PLE IEMENT IMIT IMIT IMIT IMIT IMIT IMIT IMIT I	PLE		

IAME/ADDRESS
IAMP/ALIJHESS

NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	A01-0
PERMIT NUMBER	DISCHARGE NUMBER

	MONITORING PERIOD									
	MM/DD/YYYY		MM/DD/YYYY							
FROM	06/01/2013	то	06/30/2013							

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01)

DEMINERALIZER REGENERATE WASTE (001A) External Outfall

CS

· · · NO DISCHARGE		•••
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DADAMETED		AUD	NTTY OR LOADING		QUANTITY OR CON		NO.	FREQUENCY	SAMPLE			
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUI	E	UNITS	EX	OF ANALYSIS	TYPE
inc, Total as Zn)	SAMPLE MEASUREMENT	40000	500000	*****	*****						500	
1092 1 0 Iffluent Gross	PERMIT REQUIREMENT	******	*****	<u></u>	*******	30DA AVG	2 DAILY N	AX.	mg/L	.,,	Daily	GRAB
low, in conduit or thru eatment plant	SAMPLE MEASUREMENT	0.057	0.243	3	******	*****	*****		*****	0	01/01	ES
0050 1 0 ffluent Gross	PERMIT REQUIREMENT	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	' Mgal/d	aastaa.		******	<i>.</i>			Daily	CONTIN
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT							1773 A			1900	
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT							A				
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT				,							
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
NAME/TITLE RINCIPAL EXECUTIVE OFFICER	I certify under penalty of I direction or supervision in							TELE	PHONE		DATE	
Benjamin P. Youman	properly gather and evaluation who manage the system, information submitted is,	te the information sub or those persons dire	omitted. Based on my in actly responsible for gath	iquiry of the per iering the inform	son or persons	Servario C. SIGNATIVAE OF PA	NCIDI E	815	406-3700		07/18/2013	
Plant Manager	aware that there are signifine and imprisionment fo	ficant penalties for su				EXECUTIVE OFFICE	ER OR	AREA	NUMBER		MM/DD/YYY	Υ
TYPED OR PRINTED			all attachments h			AUTHORIZED AC	iEN I	CODE				

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	B01-0
PERMIT NUMBER	DISCHARGE NUMBER

	M	ONITORING PERIO	מכ
	MM/DD/YYYY		MM/DD/YYYY
FROM	06/01/2013	то	06/30/2013

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01)

STP PLANT EFFLUENT (FORMER 0018)

CS

External Outfall

· · · NO DISCHARGE . · ·

PARAMETER		QUAN	ITITY OR LOADING	3		<u> </u>	UANTITY OR CON	CENTRATIO	N		NO. FREQUEN		SAMPLE
PARAMEIEN		VALUE	VALUE	UNITS	VALUE		VALUE	VALU	E	UNITS	EX	ANALYSIS	TYPE
3OD, 5-Day 20 Deg. C)	SAMPLE MEASUREMENT	0.38	0.40	26	*****		5.5	7.0		19	0	02/30	24
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	5.3 30DA AVG	10.5 DAILY,MX	ID/di	******		.30 30DA AVG .	60 DAILY N		mg/L		Twice Per Month	COMP24
Н	SAMPLE MEASUREMENT	******	*****	*****	7.52		*****	7.60		12	0	02/30	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	georgi Stall Joy Vision of the	essage.	******	6 MINIMUN		******	9 MAXIML	JM	su		Twice Per Month	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	0.23	0.31	26	*****		2.9	3.1		19	0	02/30	24
0530 1 0 Effluent Gross	PERMIT REQUIREMENT	5.3 30DA AVG	10.5 PAILY MX	ib/d	6 danda		30 300A AVG	DAILY N	AX.	mg/L		Twice Per Month	- COMP24
Row, in conduit or thru reatment plant	SAMPLE MEASUREMENT	0.008	0.014	3	200002		*****	44444		******	0	01/01	CN
60050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	Mgal/d	8.0000		019200	******		******		Daily	CONTIN
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	certify under penalty of direction or supervision in								TE	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system.	or those persons dire	ctly responsible for gatl	nering the inform	nation, the	SI	GNAZURE OF PRI	NCIPLE	815	406-3700		07/18/2013	
Plant Manager	information submitted is, aware that there are sign fine and imprisionment to	ificant penalties for su					EXECUTIVE OFFIC	ER OR	AREA	INUMBER		MM/DD/YYY	Y
COMMENTS AND EXPLANATION	<u> </u>		all attachments h		<u> </u>		AUTHORIZED AC	iEN I	CODE		<u> </u>		
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EPA Form 3320-1 (Rev 01/0	S) Provious aditions	mou he wood		-								1/6/2012	PAGE

PERMITTEE NAME/ADDRESS

NAME

Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

Byron Nuclear Power Station FACILITY LOCATION 4450 North German Church Road

Byron, IL 61010 ATTN: Zoe Cox/ENV SPEC

IL0048313	C01-0
PERMIT NUMBER	DISCHARGE N

DISCHARGE NUMBER

1	MONITORING PERIOD							
	MM/DD/YYYY		MM/DD/YYYY					
FROM	06/01/2013] το [_	06/30/2013					

DMR Mailing ZIP CODE:

MAJOR (SUBR 01)

CS

WWTP (FORMER 001C) External Outfail

*** NO DISCHARGE

61010

		QUAI	ITITY OR LOADING	3	C	DUANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	ANALYSIS	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	*****	******	400000	*****	6.4	7.4	19	0	02/30	24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	- jehina	yessag	******		15 30DA AVG	30 DAILY MX	mg/L		Twice Per Month	COMP24
Chromium, hexavalent as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	924234					500	
)1032 1 0 Effluent Gross	PERMIT REQUIREMENT	Assess	******	624356	panger	.1 30DA AVG	.2 DAILY MX	mg/L		Daily	GRAB
Chromium, total as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01034 1 0 Effluent Gross	PERMIT REQUIREMENT	999989	900000	******	224460	30DA AVG	DAILY MX	mg/L		Daily	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	*****	*****	227770					500	
01042 1 0 Effluent Gross	PERMIT REQUIREMENT.	949444	gapada		'enegree	.5 30DA AVG	DAILYMX	Jng/L		Daily-	.GRAB
ron, total (as Fe)	SAMPLE MEASUREMENT	*****	******	*****	*****	*****				500	
01045 1 0 Effluent Gross	PERMIT REQUIREMENT	stedad	******	184124	******	*****	DAILY MX	mg/L		-Daily	GRAB
Lead, total (as Pb)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01051 1 0 Effluent Gross	PERMIT REQUIREMENT) esequa	ESSERE	200900	30DA AVG	DAILY MX	mg/L		Daily	GRAB
vickel, total as Ni)	SAMPLE MEASUREMENT	******	******	*****	*****					500	
01067 1 0 Effluent Gross	PERMIT REQUIREMENT	******	epones	+22009		30DA AVG	DAILY MX	mg/L.		Daily	GRAB.
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision i	n accordance with a s	ystem designed to assu	re that qualified	personnel		1	ELEPHONE	į	DATE	
Benjamin P. Youman	properly gather and evaluation who manage the system information submitted is.	, or those persons dir	ectly responsible for gat	hering the infor	nation, the	SIGNATURE OF BRI		5 406-3700		07/18/2013	,
Plant Manager	aware that there are sign	nificant penalties for si				EXECUTIVE OFFICE		INUMBER		MM/DD/YYY	γ ·
OMMENTS AND EXPLANA	TION OF ANY VIOLA	TIONS (Reference	e all attachments t	nere)		AU INVINCED AC	SENT CO	UE!	1		
. There was no discharge of 2. Flow existed through this of	processed steam gen	erator chemical cl			onth.						
EPA Form 3320-1 (Rev 01	/06) Previous editions	may be used.								1/6/2012	PAGE

DISCHARGE MONITORING REPORT (DMR) DMR Mailing ZIP CODE:

DEDMITTEE	BIABAC/A	DDDECC
PERMITTEE	NAMEZA	DURESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

Byron Nuclear Power Station FACILITY LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	C01-0
PERMIT NUMBER	DISCHARGE NUMBER

	MON	TORING PER	IOD
	MM/DD/YYYY		MM/DD/YYYY
FROM	06/01/2013	то	06/30/2013

(SUBR 01) WWTP (FORMER 001C)

External Outfail

MAJOR

*** NO DISCHARGE

CS

61010

		QUAN	ITITY OR LOADING	G G		QUANTITY OR CONCENTRATION NO.			NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
Zinc, total as Zn)	SAMPLE MEASUREMENT	*****	40000	*****	*****					500	
01092 1 0 Effluent Gross	PERMIT	Annges	gerosp	*****	868980	30DA AVG	2 DAILY MX	- mg/L		Daily -	GRAB
low, in conduit or thru reatment plant	SAMPLE MEASUREMENT	0.024	0.041	3	*****	407144	*****	*****	0	01/01	CN
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. 30DA AVG	Reg. Mon. DAILY MX	MgaVq	2,000	491109		******	. 6	Daily	CONTIN
	SAMPLE MEASUREMENT								<u> </u>		
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT								1.485		** <u>3,500</u>
	PERMIT -REQUIREMENT SAMPLE						35 g 12				
	MEASUREMENT RERMIT								1,19		4
	REQUIREMENT SAMPLE								1000		
	MEASUREMENT PERMIT REQUIREMENT			10 7					3		
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT		200								
NAME/TITLE	I certify under penalty of direction or supervision i	in accordance with a s	ystem designed to assu	re that qualified	personnel	0		TELEPHONE		DATE	
PRINCIPAL EXECUTIVE OFFICER		han the information and	omitted. Based on my i			1 Sommer		15 406-3700		07/18/2013	
	property gather and eval	, or those persons dire	ectly responsible for gat	hering the intom accurate, and o	complete. I am	SIGNATORE OF PR	MCIPLE		1		
PRINCIPAL EXECUTIVE OFFICER	property gather and eval	i, or those persons dire , to the best of my kno nificant penalties for su	ectly responsible for gati wiedge and belief, true,	accurate, and o	complete. I am	SIGNATORE OF PRE EXECUTIVE OFFICE AUTHORIZED A	ER OR	EA NUMBER		MM/DD/YYY	Υ

NAME Exelon Generation Co., LLC ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

		Byron,	IL	61010
ATTN:	Zoe	Cox/ENV	S	PEC

 	•
DISCHARGE MONITORING REPORT (DMR)	

IL0048313	D01-0
PERMIT NUMBER	DISCHARGE NUMBER

	MONITO	RING	PERIOD
	MM/DD/YYYY		MM/DD/YYYY
FROM	06/01/2013	TO	06/30/2013

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01) CS

RADWASTE TREATMENT (FORMER 001D) External Outfail

*** NO DISCHARGE

242445	$\overline{}$	QUA	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION					FREQUENCY	SAMPLE
PARAMETER	VALUE	VALUE	UNITS	VALUE	VALUE	VALUE		UNITS	EX	ANALYSIS	TYPE	
olids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	2.4	4.1		19	Ö	02/30	СР
0530 1 0 iffluent Gross	PERMIT REQUIREMENT	engaga Linguis de la companya de la companya de la companya de la companya de la companya de la companya de la companya	HANDER.	adana Agri	Astono	15 30DA AVG	30 DAILY M	x .	mg/l_	5. <i>i</i> .	Twice Per Month	COMPOS
low, in conduit or thru eatment plant	SAMPLE MEASUREMENT	0.022	0.024	3	*****	*****	*****		*****	0	01/01	CN
0050 1 0 ffluent Gross	PERMIT REQUIREMENT	Reg. Mon. 30DA AVG	Req. Mon DAILY MX	Mgai/d	******	*******	*******		essepe 2		Daily	CONTIN
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT), 77 (9), 79-24								
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											77-17
-	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	REPUIT REQUIREMENT						•					
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT										1.00	1
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision is					_		TELE	PHONE		DATE	
Benjamin P. Youman	properly gather and evaluation who manage the system.	ite the information su or those persons dire	bmitted. Based on my i	ngulry of the pe hering the infor	rson or persons mation, the	SIGNATIONE OF PR	DECIPI E	815	406-3700		07/18/2013)
Plant Manager	information submitted is, aware that there are sign fine and imprisionment to	ificant penalties for si				EXECUTIVE OFFIC	CER OR	AREA	NUMBER		MM/DD/YYY	Υ
TYPED OR PRINTED	into mio nithimornion id	i latona g violation.			i	AUTHORIZED A	GENT	CODE		i		

MONITORING PERIOD

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701.

FACILITY **Byron Nuclear Power Station** LOCATION 4450 North German Church Road FROM

IL0048313

PERMIT NUMBER

E01-	-0
DISCHARGE	NUMBER

DMR Mailing ZIP CODE: MAJOR

(SUBR 01)

CS

61010

STORMWATER (FORMER 001E) External Outfall

	MM/DD/YYYY		MM/DD/YYYY	<u></u>		
ı	06/01/2013	ТО	06/30/2013	*** NO DISCHARGE	\neg	• •
				·		

PARAMETER		QUANTITY OR LOADING			a	UANTITY OR CON	NO.	FREQUENCY	SAMPLE		
PANAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	ANALYSIS	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	******					500	
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	quatan	\$1150°C	468844	*****	15 30DA AVG	30 DAILY MX	mg∕L		Weekly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	25.2	27.0	19	0	01/07	GR
00530 8 0 Other Treatment, Process Complete	PERMIT REQUIREMENT	******	PROPERTY	######################################	******	30 30DA AVG	100 DAILY MX	mg/L		Weekly	GRAB
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	*****	*****	****	******					500	
01032 1 0 Effluent Gross	PERMIT REQUIREMENT	***	**************************************	008000	esynas	30DA AVG	DAILY MX	mg/l		Daily 11	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	******	*****	*****					500	
01034 1 0 Effluent Gross	PERMIT REQUIREMENT	29200	Jacoban.	*****	spaces	30DA AVG	DAILY MX	mg/L	1944 1944	T Daily	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01042 1 0 Effluent Gross	PERMIT REQUIREMENT	egarage 1	* 3****	******	\$66400	.5 30DA AVG	DAILY MX	mg/L		Daily	GRAB:
Iron, total (as Fe)	SAMPLE MEASUREMENT	*****	*****	*****	******	*****				500	, ,,
01045 1 0 Effluent Gross	PERMIT REQUIREMENT	egasyo		esasus X			1 DAILY MX	,mg/L		- Qaily	GRAB
Lead, total (as Pb)	SAMPLE MEASUREMENT	*****	*****	*****	******					500	
01051 1 0 Effluent Gross	PERMIT REQUIREMENT	******	RANNE	*****	*****	.2: 30DA AVG	DAILY MX	mg/L		Daily	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of I direction or supervision in						TE	LEPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system, information submitted is,	ite the information sub or those persons dire	ornitted. Based on my in actly responsible for gath	equiry of the per sering the inform	son or persons	Symme C	815	406-3700		07/18/2013	
Plant Manager	aware that there are sign fine and imprisionment to	ilicant penalties for su				EXECUTIVE OFFICE AUTHORIZED AG	ER OR AREA	INUMBER		MM/DD/YYY	Y

- 1. There was no discharge of processed steam generator chemical cleaning wastewater during the month.
- 2. Flow existed through this outfall 6 of 30 days during the month.
- 3. There was discharge of Fire Protection drain water during the month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	E01-0
PERMIT NUMBER	DISCHARGE NUMBER

MONITO	RING	PERIOD
MM/DD/YYYY		MM/DD/YYYY
06/01/2013	то	06/30/2013

DMR	Mailing	ZIP	CODE:
-----	---------	-----	-------

MAJOR

(SUBR 01) CS

STORMWATER (FORMER 001E)

External Outfall

	* NO	DISCHARGE	•••
•	' NO	DISCHARGE	

61010

PARAMETER		QUAN	TITY OR LOADING	3	G	UANTITY OR CON	CENTRATION	•	NO.	FREQUENCY	SAMPLE TYPE
PANAMETEN .		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	ANALYSIS	
Nickel, total (as Ni)	SAMPLE MEASUREMENT	*****	200100	*****	*****					500	
01067 1 0 Effluent Gross	PERMIT REQUIREMENT	eepses	******	******	*******	30DA AVG	2 DAILY MX	mg/L	•	Daily	GRAB
Zinc, total (as Zn)	SAMPLE MEASUREMENT	*****	•••••	*****	*****				<u> </u>	500	
01092 1 0 Effluent Gross	PERMIT REQUIREMENT	A Territory	*****	******	ention	30DA AVG	2 DAILY MX	mg/L	1	Daily	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.355	0.731	3	*****	*****	*****	******	0	02/30	CN
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Reg, Mon. 30DA AVG	Req. Mon. DAILY MX	Mgal/d	enbian	******	******			Twice Per Month	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT						· · ·				994.9
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT		·								
•	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										,
	PERMIT REQUIREMENT				in and the second secon		2. 4.			1000	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision in							TELEPHONE		DATE	· · · · · · · · · · · · · · · · · · ·
	properly gather and evaluation manage the system.	te the information sub or those persons dire	mitted. Based on my ir ctly responsible for gath	nquiry of the per nering the inform	son or persons nation, the	Special Company of Per		15 406-3700	7	07/18/2013	· · · · · · · ·
Plant Manager	information submitted is, aware that there are sign	ificant penalties for su			on proton i will	EXECUTIVE OFFICE		REA NUMBER	,	MMADOOO	
TYPED OR PRINTED	fine and imprisionment to	or knowing violations.			1	AUTHORIZED AC	SENT C	DDE	۱,	MM/DD/YYY	T

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- 1. No Closed Cooling System Drain Water was discharged this month.
- 2. No Service Water System drain water was discharged this month.
- 3. No Turbine Building Fire and Oil Sump or Generic Non-Chemical Cleaning wastewater was discharged this month.

FROM

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

DISCHARGE MONITORING REPORT (DMR) DMR Mailing ZIP CODE: 61010 PERMITTEE NAME/ADDRESS MAJOR IL0048313 001-0 NAME Exelon Generation Co., LLC (SUBR 01) C\$ PERMIT NUMBER DISCHARGE NUMBER ADDRESS 4300 Winfield Road Warrenville, IL 60555-5701 **COOLING SYSTEM BLOWDOWN** MONITORING PERIOD **External Outfall** FACILITY Byron Nuclear Power Station MM/DD/YYYY MM/DD/YYYY LOCATION 4450 North German Church Road 06/30/2013 *** NO DISCHARGE FROM 06/01/2013 TO Byron, IL 61010 ATTN: Zoe Cox/ENV SPEC

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION					NO. FREQUENCY		SAMPLE
<u>·</u>		VALUE	VALUE	UNITS	VALUE	VALUE	VALU	E	UNITS	EX 🔻	OF ANALYSIS	TYPE
Temperature, water deg. Fahrenheit	SAMPLE MEASUREMENT	*****	*****	*****	44444	******	91.6		15	0	01/01	CN
00011 1 0 Effluent Gross	REQUIREMENT	******	1911111		APPROP	******	Req. Ma MO MA		deg F		Daily	CONTIN
pH	SAMPLE MEASUREMENT	*****	*****	*****	8.46	******	8.76		12	0	01/07	GR
00400 1 0 Effluent Gross	PERMIT	******	equesa	224400	6 MINIMUM	*******	9 MAXIMI	JM	SU		Weekly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	00000	*****	*****	*****	3.0	3.0	- 38-	19	0	01/30	GR
D0530 1 0 Effluent Gross	PERMIT REQUIREMENT	888098	ecency	*****	anapag . vo	Req. Mon. 30DA AVG	Reg Mc		mg/L		Monthly	GRAB
Oil & Grease	SAMPLE MEASUREMENT	*****	*****	*****	*****	<1.4	<1.4		19	0	01/07	GR
00556 1 0 Effluent Gross	PERMIT 'REQUIREMENT	******	negers .	4.03.00.00	******	15 30DA AVG	20 DAILY N	ΛX	mg/L		Weekly	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	200020	*****	****	*****	<0.002	1	19	0	01/07	GR
01034 1 0 Effluent Gross	PERMIT	gengen	eosate	stace.	1111111	******	0.2 DAILY N	AX.	mp/L		Weekly	GRAB.
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	*****	190000	*****	*****	0.024		19	0	01/07	GR
01042 1 0 Effluent Gross	PERMIT	460000	*****	9.200s		\$1000	0.071 DAILY N		mg/L		Weekly	GRAB
Zinc, total (as Zn)	SAMPLE MEASUREMENT	*****	902020	*****	*****	<0.004	0.008		19	0	01/07	GR
01092 1 0 Effluent Gross	PERMIT REQUIREMENT	spense	errien.	******		:213 30DA AVG	.433 DAILY N	AX.	mg/L		Weekly	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision i	law that this document n accordance with a st	t and all attachments we ystem designed to assur	ere prepared un	der my personnel	<i>-</i>	<u> </u>	TEL	EPHONE	<u></u>	DATE	
Benjamin P. Youman	properly gather and evaluation manage the system information submitted is,	ute the information sub , or those persons dire	omitted. Based on my in	quiry of the pen	son or persons	Some of PAI	NCIPI E	815	406-3700		07/18/2013	
Plant Manager	aware that there are sign fine and imprisionment to	ificant penalties for su	bmitting latse informatio	n, including the		EXECUTIVE OFFICE	ER OR	AREA	NUMBER		MM/DD/YYY	
TYPED ON PROVIED						AUTHORIZED AG	ENT	CODE				

1/6/2012

PAGE 1

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

PERMITTEE NAME/ADDRESS

NAME

Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road
Byron, IL 61010
ATTN: Zoe Cox/ENV SPEC

IL0048313	
PERMIT NUMBER	

FROM

001-0	
DISCHARGE NUMBER	

	MONITORING PER	RIOD
MM/DD/YYYY		MM/DD/YYYY
06/01/2013	то	06/30/2013

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01)

COOLING SYSTEM BLOWDOWN

CS

External Outfall

*** NO DISCHARGE

	\ /	QUAI	ITTY OR LOADING	3	QUANTITY OR CONCENTRATION					NO.	PREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	STINU	VALUE	VALUE	VALUE	.	UNITS	EX	OF ANALYSIS	TYPE
Oxidants, total residual	SAMPLE MEASUREMENT	*****	*****	*****	******	*****	0.05		19	0	01/07	GR
34044 1 0 Effluent Gross	PERMIT REQUIREMENT	94.000	122440	*******	egrann	******	.05 DAILY M	X.	mg/L		Weekly	GRAB
Priority pollutants total effluent	SAMPLE MEASUREMENT	*****			*****	*****					500	
5 0008 1 0 Effluent Gross	PERMIT REQUIREMENT	** *9****	Req: Mon. DAILY MX	lb/g		******	Req. Mo DAILY M		· mg/L	. v. 83	Weekly	GRAB
Flow, in conduit or thru reatment plant	SAMPLE MEASUREMENT	21.38	28.54	3	*****	*****	*****		*****	0	01/01	CN
50050 1 0 Effluent Gross	PERMIT	Req. Mon. 30DA AVG	Reg. Mon. DAILY MX	MgaVq '	*******	*****		,	******		Daily	CONTIN
Chlorine, total residual	SAMPLE MEASUREMENT	*****	******	*****	*****	*****					500	
50060 1 0 Effluent Gross	PERMIT REQUIREMENT	*******	Runaga.	*****	osagge	******	.05 DAILY M	ıx	mg/L		Weakly	GRAB
lydrazine	SAMPLE MEASUREMENT	*****	*****	*****	******						500	
31313 1 0 Effluent Gross	PERMIT REQUIREMENT	*******	Çççaşa , A.	******	******	.011 30DA AVG	.027 DAILY M	ΙX	mg/L		Daily When Discharging	GRAB
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT						No.					
	I certify under penalty of					_		TEL	EPHONE		DATE	
Saniania S. Marrasa	direction or supervision is properly gather and evals	te the information sul	omitted. Based on my in	nquiry of the per	son or persons	SmiD.Cd	m-	815	406-3700			
·	who manage the system, information submitted is,					GNATURE OF PRI					07/18/2013	·
Flam Manager	aware that there are sign	ificant penalties for su							NUMBER		MM/DD/YYY	γ
	ON OF ANY VIOLAT	RONS (Reference	all attachments h	ere)						<u> </u>		
Flam Manager	aware that there are sign fine and imprisionment fo	ificant penalties for su or knowing violations.	bmitting false information	on, including the		EXECUTIVE OFFIC AUTHORIZED AC		AREA	NUMBER		MM/D	ID/YYY
Form 3320-1 (Rev 01/06) F												

PERMITTEE NAME/ADDRESS

Exelon Generation Co., LLC NAME

Byron, IL. 61010

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

Byron Nuclear Power Station LOCATION 4450 North German Church Road FROM

IL0048313	
 PERMIT NUMBER	

002-0	
DISCHARGE NUMBER	

MONITORING PERIOD						
MM/DD/YYYY		MM/DD/YYYY				
06/01/2013	το	06/30/2013				

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01) CS

STORMWATER RUNOFF BASIN

External Outfall

*** NO DISCHARGE X

ATTN: Zoe Cox/ENV SPEC

FACILITY

			NTITY OR LOADING		· ·	NUANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF :	TYPE
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	ларуер	*****		15 30DA AVG.	30 DAILY,MX	mg/L	\$ 2 V	Weekly	GRAB
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
00530 8 0 Other Treatment, Process Complete	PERMIT REQUIREMENT	elenen.	4	Angewa Angewa		30 30DA AVG	100 DAILY MX	mg/L		Weekly	GRAB
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****						500	
01032 1 0 Effluent Gross	PERMIT REQUIREMENT		en prin	###### *.*** **** }	paras	,011 30DA AVG	.016 DAILY MX	mg/L		Daily	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	ė mpa po	*****	,					500	
01034 1 0 Effluent Gross	PERMIT REQUIREMENT	veksaev	A diparts	A	egistas	30DA AVG	DAILY MX	mg/t	33 - √	Paily	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	******	******	*****					500	
01042 1 0 Effluent Gross	PERMIT REQUIREMENT	***	***************************************	200,000	proses	.025 30DA AVG	.041 DAILY MX	mg/L		Daily	GRAB
iron, total (as Fe)	SAMPLE MEASUREMENT	*****	*****	210101	*****	*****				500	
01045 1 0 Effluent Gross	PERMIT	940989		adotes.	*****	gonera	DAILÝ MX	∴ mg/l.		Daily	GRAB
Lead, total (as Pb)	SAMPLE MEASUREMENT	944344	******	*****	*****					500	
01051 1 0 Effluent Gross	PERMIT REQUIREMENT	9.00 mm	Appendix	*******	******* *****************************	,063 30DA AVG	.298 DAILY MX	mg/L		Daily	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I centify under penalty of i direction or supervision in	n accordance with a sy	stem designed to assur	re that qualified	personnel		TE	EPHONE		DATE	
Benjamin P. Youman	properly gather and evalu who manage the system,	ite the information sub or those persons dire	omitted. Based on my in actly responsible for gath	iquiry of the pen lering the inform	son or persons lation, the	SMANURE OF PRI	815	406-3700		07/18/2013	
Plant Manager	aware that there are sign	mation submitted is, to the best of my knowledge and belief, true, accurate, and complete that there are significant penalties for submitting false information, including the poss and imprisionment for knowing violations.				EXECUTIVE OFFIC		NUMBER		MM/DD/YYYY	<u> </u>

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- 1. No Turbine Building Fire and Oil Sump or Generic Non-Chemical Metal Cleaning Wastewater was discharged this month.
- 2. No Fire Protection or Service Water System Drain Water was discharged this month.
- 3. No Closed Cooling System Drain Water was discharged this month.

EPA	Form	3320-1	(Rev 01/06)	Previous editions	may h	hazu ar

1/6/2012

PERMITTEE NAME/ADDI	2220

NAME Exelon Generation Co., LLC ADDRESS 4300 Winfield Road

Warrenville, II 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

11001		. 00	*********	Ollar
Byron,	EL (6101	0	

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

FROM

 ,
DISCHARGE MONITORING REPORT (DMR)

IL0048313 002-0 DISCHARGE NUMBER PERMIT NUMBER

MONITORING PERIOD					
MM/DD/YYYY		MM/DD/YYYY			
06/01/2013	то	06/30/2013			

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01)

STORMWATER RUNOFF BASIN **External Outfall**

CS

*** NO DISCHARGE X

1/6/2012

PARAMETER		QUANTITY OR LOADING				QUANTITY OR CONCENTRATION				NO.	FREQUENCY	SAMPLE
PARABEIER		VALUE	VALUE	UNITS	VALUE	VALUE	VALU	E	UNITS	EX	OF ANALYSIS	TYPE
Nickel, total as Ni)	SAMPLE MEASUREMENT	*****	*****	******	*****						500	
01067 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	******	epper	*******	.011 30DA AVG	176 DAILY		mg/L		Daily	GRAB
Zinc, total as Zn)	SAMPLE MEASUREMENT	*****	*****	*****							500	
)1092 1 0 Effluent Gross	PERMIT REQUIREMENT	aiosea	wega ka	******	goesno -//-	047 30DA AVG	.26 DAILY		mg/L		Daily	GRAB
Oil and Grease	SAMPLE MEASUREMENT	*****	*****	*****	*****						500	
3582 1 0 Effluent Gross	PERMIT REQUIREMENT.	enessa.	#20000	80000	*****	15 30DA AVG	20 DAILY		ing/L		When Discharging	GRAB
Tow, in conduit or thru reatment plant	SAMPLE MEASUREMENT				*****	*****	*****	1	*****		500	
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. 30DA AVG	Req: Mon. DAILY MX	Mgal/d	Asses	*******	******		848008		Witen Discharging	ESTIMA
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT										,	
	PERMIT REQUIREMENT				-		, V				THE STATE OF THE S	
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision in					_		TEI	EPHONE		DATE	<u> </u>
Benjamin P. Youman	properly gather and evalues who manage the system	ute the information sub , or those persons dire	omitted. Based on my in actly responsible for gati	nquiry of the per nering the inform	son or persons	SMANURE OF SA	MCIBI E	815	406-3700		07/18/2013	
Plant Manager	information submitted is, aware that there are sign tine and imprisionment to	nificant penalties for su	wiedge and belief, true, obmitting false information	accurate, and c on, including the		EXECUTIVE OFFICE	ER OR	AREA	NUMBER		MM/DD/YYY	 Y
TYPED OR PRINTED						AUTHORIZED AC	GENT	CODE				•

ATTACHMENT TO COOLING SYSTEM BLOWDOWN (Outfall 001-0) DISCHARGE MONITORING REPORT

For Exelon Byron Station Permit IL0048313 June 2013 Page 1 of 2

MONITORING DATA:

MONITORING	CWBD	OWDE T	Rock River
DATE	Temperature	CWBD Flow	Flow
	deg F	mgd	cfs
06/01/2013	86.1	21.55	10,400
06/02/2013	85.0	18.66	10,400
06/03/2013	77.8	19.69	10,100
06/04/2013	78.2	20.64	9,670
06/05/2013	79.4	19.29	9,390
06/06/2013	79.4	19.67	9,430
06/07/2013	79.0	21.51	9,270
06/08/2013	77.5	24.99	9,020
06/09/2013	85.7	25.38	8,710
06/10/2013	85.7	10.59	8,500
06/11/2013	86.0	20.54	8,210
06/12/2013	88.9	20.74	7,990
06/13/2013	88.9	20.33	8,420
06/14/2013	84.1	20.42	8,510
06/15/2013	87.2	25.44	8,320
06/16/2013	87.2	25.22	8,080
06/17/2013	86.6	16.76	7,780
06/18/2013	85.6	21.17	7,560
06/19/2013	78.7	20.58	7,430
06/20/2013	88.2	25.40	7,190
06/21/2013	88.4	19.89	7,280
06/22/2013	88.3	26.03	10,500
06/23/2013	88.3	20.86	13,600
06/24/2013	88.3	14.89	14,100
06/25/2013	91.6	22.95	15,300
06/26/2013	89.9	21.49	20,100
06/27/2013	89.4	23.09	26,800
06/28/2013	88.8	22.27	28,600
06/29/2013	85.9	28.54	25,600
06/30/2013	83.6	22.90	25,900

ATTACHMENT TO COOLING SYSTEM BLOWDOWN (Outfail 001-0) DISCHARGE MONITORING REPORT

For Exelon Byron Station Permit IL0048313 June 2013 Page 2 of 2

HYDRAZINE MONITORING:

There were no steam generator chemical cleaning solutions (or associated rinses) containing hydrazine discharged to the Cooling System Blowdown during the month of June 2013.

TOTAL QUANTITY DISCHARGED: N/A

TOTAL DURATION OF DISCHARGE: N/A

COMMENTS:

- 1. Sodium Hypochlorite and Bromine compounds were used this month.
- 2. There was no discharge of steam generator chemical cleaning wastewater containing hydrazine in this month.
- 3. Flow existed through this outfall 30 of 30 days.
- 4. Per Special Condition 24 the influent from the Rock River and effluent from Outfall 001-0 was monitored for Total Suspended Solids (TSS) this month. The Rock River TSS value was 29.3 mg/L on 06/10/2013. The CWBD TSS value was 3.0 mg/L on 06/10/2013.
- 5. Rock River flow for June 2013 was >2400 cfs therefore daily temperature calculations were not required this month. (Special Condition 12).
- 6. There was no discharge of the 126 Priority Pollutants from cooling tower maintenance chemicals in June 2013. (Special Condition 15).



Exelon Generation Company, LLC Byron Station 4450 North German Church Road Byron, IL 61010-9794 www.exeloncorp.com

Nuclear

August 26, 2013

LTR: BYRON 2013-0114

File: 2.09.0411

1.10.0101

Illinois Environmental Protection Agency Water Pollution Control Compliance Assurance Section #19 1021 North Grand Avenue East P.O. Box 19276 Springfield, IL 62794-9276

Subject: Byron S

Byron Station Monthly Discharge Monitoring Report

In accordance with National Pollutant Discharge Elimination System (NPDES) Permit Number IL0048313, issued January 24, 2011, we are submitting the Discharge Monitoring Report for Byron Station, Units 1 and 2. This report covers the period of July 1, 2013 through July 31, 2013.

If there are any questions regarding this report, please contact Ms. Zoe Cox, Environmental/Radwaste Supervisor, at (815) 406-3035.

Respectfully,

Benjamin P. Youman

Plant Manager

Byron Nuclear Generating Station

BPY/ZC/eh Attachments

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

FACILITY Byron Nuclear Power Station

LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	
PERMIT NUMBER	

	A01-0		
DISCH	IARGE N	UMBER	

	MONITO	DRING PE	RIOD
	MM/DD/YYYY		MM/DD/YYYY
FROM	07/01/2013] το[07/31/2013

-	Mailing	710	CODE
UMIN	manniy		

61010

MAJOR

(SUBR 01) CS

DEMINERALIZER REGENERATE WASTE (001A) External Outfali

*** NO DISCHARGE .***

1/6/2012

		QUANTITY OR LOADING				QUANTITY OR CONCENTRATION				NO. FREQUEN		SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE		UNITS	EX	OF ANALYSIS	TYPE
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	400000	*****	*****	<1.01	<1.03		19	0	01/30	08
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	dagous	15 30DA AVG	30 DAILY M	X	mg/L		Monthly -	COMP-8
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****						500	
01032 1 0 Effluent Gross	PERMIT	ganang	******		- Garage	30DA AVG	2 DAILY M	ΙΧ	mg/L		Daily	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	******	*****	*****	*****						500	·
01034 1 0 Effluent Gross	PERMIT REQUIREMENT	27.5%	****	890000	denoge	30DA AVG	7 2 DAILY M		mg/l_		Daily	GRAB .
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	*****	*****	******						500	
01042 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	enegas .	indana	******	30DA AVG	DAILY M	X.	mg/L		Daily	GRAB
iron, total (as Fe)	SAMPLE MEASUREMENT	*****	*****	*****	******	*****					500	
01045 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	. (1)111		agmy++	DAILYM	X.	mg/L:	14.7 14.1	Daily	GRAB
Lead, Total (as Pb)	SAMPLE MEASUREMENT	*****	*****	*****	*****						500	
01051 1 0 Effluent Gross	PERMIT. REQUIREMENT	******	******	209-20	*******	2 30DA AVG	DAILY M		mg/L		Daily	GRAB
Nickel, total (as Ni)	SAMPLE MEASUREMENT	*****	*****	*****	*****						500	
01067 1 0 Effluent Gross	REQUIREMENT	******	heavite.	*******	\$2.000g	30DA AVG	DAILY M	X	mg/L		Daily	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICE	mecani or anheration	n accordance with a s	ystem designed to assu	re that qualified	personnel			TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and eval who manage the system information submitted is,	n, or those persons din	actly responsible for gat	hering the inform	nation the	SIGNATURE OF PRI	HOPLE	815	406-3700		08/26/2013	
Plant Manager	aware that there are sign fine and imprisionment for	nificant penalties for su				EXECUTIVE OFFICE	ER OR	AREA	NUMBER	<u> </u>	MM/DD/YYY	Y
COMMENTS AND EXPLANA	ATION OF ANY VIOLA	TIONS (Reference	e all attachments h	nere)				CUDE		L		····
I. There was no discharge o					onth.							
2. Flow existed 31 of 31 day	s during this month.											

			ľ				MINATION SYSTI REPORT (DMR)	EM (NPDES)	OMR Mailin	ng ZIP C	ODE:	61010	
PERMITTEE NAME ADDRESS	E NAME/ADDRES Exelon General 4300 Winfield F	ation Co., LLC	ſ	IL004		= =	A01-0 DISCHARGE NUI	MBER	MAJOR (SUBR 01)		cs		
Warrenville, IL 60555-5701 FACILITY Byron Nuclear Power Station		ı			ONITORING PERI					REGENERATE W	ASTE (001A)		
		FROM	MM/DD 07/01/	D/YYYY	TO	MM/DD/YYY 07/31/2013		External Outfall ***NO DISCHARGE					
ATTN: Zoe	Byron, IL 6101 Cox/ENV SPEC		_			_							
PAI	RAMETER		QUAN	VALUE	UNITS	VALUE	QUANTITY OR CON VALUE	VALUE	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
Zinc, Total (as Zn)	SAMPLE MEASUREME		*****	*****	440000	40000					500		
01092 1 0 Effluent Gros	oss	PERMIT REQUIREMENT	george	papada	estape 2	e e é e e e	1 30DA AVG	2 DAILY MX	mg/L		Daily	GRAB	
Flow, in cont treatment pla	duit or thru	SAMPLE MEASUREMENT	0.057	0.243	3	*****	*****	400040	*****	0	01/01	ES	
50050 1 0 Effluent Gros		PERMIT REQUIREMENT	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	Mgai/d		The senger to	emana.	292400	13	Daily	CONTIN	
		SAMPLE MEASUREMENT											
		PERMIT REQUIREMENT) Jenak								
		SAMPLE MEASUREMENT											
		PERMIT REQUIREMENT											
		SAMPLE MEASUREMENT								<u> </u>			
		PERMIT REQUIREMENT			Á.								
		SAMPLE MEASUREMENT											
		REQUIREMENT									Estate of		

NAME/TITLE
PRINCIPAL EXECUTIVE OFFICER

Benjamin P. Youman

I certify under penalty of law th direction or supervision in accomproperly gather and evaluate the who manage the system, or the

Plant Manager

TYPED OR PRUITED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evalute the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of line and imprisionment for knowing violations.

		EPHONE	DATE
SIGNATURE OF PRINCIPLE	815	406-3700	08/26/2013
EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SAMPLE MEASUREMENT PERMIT REQUIREMENT

1.	Flows for July 2013 are estimated based on July 2012 values due to totalizers being Out of Service.	The totalizers are an obsolete model and work orders are in place to fine
	replacement totalizers and get them installed in the system.	

EPA Form 3320-1 (Rev 01/06)	Previous editions may be used.
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1/6/2012

DEDME	TEC N	A & 4 = / A F	DRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY **Byron Nuclear Power Station** LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	B01-0
PERMIT NUMBER	DISCHARGE NUMBER

	MONITO	RING	PERIOD	-
	MM/DD/YYYY		MM/DD/YYYY	
FROM	07/01/2013	то	07/31/2013	

DMR	Mailing	7IP	CODE:
vain	maiiiiiiii	45	CODE:

61010

MAJOR (SUBR 01)

CS

STP PLANT EFFLUENT (FORMER 001B)

External Outfall

*** NO DISCHARGE

ATTN: Zoe Cox/ENV SPEC FREQUENCY QUANTITY OR CONCENTRATION QUANTITY OR LOADING SAMPLE NO. PARAMETER OF EX TYPE VALUE VALUE UNITS VALUE VALUE VALUE UNITS ANALYSIS BOD 5-Day SAMPLE 0.28 26 35 4.0 02/30 0.33 19 0 24 (20 Deg. C) MEASUREMENT 00310 1 0 PERMIT 10.5 **30** 60 5.3 ·-----lb/d mg/L Twice Per Month COMP24 REQUIREMENT **BVA ADOS** DAILY MX 30DA AVG DAILY MX Effluent Gross SAMPLE ***** **** loн 7.31 7.47 12 ٥ 02/30 GR MEASUREMENT 00400 1 0 PERMIT 9 : **** **** SU-Twice Per Month GRAB REQUIREMENT MINIMUM MAXIMUM Effluent Gross SAMPLE Solids, total suspended 0.12 0.19 26 <1.3 2.3 19 0 02/30 24 MEASUREMENT 00530 1 0 PERMIT 5.3 10.5 30 - 60 lb/d mg/L Twice Per Month COMP24 REQUIREMENT **30DA AVG** DAILY MX DAILY MX Effluent Gross **30DA AVG** Flow, in conduit or thru SAMPLE 0.006 0.011 3 0 01/01 CN treatment plant MEASUREMENT 50050 1 0 PERMIT Reg. Mon. Reg. Mon. Mgal/d CONTIN , Daily REQUIREMENT 30DA AVG DAILY MX Effluent Gross SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT ٠., REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT NAME/TITLE certify under penalty of law that this document and all attachments were prepared under my TELEPHONE DATE PRINCIPAL EXECUTIVE OFFICER direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evalute the information submitted. Based on my inquiry of the person or persons 815 406-3700 Benjamin P. Youman who manage the system, or those persons directly responsible for gathering the information, the 08/26/2013 SIGNATURE OF PRINCIPLE information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of Plant Manager **EXECUTIVE OFFICER OR** AREA NUMBER MM/DD/YYYY fine and imprisionment for knowing violations. TYPED OR PRINTED **AUTHORIZED AGENT** CODE COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) 1. Flow existed through this outfall 30 of 31 days during this month. EPA Form 3320-1 (Rev 01/06) Previous editions may be used. 1/6/2012 PAGE 1

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	C01-0
PERMIT NUMBER	DISCHARGE NUMBER

	MON	ITORING	PERIOD	
	MM/DD/YYYY		MM/DD/YYYY	
MC	07/01/2013	TO	07/31/2013	

DMR	Mailing	ZIP	CODE:
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61010

MAJOR

(SUBR 01) CS

WWTP (FORMER 001C) External Outfall

*** NO DISCHARGE .***

DADAMETED		QUAI	TITY OR LOADING	3	,	QUANTITY OR CONCENTRATION			NO.	SAMPLE	
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	3.0	3.5	19	0	02/30	24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	designed September	*****	Action	220009	15 30DA AVG	30 DAILY MX	mg/L		Twice Per Month	COMP24
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01032 1 0 Effluent Gross	PERMIT REQUIREMENT	nepagi.	prospe	\$****** \$		30DA AVG	DAILY MX	mg/L		Daily	GRAB
Chromium, total as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01034 1 0 Effluent Gross	PERMIT REQUIREMENT	******	mpre q g	*****	64,6640	30DA AVG	DAILY MX	₩8√F	1.4	Daily	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01042 1 0 Effluent Gross	PERMIT REQUIREMENT	40000	uqqa sa	*****	*******	30DA AVG	DAILY MX	mg/E	***	Daity	GRAB
ron, total as Fe)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****				500	
01045 1 0 Effluent Gross	PERMIT REQUIREMENT	******	*******	annyan K	egopus	parred .	DAILYMX	mg/L-2		Daily	GRAB
Lead, total (as Pb)	SAMPLE MEASUREMENT	*****	*****	*****	220140					500	
01051 1 0 Effluent Gross	PERMIT REQUIREMENT	-	900000	Sample	apanyo	2 30DA AVG	A DAILY MX	ώοντ	3	Daily	GRAB
vickel, total as Ni)	SAMPLE MEASUREMENT	01000	******	*****	*****					500	
01067 1 0 Effluent Gross	PERMIT REQUIREMENT	annes	499888	******	easone	30DA AVG	DAILY MX	mg/L		Daily	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision in	n accordance with a sy	stem designed to assu	e that qualified	personnel			LEPHONE		DATE	
Benjamin P. Youman	who manage the system,	arly gather and evalute the information submitted. Based on my inquiry of the person or persons manage the system, or those persons directly responsible for gathering the information, the					MCIPLE 815	406-3700		08/26/2013	
Plant Manager	aware that there are sign	tion submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am hat there are significant penalties for submitting false information, including the possibility of I imprisionment for knowing violations.				SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT CODE			MM/DD/YYYY		
OMMENTS AND EXPLANAT	ION OF ANY VIOLAT	ΠONS (Reference	all attachments h	ere)	<u></u>		1000	<u> </u>	L		
. There was no discharge of p . Flow existed through this ou	rocessed steam gene	erator chemical cle		•	onth.						
EPA Form 3320-1 (Rev 01/	·—·										

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY **Byron Nuclear Power Station** LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	C01-0	
PERMIT NUMBER	DISCHARGE NU	IBER

	MONITORING PERIOD									
	MM/DD/YYYY		MM/DD/YYYY							
FROM	07/01/2013	TO	07/31/2013							

DMR Mailing ZIP CODE: MAJOR

(SUBR 01) CS

WWTP (FORMER 001C) **External Outfall**

***NO DISCHARGE

61010

D. D		QUAI	ITITY OR LOADING			QUANTITY OR CONCENTRATION					NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE		VALUE	VALU	E	UNITS	EX	OF ANALYSIS	TYPE
inc, total as Zn)	SAMPLE MEASUREMENT	*****	******	*****	*****							500	
11092 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	479 444	*****	şaqqaq.		1. 30DA AVG	2 DAILY I	ΑX	mg/} `		Daily	GRAB
Tow, in conduit or thru reatment plant	SAMPLE MEASUREMENT	0.024	0.041	3	*****		*****	*****		*****	0	01/01	CN
0050 1 0 Iffluent Gross	PERMIT REQUIREMENT	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	Mgal/d	110000		******	******		i. 90000		Daily	CONTIN
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
	SAMPLE MEASUREMENT				·								
	PERMIT REQUIREMENT							• •	4				**
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT										- 145		
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT									1.5 47 = 7			1
NAME/TITLE RUNCIPAL EXECUTIVE OFFICER	i certify under penalty of direction or supervision in	law that this documen accordance with a s	t and all attachments waystem designed to assu	ere prepared un	der my personnel				TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evail who manage the system,	ite the information sub , or those persons dire	brnitted. Based on my in actly responsible for gath	nquiry of the per hering the inform	son or persons ation, the	SIG	Samon R	MCIPLE	815	406-3700		08/26/2013	;
	aware that there are sign	to the best of my knowledge and belief, true, accurate, and complete. I am nificant penalties for submitting false information, including the possibility of or knowling violations.				SIGNATURE OF PILINCIPLE EXECUTIVE OFFICER OR			AREA NUMBER		MM/DD/YYYY		
Plant Manager	Ifine and imprisionment to						AUTHORIZED AC	2CNT	CODE		1		•

PERMITTEE NAME/ADDRESS

Exelon Generation Co., LLC NAME

4300 Winfield Road **ADDRESS** Warrenville, IL 60555-5701

FACILITY **Byron Nuclear Power Station** 4450 North Garman Church Boad LOCATION

445U NON	n German	Church	HORO
Byron, IL	61010		

DISCHARGE MONIT	ORING REPORT (DMR)	
 · · · · · · · · · · · · · · · · · · ·		

IL0048313	D01-0
PERMIT NUMBER	DISCHARGE NUMBER

1	MONITORING PERIOD					
	MM/DD/YYYY		MM/DD/YYYY			
FROM	07/01/2013	то	07/31/2013			

DMR Mailing Zi	61010	
MAJOR		
(SUBR 01)	CS	
RADWASTE TR	EATMENT (FOR	IMER (101D)
External Outfal	ı	
*** NO	DISCHARGE	

ATTN: Zoe Cox/ENV SPEC FREQUENCY **QUANTITY OR CONCENTRATION** QUANTITY OR LOADING NO. SAMPLE OF PARAMETER EX TYPE VALUE VALUE UNITS **VALUE** VALUE VALUE UNITS **ANALYSIS** SAMPLE ***** ***** ***** 2.0 3.3 19 02/30 CP Solids, total suspended MEASUREMENT 15 30 00530 1 0 PERMIT **** -****** mg/L Twice Per Month COMPOS DAILY MX. 30DÁ AVG REQUIREMENT **Effluent Gross** Flow, in conduit or thru SAMPLE ***** 3 ***** **** Ω 01/01 CN 0.022 0.023 treatment clant MEASUREMENT 50050 1 0 PERMIT Req. Mon. Reg. Mon. Daily . Mgal/d __ ipopies CONTIN DAILY MX REQUIREMENT 30DA AVG Effluent Gross SAMPLE MEASUREMENT PERMIT , ... £ REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT NAME/TITLE I certify under penalty of law that this document and all attachments were prepared under my TELEPHONE DATE PRINCIPAL EXECUTIVE OFFICER direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evalute the information submitted. Based on my inquiry of the person or persons 406-3700 815 I Benjamin P. Youman who manage the system, or those persons directly responsible for gathering the information, the 08/26/2013 information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of EXECUTIVE OFFICER OR Plant Manager ARE/ NUMBER MM/DD/YYYY fine and imprisionment for knowing violations. TYPED OR PRINTED **AUTHORIZED AGENT** CODI COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) 1. Flow existed through this outfall 6 of 31 days during the month. EPA Form 3320-1 (Rev 01/06) Previous editions may be used. 1/6/2012 PAGE 1

PERMITTEE NAME/ADDRESS

NAME

Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY LOCATION 4450 North German Church Road

Byron Nuclear Power Station

Byron, IL 61010

IL0048313	
ILUVTOOIQ	
PERMIT NUMBER	
L FLMMI 140MDFL	

FROM

E01-0	
DISCHARGE NUMBER	

E01-0	
DISCHARGE NUMBER	

MONITORING PERIOD					
MM/DD/YYYY		MM/DD/YYYY			
07/01/2013	то	07/31/2013			

DMR	Mail	ing	ZIP	CO	DE:
-----	------	-----	-----	----	-----

MAJOR

(SUBR 01) CS

STORMWATER (FORMER 001E) **External Outfall**

*** NO DISCHARGE

61010

DADA45555		NTTTY OR LOADING	Y OR LOADING		QUANTITY OR CONCENTRATION			NO.	FREQUENCY	SAMPLE	
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF TYPE	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
00530 1 0 Effluent Gross	PERMIT' REQUIREMENT		******	#1###O	******	15 30DA AVG	30 DAILY MX	mg/L		Weekly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	414111					500	
00530 8 0 Other Treatment, Process Complete	PERMIT REQUIREMENT		Banagar.	919111	equesa ***	30 30DA AVG	100 DAILY MX	mo/L		Weekty	GRAB
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	*****	*****	110000	44444					500	
01032 1 0 Effluent Gross	PERMIT REQUIREMENT	aspape	\$19F0F		guqua.	30DA AVG	.2 DAILY MX	mg/L		Daily	. GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	Réstes					500	
01034 1 0 Effluent Gross	PERMIT REQUIREMENT	******	aangag.	******	******	30DA AVG	DAILY MX	mg/L		Daily	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	*****	******	412141					500	
01042 1 0 Effluent Gross	PERMIT REQUIREMENT	enenge M	ereary	*****	apanga	.5 30DA AVG	DAILY MX.	mg/L		Daily	GRAB
Iron, total (as Fe)	SAMPLE MEASUREMENT	*****	******	*****		*****				500	
01045 1 0 Effluent Gross	PERMIT REQUIREMENT	******	000000	******	909000-	*****	DAILY MX	mg/L		Daily_	GRAB
Lead, total (as Pb)	SAMPLE MEASUREMENT	*****	*****	*****	******					500	
01051 1 0 Effluent Gross	PERMIT REQUIREMENT	******	Bronce	8000pp	gunna	30DA AVG	DAILY MX	mg∕t.		Qaily	GRAB.
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision t	n accordance with a s	ystem designed to assu	re that qualified	personnel	0 ' 1	Т	ELEPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system information submitted is,	, or those persons dire	ectly responsible for gat	hering the inform	nation, the	Smart!	CIPLE 81	5 406-3700		08/26/2013	
Plant Manager	aware that there are sign fine and imprisionment to	nificant penalties for su	bmitting false information	on, including the		EXECUTIVE OFFIC	ER OR ARE	INUMBER		MM/DD/YYY	Υ
COMMENTS AND EXPLANAT					L	AUTHORIZED AG	ENT COL	DE	<u> </u>		

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- 1. There was no discharge of processed steam generator chemical cleaning wastewater during the month.
- 2. Flow existed through this outfall 2 of 31 days during the month.
- 3. There was no discharge of Fire Protection drain water during the month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron,	ΙL	610	10
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IL0048313	E01-0
PERMIT NUMBER	DISCHARGE NUMBER

ſ	MONITO	RING	PERIOD	
ı	MM/DD/YYYY		MM/DD/YYYY	
ul	07/01/2013	TO	07/31/2013	

	DMR	Mailing	ZIP	CODE
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MAJOR

(SUBR 01)

STORMWATER (FORMER 001E)

CS

External Outfall

... NO DISCHARGE

61010

0.04445750		QUAN	TITY OR LOADING	G	C	QUANTITY OR CONCENTRATION					NO. FREQUENCY		
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALU	E	UNITS	EX	ANALYSIS	TYPE	
vickel, total as Ni)	SAMPLE MEASUREMENT	*****	*****	******	******						500		
01067 1 0 Effluent Gross	PERMIT REQUIREMENT	popupu	THE STATE OF THE S	**************************************	Acque	30DA AVG	2 DAILY I	ΛX	wô⁄ŗ		- Daily	GRAB	
Zinc, total as Zn)	SAMPLE MEASUREMENT	*****	*****	*****	*****						500		
01092 1 0 Effluent Gross	PERMIT REQUIREMENT	400494	rengen	00000	Basee	30DA AVG	2 DAILY I	AX	mg/L		Daily	GRAB	
low, in conduit or thru reatment plant	SAMPLE MEASUREMENT	0.178	0.209	3	*****	410410	*****		200000	0	02/30	CN	
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. 300A AVG	Req. Mon.	MgaVd	44444	22.70 2	****	• •	******		Twice Per Month	CONTIN	
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT			*							A Committee		
	SAMPLE MEASUREMENT				<u> </u>								
	PERMIT REQUIREMENT				To the same								
	SAMPLE MEASUREMENT								· · · · · ·				
	PERMIT REQUIREMENT			1. July 10		1.00							
	SAMPLE MEASUREMENT											., .	
	PERMIT REQUIREMENT									, i			
	I certify under penalty of direction or supervision i	n accordance with a s	ystem designed to assu	ire that qualified	personnel	^ ·¬.	,	TIEL	EPHONE		DATE		
properly gather and evalute the information submitted. Based on my inquiry of the who manage the system, or those persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate, and				hering the infor	nation, the	Sman //	NCIPLE	815	406-3700		08/26/2013		
	aware that there are sign	nificant penalties for su							AREA NUMBER		MM/DD/YYYY		
TYPED OR PRINTED	mic and authorization of	and imprisionment for knowing violations. AUTHORIZED AGENT CODE							anny DUTTTT				

3. No Turbine Building Fire and Oil Sump or Generic Non-Chemical Metal Cleaning wastewater was discharged this month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

PERMIT	ree :		AC / A	200	200
PERMIT		NAN	ALJP	ww	1233

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY **Byron Nuclear Power Station**

LOCATION 4450 North German Church Road

FROM

Byron,	IL	610	10
--------	----	-----	----

NATIONAL POLLUTANT	DISCHARGE	ELIMINATION 5	TO I EM (NPDES
DISCHARO	E MONITORIN	IG REPORT (D!	MR)

IL0048313 001-0 PERMIT NUMBER DISCHARGE NUMBER

MONITORING PERIOD								
MM/DD/YYYY MM/DD/YYYY								
07/01/2013	то	07/31/2013						

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01)

CS

COOLING SYSTEM BLOWDOWN External Outfall

• •	NO	DISCHAF	GE		•	
	n.	DISCHAR	IUE I	 		

24244		QUAI	QUANTITY OR LOADING QUANTITY OR CO						NO. FREQUENCY		SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
l'emperature, water deg. Fahrenheit	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	94.2	15	0	01/01	CN
20011 1 0 Effluent Gross	PERMIT REQUIREMENT	adequa.	******	*******	*******	*****	Req. Mon.	deg F		Daily	CONTIN
Н	SAMPLE MEASUREMENT	******	*****	*****	8.30	******	8.63	12	0	01/07	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	;eesepe	******	800000	6 MINIMUM	*******	9 MUMIXAM	SÙ		Weekly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	*4****	*****	*****	*****	42.0	42.0	19	0	01/30	GR
0 0530 1 0 Effluent Gross	PERMIT REQUIREMENT	129.000	000000		guatos	Req. Mon: 30DA AVG	Req. Mon. DAILY MX	mg/L	- 3	Monthly	GRAB
Oil & Grease	SAMPLE MEASUREMENT	*****	*****	*****	*****	<1.4	<1.4	19	0	01/07	GR
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	*****		200000	******	15. 30DA AVG	20 ' DAILY MX	mg/L	3.13	Weekly	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	******	****	0.005	19	0	01/07	GR
01034 1 0 Effluent Gross	PERMIT REQUIREMENT	******	essyan	******* ******	quine.	990448	0,2 DAILY MX	mg/L		Weekly	- GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.025	19	0	01/07	GR
)1042 1 0 Effluent Gross	PERMIT REQUIREMENT	easter.	eerann	******	gatore	******	0.071 DAILY MX	mg/L		Weekly	GRAB
Zinc, total (as Zn)	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.008	0.026	19	0	01/07	GR
01092 1 0 Effluent Gross	PERMIT REQUIREMENT	46499	-	******	*****		433 DAILY MX	mg/L	*	Weekly	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER) certify under penalty of direction or supervision in					0, 0	TE	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system, information submitted is,	, or those persons dire	ectly responsible for gati	hering the inform	nation, the	Sman V LA	NCIPLE 815	406-3700		08/26/2013	
Plant Manager	aware that there are sign	ificant penalties for su	bmitting talse information	on, including the		EXECUTIVE OFFIC		NUMBER			
TYPED OR PRINTED	fine and imprisionment to					AUTHORIZED AG	ENT CODE	NUMBER		MM/DD/YYY	7
COMMENTS AND EXPLANATE Monitoring data for outfall 0			ali attachments h	nere)							

250	4	 40140	DRESS

NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FROM

FACILITY
Byron Nuclear Power Station
4450 North German Church Road
Byron, IL 61010

IL0048313	001-0
120010010	
PERMIT NUMBER	DISCHARGE NUMBER
, prant resident	

MM/DD/YYYY MM/DD/YYYY
07/01/2013 TO 07/31/2013

DMR Mailing ZIP CODE: MAJOR

61010

(SUBR 01)

CS

COOLING SYSTEM BLOWDOWN

External Outfall

***NO DISCHARGE ***

ATTN: Zoe Cox/ENV SPEC **QUANTITY OR LOADING** QUANTITY OR CONCENTRATION FREQUENCY NO. SAMPLE PARAMETER **QF VALUE** VALUE UNITS VALUE VALUE VALUE TYPE UNITS EX ANALYSIS SAMPLE Oxidants, total residual ***** ***** ***** ***** ***** 0.04 19 0 01/07 GR MEASUREMENT RERMIT 34044 1 0 05 ***** ****** Weekly GRAB mg/L REQUIREMENT DAILY MX **Effluent Gross** SAMPLE Priority poliutants total effluent ***** 500 MEASUREMENT 50008 1 0 PERMIT Reg. Mon. Req. Mon. **** lb/d GRAB mg/L Weekly DAILY MX DAILY MX Effluent Gross REQUIREMENT Flow, in conduit or thru SAMPLE 22.48 32.58 3 ***** 0 01/01 CN treatment plant MEASUREMENT 50050 1 0 PERMIT Req. Mon: Req. Mon. Mga/d nueses. **** fergesp CONTIN Daily REQUIREMENT Effluent Gross 30DA AVG DAILY MX SAMPLE Chlorine, total residual ***** ***** ***** 500 MEASUREMENT 50060 1 0 PERMIT .05 **** ***** ***** mg/L Weekly GRAB REQUIREMENT DAILY MX Effluent Gross SAMPLE Hydrazine ***** ***** ***** 500 MEASUREMENT 81313 1 0 PERMIT. .011 .027 Daily When mg/L GRAB: REQUIREMENT Effluent Gross 30DA AVG DAILY MX Discharging SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT · ... REQUIREMENT NAME/TITLE certify under penalty of law that this document and all attachments were prepared under my TELEPHONE DATE **PRINCIPAL EXECUTIVE OFFICER** direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evalute the information submitted. Based on my inquiry of the person or persons 815 406-3700 Benjamin P. Youman SIGNATURE OF BRINCIPLE EXECUTIVE OFFICER OR who manage the system, or those persons directly responsible for gathering the information, the 08/26/2013 information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am Plant Manager AREA aware that there are significant penalties for submitting false information, including the possibility of NUMBER MM/DD/YYYY TYPED OR PRINTED **AUTHORIZED AGENT** CODE fine and imprisionment for knowing violations. COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) EPA Form 3320-1 (Rev 01/06) Previous editions may be used. 1/6/2012 PAGE 2

DISCHARGE MONITORING REPORT (DMR)

DMR Mailing ZIP CODE: MAJOR

(SUBR 01)

61010

PERMITTEE NAME/ADDRESS

FACILITY

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

Byron Nuclear Power Station

IL0048313 002-0 PERMIT NUMBER DISCHARGE NUMBER

MM/DD/YYYY

07/31/2013

STORMWATER RUNOFF BASIN External Outfall

MONITORING PERIOD MM/DD/YYYY 07/01/2013 TO

··· NO DISCHARGE

CS

LOCATION 4450 North German Church Road

DADAMEYED		QUAI	NTITY OR LOADING	G	Q	UANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	######################################	40****	*****	*****	15 30DA AVG	30 DAILY MX	mg/L		Weekly	GRAB *
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	*****	*****	******					500	
00530 8 0 Other Treatment, Process Complete	PERMIT REQUIREMENT	900000 900000	******	*******	20000	30 30DA AVG	100 DAILY MX	mg/L		Weekly	GRĀB
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01032 1 0 Effluent Gross	PERMIT- REQUIREMENT	******	******	aŭnoso .	******	.011 30DA AVG	016 DAILY MX	wo/r		Qaily	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	100000	*****	*****					500	
01034 1 0 Effluent Gross	PERMIT REQUIREMENT	esses	******	page and	pogsas	30DA AVG	DAILY MX	mg/L.		Daily	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	*****	******	******					500	
01042 1 0 Effluent Gross	PERMIT REQUIREMENT		APRIMED OF	*****	******	.025 30DA AVG.	041 DAILY MX	mg/L	20	Daily	GRAB
Iron, total (as Fe)	SAMPLE MEASUREMENT	*****	*****	*****	******	*****				500	
01045 1 0 Effluent Gross	REQUIREMENT	22 2024	Access		******	400000	DAILY MX	mg/L		Daily	GRAB
Lead, total (as Pb)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01051 1 0 Effluent Gross	PERMIT REQUIREMENT	deston	ganang	*****	*****	.063 30DA AVG	.298 DAILY MX	mg/L	1. 2.	- Daily	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision in	n accordance with a s	vstern designed to assu	re that qualified	personnel	O \ -	. []	ELEPHONE		DATE	<u> </u>
Benjamin P. Youman	properly gather and evaluation manage the system, information submitted is,	, or those persons dire	ectly responsible for gatt	hering the inform	ation, the	Snow P L		5 406-3700		08/26/2013	i
Plant Manager	aware that there are sign line and imprisionment to	ilficant penalties for su	ibmitting false information	on, including the		EXECUTIVE OFFIC	ER OR AR	EA NUMBER		MM/DD/YYY	
TYPED OR PRINTED COMMENTS AND EXPLANAT	<u> </u>					AUTHORIZED AC	ENT CO	DE	1	inny 20/TTT	•

ENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

1. No Turbine Building Fire and Oil Sump or Generic Non-Chemical Metal Cleaning Wastewater was discharged this month.

FROM

- 2. No Fire Protection or Service Water System Drain Water was discharged this month.
- 3. No Closed Cooling System Drain Water was discharged this month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS · 4300 Winfield Road

Warrenville, II 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byran, IL 61010

IL0048313	
PERMIT NUMBER	

002-0	_
DISCHARGE NUMBER	

MONITORING PERIOD								
	MM/DD/YYYY		MM/DD/YYYY					
FROM	07/01/2013	то	07/31/2013	·				

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01)

STORMWATER RUNOFF BASIN

CS

External Outfall

*** NO DISCHARGE X

ATTN: Zoe Cox/ENV SPEC		QUANTITY OR LOADING			_	QUANTITY OR CONCENTRATION					NO.	FREQUENCY	SAMPLE	
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE		VALUE		UNITS	EX	OF ANALYSIS	TYPE	
lickel, total as Ni)	SAMPLE MEASUREMENT	*****	*****	*****	******							500		
)1067 1 0 Effluent Gross	PERMIT'	******	*******	Appendix	*****		,011 30DA AVG	. 176 DAILY N		mg/L		Daily	GRAB	
linc, total as Zn)	SAMPLE MEASUREMENT	*****	*****	*****		•						500		
11092 1 0 Effluent Gross	PERMIT REQUIREMENT	900000 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	090000	gareen System	Assum		.047 .30DA AVG	.26 DAILY A		mg/L		Daily	GRAB	
Dil and Grease	SAMPLE MEASUREMENT	*****	*****	*****	*****							500		
03582 1 0 Effluent Gross	PERMIT	499999	Coopes.	\$00000 \$4000	******	·	15 30DA AVG	20 DAILY N	4X.	mg/L		When Discharging	GRAB	
Flow, in conduit or thru reatment plant	SAMPLE MEASUREMENT				*****		*****	*****		*****		500		
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Man. 30DA AVG	Req. Mon. DAILY MX	MgaVd	444400		***************************************	equan		******	X	When Discharging	ESTIMA	
	SAMPLE MEASUREMENT													
	PERMIT REQUIREMENT													
•	SAMPLE MEASUREMENT													
	PERMIT REQUIREMENT									1	ا م		9-	
	SAMPLE MEASUREMENT													
	PERMIT REQUIREMENT		***								1		•	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of I direction or supervision in	accordance with a sy	ystem designed to assur	re that qualified	personnel		0 ` 0	,	TE	LEPHONE		DATE		
Benjamin P. Youman	properly gather and evalu who manage the system,	arrage the system, or those persons directly responsible for gainering the information, the						406-3700	08/26/2013					
		i is, to the best of my knowledge and belief, true, accurate, and complete. I a significant penalties for submitting false information, including the possibility of nt for knowing violations.				EXECUTIVE OFFICER OR		ER OR	AREA NUMBER			MM/DD/YYYY		
OMMENTS AND EXPLANAT	<u> </u>		all attachmarts b	مجمع			AUTHORIZED AG	ENI	CODE	1	L			
. This discharge point was not . There was no discharge of p	used this month.	-			onth.									
PA Form 3320-1 (Rev 01/06) I	Provious aditions man	v bo wood	·									1/6/2012	PAGI	

ATTACHMENT TO COOLING SYSTEM BLOWDOWN (Outfall 001-0) DISCHARGE MONITORING REPORT

For Exelon Byron Station Permit IL0048313 July 2013 Page 1 of 2

MONITORING DATA:

	CWBD	OWDD EL-	Rock River			
DATE	Temperature	CWBD Flow	Flow			
	deg F	mgd	cfs			
07/01/2013	83.1	18.27	24,600			
07/02/2013	83.1	25.50	22,500			
07/03/2013	82.4	21.44	20,700			
07/04/2013	86.9	21.57	19,300			
07/05/2013	86.9	20.88	18,000			
07/06/2013	88.1	32.58	16,900			
07/07/2013	90.2	19.23	15,800			
07/08/2013	91.4	16.71	15,100			
07/09/2013	92.0	25.87	14,300			
07/10/2013	89.7	17.99	13,300			
07/11/2013	89.7	23.51	12,100			
07/12/2013	83.0	25.17	11,000			
07/13/2013	84.5	31.08	10,200			
07/14/2013	89.8	19.37	9,570			
07/15/2013	92.2	18.13	9,080			
07/16/2013	93.2	22.68	8,660			
07/17/2013	93.6	20.35	8,190			
07/18/2013	94.2	19.58	7,860			
07/19/2013	94.2	20.38	7,440			
07/20/2013	92.2	27.77	6,990			
07/21/2013	88.7	21.79	6,770			
07/22/2013	88.7	18.63	6,750			
07/23/2013	86.9	26.72	6,730			
07/24/2013	84.8	19.11	6,500			
07/25/2013	84.7	24.83	6,390			
07/26/2013	85.6	21.20	6,430			
07/27/2013	84.2	27.37	6,690			
07/28/2013	77.6	16.76	6,450			
07/29/2013	79.6	25.69	6,200			
07/30/2013	80.5	24.63	6,040			
07/31/2013	83.1	21.99	5,970			

ATTACHMENT TO **COOLING SYSTEM BLOWDOWN (Outfall 001-0)** DISCHARGE MONITORING REPORT

For Exelon Byron Station Permit IL0048313 July 2013 Page 2 of 2

HYDRAZINE MONITORING:

There were no steam generator chemical cleaning solutions (or associated rinses) containing hydrazine discharged to the Cooling System Blowdown during the month of July 2013.

TOTAL QUANTITY DISCHARGED: N/A

TOTAL DURATION OF DISCHARGE: N/A

COMMENTS:

- 1. Sodium Hypochlorite and Bromine compounds were used this month.
- 2. There was no discharge of steam generator chemical cleaning wastewater containing hydrazine in this month.
- 3. Flow existed through this outfall 31 of 31 days.
- 4. Per Special Condition 24 the influent from the Rock River and effluent from Outfall 001-0 was monitored for Total Suspended Solids (TSS) this month. The Rock River TSS value was 32.0 mg/L on 07/08/2013. The CWBD TSS value was 42.0 mg/L on 07/08/2013.
- 5. Rock River flow for July 2013 was >2400 cfs therefore daily temperature calculations were not required this month. (Special Condition 12).
- 6. There was no discharge of the 126 Priority Pollutants from cooling tower maintenance chemicals in July 2013. (Special Condition 15).

Byron Environmental Audit – Request for Additional Information Response

Question #: HH-1 Category: Human Health

Statement of Question:

Provide NPDES monthly discharge monitoring reports for the past five years.

Response:

The NPDES monthly discharge monitoring reports for all months of years 2008 through 2012 and January through July 2013 are provided.

List Attachments Provided:

- 1. NPDES monthly discharge monitoring reports for January 1, 2013 through July 31, 2013.
- 2. NPDES monthly discharge monitoring reports for January 1, 2012 through December 31, 2012
- 3. NPDES monthly discharge monitoring reports for January 1, 2011 through December 31, 2011
- 4. NPDES monthly discharge monitoring reports for January 1, 2010 through December 31, 2010
- 5. NPDES monthly discharge monitoring reports for January 1, 2009 through December 31, 2009
- 6. NPDES monthly discharge monitoring reports for January 1, 2008 through December 31, 2008



Exelon Generation Company, LLC Byron Station 4450 North German Church Road Byron, IL 61010-9794 www.exeloncorp.com

Nuclear

February 24, 2012

LTR: BYRON 2012-0023

File: 2.09.0411 1.10.0101

Illinois Environmental Protection Agency Water Pollution Control Compliance Assurance Section #19 1021 North Grand Avenue East P.O. Box 19276 Springfield, IL 62794-9276

Subject: Byron Station Monthly Discharge Monitoring Report

In accordance with National Pollutant Discharge Elimination System (NPDES) Permit Number IL0048313, issued January 24, 2011, we are submitting the Discharge Monitoring Report for Byron Station, Units 1 and 2. This report covers the period of January 1, 2012 through January 31, 2012.

If there are any questions regarding this report, please contact Ms. Zoe Cox, Environmental/Radwaste Supervisor, at (815) 406-3035.

Respectfully,

Timothy J. Tulon Sille Vice President

Byron Nuclear Generating Station

TJT/ZC/ca

Attachments

		N				MINATION SYSTI EPORT (DMR)	EM (NPDES)	DMR Mallis	ng ZIP C	:00E:	6101	
	ORESS eneration Co., LLC field Road	F		48313 NUMBER		A01-0 DISCHARGE NUI	ABER .	MAJOR (SUBR 01)				
	lle, IL 60655	L						DEMINERA	LIZER	REGENERATE W	ASTE (001A)	
				MC	ONITORING PERI			External O				
	clear Power Station			1/2012	MM/DD/YYYY TO 01/31/2012						· []	
Byron, IL ATTN: Zoe Cox/ENV S		FROM										
PARAMETER		QUAN	TITY OR LOADS	8		MANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE	
PARAMETER		AVERAGE	MAXIMUM	UNITS	MUNICIPALISM	AVERAGE	MAXIMUM		EX	ANALYSIS	TYPE	
Solids, Total Suspende	SAMPLE MEASUREMENT				-	1.1	1.4	19	0	285	EC	
00530 1 0 Effluent Gross	PENNT			-		15 30DA AVG	DIRECT MEX	mg/L		Monthly	COMP-8	
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT		and the							500		
01032 1 0 Effluent Gross	PERMIT	-				SUDA AVO	DAILY NEK	mg/L		Daily	GRAS	
Chromium, total (as Cr)	SAMPLE MEASUREMENT						7.0			500		
01034 1 0 Effluent Gross	PERMIT PRECEDURARISMET					36DA AVG	DAILY NO.	Regal.		Daily	GRAS	
Copper, total (as Cu)	SAMPLE MEASUREMENT									500		
01042 1 0 Effluent Gross	PERMIT PREGREGATION			-		SEDA AVG	DALYNE	mg/L		Daily	GRAS	
Iron, total (as Fe)	SAMPLE MEASUREMENT		4							500		
01045 1 0 Effluent Gross	PERMIT	-		-		100	DALYNE	Agm		Daily	GRAM	
Lead, Total (as Pb)	SAMPLE MEASUREMENT									500		
01051 1 0 Effluent Gross	PERMIT RECONSCIONT	-				38DA AVG	BALYNX	med		Daily	GRAS	
Nickel, total (as Ni)	SAMPLE MEASUREMENT		(500		
01067 1 0	PERENT	-	-		-	2000 000	Des Very	mgl		Daily	GFVAS	

NAME/TITLE
PRINCIPAL EXECUTIVE OFFICER
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

TELEPHONE DATE

SIGNATURE OF PRINCIPLE
EDECUTIVE OFFICER OR AREA NUMBER MIM/DD/YYYY

AUTHORIZED AGENT CODE

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- 1. There was no discharge of processed steam generator chemical cleaning wastewater during this month.
- 2. Flow existed 31 of 31 days during this month.

EPA Form 3320-1 ((Rev 01/06)	Previous	editions may	be used.

GL

2/28/2011

PERMITTEE NAME	NAME/ADDRE					SONITORING F	EPORT (DMR)		DMR Melli MAJOR	ng ZIP (CODE:	6101			
ADDRESS	4300 Winfield	ation Co., LLC			M8313 NUMBER		A01-0		(SUBR 01)						
	Warrenville, II			FERM	PERMIT NUMBER DISCHARGE NUMBER										
					, is	DHITORING PERI	60	-	DEMINERALIZER REGENERATE WASTE (001 A						
FACILITY		Power Station		least t	YYYYY	MM/DD/YYYY			Externe Villes						
LOCATION		erman Church Road	FROM	01/0	1/2012	то	01/31/2012		••	· NO DI	SCHARGE] • • •			
ATTN: Zoe (Byron, IL 610 Cox/ENV SPEC										· · · · · · · · · · · · · · · · · · ·				
	RAMETER		QUAN	ITITY OR LOADS	ia l		MANTITY OR CON	CENTRATION	No.	FREQUENCY	SAMPLE				
			AVERAGE	MAXIMUM	UNITS	MENERGYNE	AVERAGE	MAXIMEURA	LIMITS	EX	OF ANALYSIS	TYPE			
Zinc, Total (as Zn)		SAMPLE MEASUREMENT			-						500				
01092 1 0 Effluent Gros	53	PERMIT	-				SODA ANG	DAR.YMX	mod.	11/1	Dany	GRAS			
Flow, in cond treatment ple		SAMPLE MEASUREMENT	0.087	0.194	3	(2000)				0	136	CN			
50050 1 0 Effluent Gros	35	PERMIT	Peq. Mon. SEDA AVE	Ping. Mon. DAILY NO.	Mgalld				1		Dow	CONFTIN			
		SAMPLE MEASUREMENT						18.1 19.1							
		PERMIT			100										
		SAMPLE MEASUREMENT						19			10 to 10 to				
		PERMIT													
		SAMPLE MEASUREMENT													
		PERMIT													
		SAMPLE MEASUREMENT						No.							
		PERMIT													
		SAMPLE MEASUREMENT					9								
		PERMIT							20.0						

Timothy J. Tulon

Timothy J. Tulon

Site Vice President

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SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT 815 408-3600 02/24/2012

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

GL

AREA NUMBER

2/29/2011

MIMODAYYYY

PERMITTEE NAME/ADDRESS

DMR Melling ZIP CODE:

GL

2/28/2011

PAGE 1

0665 ower Station nan Church Road	FROM		OMMY	ONITORING PERIC			STP PLAN External O		JENT (FORMER 0	01B)
nen Church Roed	FROM		OMMY	Juli Caracia Perior			External O	uttell		
nen Church Roed	FROM		01/01/2012		MMODAYYY					
			1/2012	10	01/31/2012		••	• NO P4	SCHARGE	
										1
	QUAN	TITY OR LOADIN	10	0	UANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPL
	AVERAGE	MAXIMUM	UNITS		AYERAGE	MAXIMUM	UNITS	EX	AMALYSIS	TYPE
SAMPLE MEASUREMENT	<0.10	<0.13	28		≈4.0	c4.0	19	0	290	DC
PERMIT	5.3 SUDA AVG	DAILY NO.	81/0	100	38 300A AVS	DAILY NO	mgs_		Twice Per Month	COMP
SAMPLE MEASUREMENT				7.34		7.95	12	0	290	GA
PERMIT RESENTABLES				billion no		MATERINA	SU		Twice Per Month	GRAB
SAMPLE MEASUREMENT	<0.019	0.02	28		<0.9	1.4	19	0	290	DC
PERMIT	5.3 300A AVG	DAS Y NOT	Ro/di		30 300A ANS	60 040 Y 50Y	angs.		Turino Per Mounts	COMP
SAMPLE MEASUREMENT	0.006	0.012	3					0	136	CN
PERMIT	Petro Mors. 300A AVG	Part Mon. DAILY MK	Mantes	444			1		Daily	CONT
SAMPLE MEASUREMENT			-							
PERMIT					The second	NEW YORK THE				
				A Comment						41 E.J
MEASUREMENT				San and San San San San San San San San San San		*				_
PERMIT		1943					10000	32.00		TYRETZE.
SAMPLE							1000			
PERMIT										
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properly gather and evalu-	idle the information sub	bmilled. Based on my	inquiry of the pe	men or	1 1100		406-3600		02/24/2012	
arm concern that there are a	donilloant nanatiae (or	deducations foliage inform	rus, accurate, an mation, including	the possibility /	AND AND AND AND AND AND AND AND AND AND					
or and and submodesters	for knowing violations.			1 //	Elizabeth (1997) (1997) (1997) (1997) (1997) (1997) (1997)		THE RESIDENCE OF		MINIODAYYY	7
	MEASUREMENT PERMIT RECARRENCET RECARRENCET RECARRENCET RESEMBLEST RESEMBLEST RECARRENCET R	MEASUREMENT PERMIT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT PERMIT RESIDENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT PERMIT RESIDENT SAMPLE MEASUREMENT SECRETION SAMPLE MEASUREMENT PERMIT RESIDENT SAMPLE MEASUREMENT SECRETION SAMPLE MEASUREMENT SAMPLE MEASUREMENT SECRETION SAMPLE MEASUREMENT SAMPLE SAMPLE MEASUREMENT SAMPLE SAMPLE MEASUREMEN	MEASUREMENT PERMIT SUDA ANG DARLY NOX RAMPLE MEASUREMENT SAMPLE MEASUREMENT RETAINMENT SAMPLE MEASUREMENT SUDA ANG DARLY NOX RETAINMENT SAMPLE MEASUREMENT SUDA ANG DARLY NOX RETAINMENT SUDA ANG DARLY NOX RETAINMENT PERMIT RECANDENT PERMIT RECANDENT RECANDENT PERMIT RECANDENT RECONDENT RECO	MEASUREMENT PERMIT SUDA ANG DARLY NCK BINT RECOMMENSET SUDA ANG DARLY NCK BINT RECOMMENSET SUDA ANG DARLY NCK BINT RECOMMENT PERMIT SAMPLE MEASUREMENT SUDA ANG DARLY NCK BANT RECOMMENT PERMIT P	MEASUREMENT PERMIT SUDA ANG DAILY MX BITS SAMPLE MEASUREMENT SAMPLE MEASUREMENT SODA ANG DAILY MX MEASUREMENT SAMPLE MEASUREMENT SODA ANG DAILY MX MEASUREMENT SODA ANG DAILY MX MEASUREMENT SODA ANG DAILY MX MEASUREMENT MEA	MEASUREMENT PRESENT SUDA AVG DALLY MX BAMPLE MEASUREMENT	MEASUREMENT FERRIT SUDA ANG DALLY MX BAMPLE MEASUREMENT FRESCHIEDEST RECONSTRUCT RECONSTRUCT SUDA ANG DALLY MX DALLY MX THE MEASUREMENT	MEASUREMENT FORMAT SODA ANG DALY MS DALY MS DALY MS REGULARMENTER SODA ANG DALY MS REGULARMENT T.34 T.35 12 PERMENT REGULARMENT REGULARMENT REGULARMENT SOLA ANG DALY MS REGULARMENT REGULARMENT SOLA ANG DALY MS REGULARMENT REGULARMENT SOLA ANG DALY MS REGULARMENT RE	MEASUREMENT 5.3 TO.5 DALY MS BUY	MEASUREMENT 5.3 TILS by STORY AND DALY MIX BY THE STORY AND DALY MIX B

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PERMITTEE	NAME/ADDRES	18					and the second		MAJOR	ng ZIP (XUDE:	610
NAME	Exelon General	ton Co., LLC	ſ	11.00	48313		C01-0		(SUBR 01)			
ADDRESS	4300 Winfield F	loed.		PERMIT	NUMBER		DISCHARGE NU	MBER	(sost or)			
	Warrenville, IL	80666	r						WWTP (FORMER 001C)			
FACILITY	Byron Nuclear I	Power Station	ŀ		DOTTY	MITORNIG PERI	DD MM/DD/YYY		External O	utfell		
LOCATION		man Church Road	FROM		1/2012		01/31/2012			• ••	BCHARGE	
ATTN: Zoe	Byron, IL. 61010 Cow/ENV SPEC		a osassa							- NO D		• • •
PARAMETER			QUAN	QUANTITY OR LOADING			QUANTITY OR CON	CENTRATION		NO. FREQUENCY	BAMPLE	
			AVERAGE	MAXIMUM	UNITS		AVERAGE	MAXIMUM	UNITS	EX	OF AMALYSIS	TYPE
Solids, total	suspended	SAMPLE MEASUREMENT		*****			3.3	4.5	19	0	290	DC
00530 1 0 Effluent Gros		Panel					15	30				
Chromium, h	exavalent	SAMPLE					300A AVG	DARLANK	most		Totice Per Month	COMP24
(85 Cr) 01032 1 0		MEASUREMENT									500	
Effluent Gros		RESIDENCE					SEDA AVG	DAILY NO.	mgsL		Daily	GRAB
Chromium, to (as Cr)	otal .	SAMPLE MEASUREMENT			I I				1		500	
01034 1 0 Effluent Gros		PERMIT	Maria E				1	2	most		Daily	1708.2
Copper, total		SAMPLE					SELA AGE	DALYNE	mgc		Daily	GRAD
(as Cu) 01042 1 0		MEASUREMENT				•					500	
Effluent Gros		PERMIT			-		.5 390A AVG	DARYMO	mgA		Daily	GRAB
iron, total (as Fe)		SAMPLE MEASUREMENT			[]						500	
01045 1 0 Effluent Gros		PERMIT						1	eno-4		Day	GRAB
Lead, total		SAMPLE				DE LESSEMBA		DALYMOX				348
(as Pb) 01051 1 0		MEASUREMENT			elective and		2	4			500	
Effluent Gros Nickel, total	•	PERMISSION				100	SWA ACCE	DALYME	med.		Daily	GRAB
(as Ni)		SAMPLE MEASUREMENT		-			**				500	
01067 1 0 Effluent Gros		Permit		-	1			2	MOA		Datity	CRUB
MA	ME/TITLE MECUTIVE OFFICER		tw that this document i	and all attachments w	ere prepared and		7 A-	DAILY MX	ELEPHONE		DATE	
Time®	ly J. Tulon	business and drafts	ale the information sub	mitted. Based on my	inquiry of the pen	on or	// /dl	1 811				
Site Vic	e President	au sware and their are in	is, to the best of my to ignificant peneties for	romindge and ballet, to submitting being inter			EXECUTIVE OF PRI	HCIPLE			02/24/2012	
TYPED	OR PRINTED	of the and imprisonment	for knowing violations.			/	PROPOSITE OFFICE	ER OR ARE	NUMBER		REMODOWYYY	7

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

1. There was no discharge of processed steam generator chemical cleaning wastewater during this month.

2. Flow existed through this outfall 11 of 31 days during the month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used. GL 2/20/2011

AUTHORIZED AGENT

MINIODAYYYY

PERMITTEE NAME ADDRESS FACILITY LOCATION	4300 Winfield Warrenville, II Byron Nuclea	ation Co., LLC Road . 60655 r Power Station arman Church Road	FROM	ELO PERMI	SCHARGE I M8313 FNUMBER	BER DISCHARGE NUMBER WWTP (FORMER 001C MONITORING PERIOD External Outfulf Y MM/DD/YYYY					001C)	,	
ATTN: Zoe	CON/ENV SPEC		CHAN	TITY OR LOADS	·· ?		QUANTITY OR CON	CENTRATION		г	FREQUENCY	r	
PARAMETER		\times	AVERAGE	MAXIMUM	UNITS	AMPANALUM		MAXIMUM	UNITS	HO. EX	~	SAMPLE TYPE	
Zinc, total (as Zn)		SAMPLE MEASUREMENT			Ī						500		
01092 1 0 Effluent Gro	88	PERMIT REQUISITED TO					SMDA AMB	DALYMX	mgs		Deily	GRAS	
Flow, in con treatment pla	ent	SAMPLE MEASUREMENT	0.017	0.037	3					0	135	CN	
50050 1 0 Effluent Gro		PERMIT RESENTATIONS	Req. Mon. 200A AM3	Plant, Mitors. DARLY MEET	Months			100			Charley	CONTRA	
		SAMPLE MEASUREMENT											
<u> </u>		PERMIT RECOMMENDAT											
		SAMPLE MEASUREMENT											
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1		SAMPLE MEASUREMENT											
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		SAMPLE MEASUREMENT											
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-		0.00000		The second secon	The second secon	The second secon	The second secon	The state of the s	THE OWNER OF THE OWNER, NAMED IN	Name of Street or other	The same of the sa	CONTRACTOR DESIGNATION	

It certify under peneity of taw that this document and all attechments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted is, to the best of my innovindage and ballet, two, accounts, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. MAME/TITLE PRINCIPAL EXECUTIVE OFFICER Timothy J. Tulon Site Vice President TYPED OR PRINTED

SIGNATURE OF PRINCIPLE SCECUTIVE OFFICER OR **AUTHORIZED AGENT**

815 408-3800 02/24/2012 AREA NUMBER MIMODOTYYY CODE

DATE

2/20/2011

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

MEASUREMENT

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

GL

TELEPHONE

DMR Melling ZIP CODE:

NAME Exelon Generation ADDRESS 4300 Winfield Re	on Co., LLC	8		48313 NUMBER		D01-0 DISCHARGE NUI	MBER	(SUBR 01)					
Warrenville, IL 6	0666									TMENT (FORMER	0010)		
FACILITY Byron Nuclear P				omm	OKTORNO PER	BIBADDAYYY	External O						
LOCATION 4460 North Gerr		FROM		1/2012	то	01/31/2012		••	· NO DI	BCHARGE	•••		
Byron, IL 61010													
ATTN: Zoe Cox/ENV SPEC		· · · · · · · · · · · · · · · · · · ·											
		QUAN	TITY OR LOADS	ig .	QUANTITY OR CONCENTRATION				NO.	FREQUENCY	SAMPLE		
PARAMETER		AVERAGE	MAJOMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	OF ANALYSIS	TYPE		
Solids, total suspended	SAMPLE MEASUREMENT	T 1		-		<0.3	<0.5	19	0	290	CP		
00530 1 0 Effluent Gross	PERMIT			1		15 30DA AVS	DAILYMO	mgs.	10.00	Twice Per Month	COMPOS		
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.022	0.023	3					0	136	СН		
50050 1 0 Effluent Gross	PERMIT PERMINENT	Ping Mon. 30BA AVB	Resp. Mon. BASLY MIX	signits						Daily	CONTIN		
	SAMPLE MEASUREMENT												
NUMBER OF STREET	PERMIT												
each is of participation of the an ano-wall shading in the including of	SAMPLE MEASUREMENT												
	PERMIT		11年11年		14.20								
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	PERMIT	A Links					100						
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	PERMIT												
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	direction or supervision	of law that this document in accordance with a sy	stem designed to as	ours that qualified	personnel	21/1	1.	TELEPHONE		DATE			
Timothy J. Tulon	properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering to the information submitted is, to the best of my knowledge and belief, true, accurate, an			the information, —	seguja ristiz OF PR	NCIPLE	815 408-3800		02/24/2012	1			
Site Vice President	am aware that there an	e significent penelties fo ent for knowing violations		emetion, including	the possibility	EXECUTIVE OFFICE		NUMBER		MM/DD/YYY	N		
TYPED OR PREKTED						// AUTHORIZED A	GENT C	00E			 		
COMMENTS AND EXPLANA 1. Flow existed through this or				5 3 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5				e Later politicos materials			ar a		
EPA Form 3320-1 (Rev 01	/06) Previous edition	s may be used.	ATT AND A SECURITY OF THE PARTY		and and an antique of the second			N.		2/20/2011	PAGE		

	DISCHARGE MONITORING I
PERMITTEE NAME/ADDRESS	

NAME Existen Generation Co., LLC IL0048313 ADDRESS 4300 Winfield Road Warrenville, IL 60555

FACILITY

Byron Nuclear Power Station

LOCATION 4450 North German Church Road

Byron, IL 61010

E01-0 PERMIT NUMBER DISCHARGE NUMBER

MONITORING PERIOD MIMODYYYY MM/DD/YYYY FROM 01/01/2012 01/31/2012 το

DMR Mailing ZIP CODE: MAJOR (SUBR 01)

61010

STORMWATER (FORMER 001E) **External Outfall**

*** NO DISCHARGE X ***

PARAMETER		QUA	TITTY OR LOADIN	IQ.		DUANTITY OR CON	CENTRATION	1		NO.	FREQUENCY	SAMPLE
		AVERAGE	MAXIMUM	UNITS	Mention	AVERAGE	MAXIMU	и	UNITS	EX	OF ANALYSIS	TYPE
Solids, total suspended	SAMPLE MEASUREMENT		********	14-44							500	
00630 1 0 Effluent Gross	RECHINEMENT			44-1		350A AVG	DAILY M		mg/L		Weekly	GRAS
Solids, total suspended	SAMPLE MEASUREMENT			-		6.5	6.5		19	0	240	GA
00530 8 0 Other Treatment, Process Complete	PERMIT REGULATIONS					30 300A AVG	100 DAELY ME		mail		Weakly	GRAB
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT		7 3 	1000	(# H					500	
01032 1 0 Effluent Gross	PERMIT			-		300A AVS	DALYNS		mgd.		Daily	GRAB
Chromium, total (as Cr) 01034 1 0	SAMPLE MEASUREMENT	***************************************			4 						500	
Effluent Gross	PERMIT				E MARKET	30DA AVB	DALY NO	12	med	8.62	Dealy	GRAB
Copper, total (as Cu) D1042 1 0	SAMPLE MEASUREMENT			(<u>a</u>		- SMAN, ASS					500	
Effluent Gross	PERMIT			-		5 SVA AVG	DALYNO		regit		Daily	GRAS
ron, total (as Fe) 01045 1 0	SAMPLE MEASUREMENT	: 		:				+			500	
Effluent Gross	RECRIBIENT		1		-	100	DARLYSD		med.	1 1	Daily	GRAS
.ead, total as Pb) 01051 1 0	SAMPLE MEASUREMENT										500	
Effluent Gross	PERMIT	-		_		300A AMG	DAR.Y NO	10 3	Agm	(A)	Deily	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICE	. Immercial of priberatings is	accordance with a sv	stem designed to see	on that confiled as		211	/		PHONE		DATE	
Timothy J. Tuton Site Vice President	persons who manage the the information submitted	ate the information sui system, or those pers is, to the best of my ic	breited. Based on my one directly responsible nowledge and bullet to	inquiry of the per te for gathering th	e information.	IGNATURE OF PRE	MCEPLE	815 4	06-3600		02/24/2012	
TIPED OR HIBITED	am aware that there are a of fine and imprisonment	granciant peneities for for knowing violations	submitting false inform	he possibility	AUTHORIZED AGENT CODE NUMBER				MMDDAYAY			

- 1. There was no discharge of processed steam generator chemical cleaning wastewater during the month.
- 2. Flow existed through this outfall 0 of 31 days during the month.

3. There was no flow from this outfall this month however Fire Protection drain water was discharged to this outfall this month which requires TSS sampling. EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

2/20/2011

PERM	ATTEE	NAM	E/A	DOF	RESS

NAME Exelon Gr

Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555

FACILITY

Byron Nuclear Power Station

LOCATION 4460 North German Church Road

2. Fire Protection, Service Water or Closed Cooling System drain water was discharged this month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

3. There was no flow from this outfall this month however Fire Protection drain water was discharged to this outfall this month which requires TSS sampling.

Byron, IL 61010

124	IL0048313	
	PERMIT NUMBER	

E01-0 DISCHARGE NUMBER

800	HITORING PERI	oo
MODAYYYY		MM/DD/YYYY
1/01/2012	то	01/31/2012

DMR Melling ZIP CODE:

MAJOR

(SUBR 01)

GL

2/20/2011

PAGE 2

STORMWATER (FORMER 001E) External Outlail

*** NO DISCHARGE X

...

PARAMETER		QUAN	TITTY OR LOADIN	G		QUANTITY OR CON	CENTRATI	ON		NO.	FREQUENCY	SAMPLE
PARABEIER		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIB	IUM	UNITS	EX	OF ANALYSIS	TYPE
lickel, total as NI)	SAMPLE MEASUREMENT			-							500	
11067 1 0 Effluent Gross	PERMIT	-				200A AVS	DARY		mg/L		Contry	GRAS
Inc, total as Zn)	SAMPLE MEASUREMENT										500	
11092 1 0 Effluent Gross	PERMIT	-		-		SVA AVE	DALY		mgd.		Dealy	GRAS
flow, in conduit or thru reatment plant	SAMPLE MEASUREMENT		t 								500	
60050 1 0 Effluent Gross	PERMIT	Pisq. Mon. 200A-AVG	Plans Mon. DASLY SIR	Monte			Total Control				Twice Per Month	CONTIN
	SAMPLE MEASUREMENT											
	PERMIT							1				
	SAMPLE MEASUREMENT											
	PERMIT PERMITERAL											
	SAMPLE MEASUREMENT						Ţ.					
	PERMIT	推出。										
	SAMPLE MEASUREMENT											
	PERMIT											
MAME/TITLE PRINCIPAL EXECUTIVE OFFICE	. Idmacadu ou embeuvielou s.	n accordance with a s	ystem designed to ass	ure that qualified	personnel	21/11	1	TELEPHONE			DATE	
Timothy J. Tulon	persons who menage the the information submitted	gather and evaluate the information submitted. Based on my inquiry of the person or who manage the system, or those persons directly responsible for gathering the information, mation submitted is, to the best of my knowledge and belief, true, accurate, and complete. I					ENCEPLE	815	406-3600		02/24/2012	
Site Vice President	am aware that there are of the and imprisonment	significant penalties to I for knowing violation	the possibility	EXECUTIVE OFFI		AREA	NUMBER		MM/DD/YYY	Y		
COMMENTS AND EXPLANA			AUTHORIZED A	GENT	CODE		<u> </u>					

PERMITTEE NAME/ADDRESS

DMR Melling ZIP CODE:

NAME	Exelon Generat	ion Co., LLC		ILO	048313	— 1	001-0		(SUBR of	18		
ADDRESS	4300 Winfield R	load		PERMI	NUMBER	 -	DISCHARGE NUM	ABER .	(acen o	,		
	Warrenville, IL (0655-6701							COOLING	AVETE	M BLOWDOWN	
		2		8	MC	INITORING P	ERIOO	4	Externel		- 000000WN	
FACILITY	Byron Nuclear F				DOMMY		MINIODAYYYY	7				
LOCATION		man Church Road	FROM	01/6	01/2012		01/31/2012		•	NO D	SCHARGE	
ATTM: Zee	Byron, & 61010)							. .		•	
AT IN: 200	CON/ENV SPEC	N 7										
PARAMETER				TITY OR LOADING			QUANTITY OR CONCENTRATION		N	NO.	FREQUENCY	SAMPLE
Temperature	W	SAMPLE	VALUE	VALUE	UNITS	YALUE	ANTRE	VALUE	E UNITS	EX	ANALYSIS	TYPE
Fahrenheit	r, weist dog.	MEASUREMENT		**********			**********	76.5	15	0	136	CN
00011 1 0 Effluent Gro	-	False						Plets, Mc				
	30	RECEMBERSHT SAMPLE			+		1000000	MO MA	X dag F		Daily	CONTIN
pH		MEASUREMENT				8.82		8.78	12	0	240	GR
00400 1 0 Effluent Gro	•	PERMIT SINCERES INVESTOR				6			. 80	0.00	Weekly	
Solids, total		SAMPLE			1	MERCA		MAXIN		4		ORAS
00630 1 0		MEASUREMENT			1		16.5	16.5	19	0	285	GR
Effluent Gro	38	PRESIDENT PRESCRIBERATIONS				-	Resp. Mon. 2000A AVAG	Plant, Mo DANLY A			Monthly	GRAS
Oil & Grease	•	SAMPLE MEASUREMENT				*******	**************************************	<1.4	19	10		
00556 1 0		PERMIT					15	29		<u> "</u>	240	GR
Effluent Gros	THE RESIDENCE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.	перенения					20DA ANG	DALY	tx mgt.		Washly	GIVAB
Chromium, to	otal (as Cr)	SAMPLE MEASUREMENT			-			<0.002	1 19	To	240	GR
01034 1 0 Effluent Gros	-	PERMIT	E 2.4	-			Table of the state	0.2				
		BAMPLE			P. 1			DALYN	R Mod.		Wookly	GRAB
Copper, total	(es Cu)	MEASUREMENT		-						1	500	
01042 1 0 Effluent Gros		PERMIT	1		-			0.071	med.	B.F.E	Weekly	GRAS
Zinc, total (as	s Zn)	SAMPLE					A	DATAR		I i		GPWG
01092 1 0		MEASUREMENT				70	0.007	0.014	19	0	240	GR
Effluent Gros	18	PRESIDENCE			_		213 300A AVG	DARLY M	mo/L		Wantely	GRAB
	METTILE MICUTIVE OFFICER	certify under penalty of te	w that this document a	end all attachments :	were prepared und	a my	201	/	TELEPHONE	T	DATE	
		properly custoer and evalua	iin iine minemellee aube	militari Dasseri na m	u leavener of the com-		YI HIL	2_		<u> </u>	UNIE	
100000	hy J. Tulon	persons who manage the a the information submitted in	lystam, or those perso s, to the best of my lim	ns directly responsit owledge and bollet.	de for gathering the	information,	SPORATURE OF PRO	CEPLE	815 408-3800		02/24/2012	
	So L (Golffdill	am aware that there are significant to	fluorence behaviorale sex i	solari selet prillimous	metion, including 8	te possibility	EXECUTIVE OFFICE		AREA	+	and to seem to the	
	CR PRINTED						AUTHORIZED AG		CODE	1	MMADDAAAA	7
COMMENTS	AND EXPLANAT	TON OF ANY VIOLATE	OHS (Reference s	attachmente	here)	,			Act to the second	-		
1. Monitoring	data for outfall 00	01-0 is included on atta	chment,									
EPA Form 33	20-1 (Rev 01/08)	Previous editions may	be used			-						namen as an a
		The second likely							GL		2/20/2011	PAGE 1

PERMITTEE NAME/ADDRESS

DMR Melling ZIP CODE:

MAJOR

PAGE 2

NAME Exelon Generation ADDRESS 4300 Winfield Ro	oned			M8313 NUMBER		001-0 DISCHARGE NUI	ABEA .	(SUBR 01)				
Warrerville, IL 6	0000	r		₀	OMITORING PERM			External Or		BLOWDOWN		
FACILITY Byron Nuclear P	ower Station	T T	BESSE	DOWNY		MINIOOYYYY	,					
LOCATION 4450 North Gern Byron, IL 61010	nen Church Road	FROM		01/01/2012 TO 01/31/2012 *** NO DISCHARGE								
ATTN: Zoe Cox/ENV SPEC		CHAN	TITY OR LOADS	<u> </u>		MANTITY OR COM	CENTRATION		NO.	FREQUENCY	SAMPL	
PARAMETER	\rightarrow	AVERAGE	MAXIMUM	UNITS	MENTERUM	AVERAGE	MAXIMUM	UNITS	EX	OF	TYPE	
Oxidents, total residual	SAMPLE MEASUREMENT									600		
34044 1 0 Effluent Gross	PERENT					1	DAILY MIX	mg4.		Westly	GRAS	
Priority pollutants total effluent	CAMPI C									500		
50008 1 0 Effluent Gross	PERMIT	1	Pag. Mos. CALYSEK	Bodel			Perg Mon. DASLY MOX	mg/L		Weekly	GRAB	
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	18.43	23.83	3					0	135	CN	
50050 1 0 Effluent Gross	PERMIT	Plaq. Men. 300A AVG	Plant Mark DAILY MIX	Migridid		A Property of the Control of the Con				Daily	GONTH	
Chlorine, total residual	SAMPLE MEASUREMENT						0.04	19	0	240	GR	
50060 1 0 Effluent Gross	PERCHAPITATION OF THE PERCHAPITATION OF THE			-			DASLY NEX	mg/L		Westey	GRAS	
Hydrazine	BAMPLE MEASUREMENT			-						500		
81313 1 0 Effluent Gross	PERMIT					.011 38DA AVS	DALY MIX	mgt.		Daily When Discharging	GRAS	
	SAMPLE MEASUREMENT				112							
	PERMIT											
	SAMPLE MEASUREMENT											
	PERMIT REGIMENENT					T. St. Lawrence				1.		
PRINCIPAL EXECUTIVE OFFICER	certify under penalty of					201.	1	ELEPHONE		DATE		
Timothy J. Tulon	properly gather and evaluations who manage the	uate the information ou e system, or those per	comitted. Based on money directly response	ny inquiry of the pa tale for gathering t	erson or	IGHATIONE OF THE PRECUTIVE OFFICE	BICEPLE 81	5 406-3600		02/24/2012	2	
Site Vice President	the information submitted arm aware that there are of time and imprisonmen	significant penalties to	r automitting false info		the possibility	AUTHORIZED A				MMVDDYYY	N	
COMMENTS AND EXPLANAT				here)						d and the same of		
EPA Form 3320-1 (Rev 01/08)	Previous editions ma	ry be used.					त		2 2	2/29/2011	PAG	

PERMITTI		

NAME Exelon Generation Co., LLC ADDRESS 4300 Winfield Road

Warrenville, IL 60555

FACILITY Byron Nuclear Power Station **LOCATION** 4450 North German Church Road

Byron, IL 61010

IL0048313
PERMIT NUMBER

-	002-0
	DISCHARGE NUMBER

MONIT	ORING PERI	99
MM/DD/YYYY		MM/DD/YYYY
01/01/2012	TO	01/31/2012

DMR Melling ZIP CODE:

61010

MAJOR (SUBR 01)

STORMWATER RUNOFF BASIN **External Outfall**

*** NO DISCHARGE X ***

PARAMETER		QUAI	ITTY OR LOADIN	6		QUANTITY OR CON	CENTRATION	N	NO.	FREQUENCY	SAMPLE	
PARAMETER		AVERAGE	MAXIMUM	UNITS	Minimoral	AVERAGE	MAXIMUM	UNITS	EX	OF ANALYSIS	TYPE	
Solids, Total Suspended	SAMPLE MEASUREMENT	•••••										
00530 1 0 Effluent Gross	PERMIT			400		15 300A AVG	DAILY MIX	mgs.		Westly	GRAB	
Solids, Total Suspended	SAMPLE MEASUREMENT											
00530 8 0 Other Treatment, Process Complete	PERMIT PERMITEMENT					30 300A AV3	108 DAILY NOX	mgs		Washiy	GRAS	
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT				4							
01032 1 0 Effluent Gross	PERMIT			-		FTO. BVA AGOS	DAILY MX	mgtL		Daily	GRAB	
Chromium, total (as Cr)	SAMPLE MEASUREMENT											
01034 1 0 Effluent Gross	PERMIT			-		300A AVG	DARYMK	mgs.		Deily	GRAB	
Copper, total (as Cu)	SAMPLE MEASUREMENT	•	•••••									
01042 1 0 Effluent Gross	REGULARISM	-		-		.025 300A AVQ	DALYNE	mg4.		Dethy	GRAS	
ron, total (as Fe)	SAMPLE MEASUREMENT											
01045 1 0 Effluent Gross	PERMIT REQUIREMENT				-	-	DAILY NO.	mgA.		Duity	GRAB	
Leed, total (as Pb)	SAMPLE MEASUREMENT											
01061 1 0 Effluent Gross	PERMIT		100			DVA AGGS	DAILY NO	mg/L		Daily	GRAS	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICE	- Imacacu de archesasion e	n accordance with a r	ystem designed to ass	ure that qualified	personnel	21/1	/ 11	LEPHONE		DATE		
Timothy J. Tulon	persons who manage the	properly gather and evaluate the information autimitied. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the inform the information submitted is, to the best of my knowledge and ballef, thus, accurate, and coingle				signature of Pro	BICIPLE 815	408-3800		02/24/2012	2	
Site Vice President	am aware that there are of fine and imprisonmen	significant panalties f	or submitting false info	the possibility	SEECUTIVE OFFIC		NUMBER		MM/DD/YYY	N		
TYPED OR PRINTED	A 1940 GIRL SUPPLINGUES	and the second second				/ AUTHORIZED A	GENT COD	d	l			

- 1. No Turbine Building Fire and Oil Sump or Generic Non-Chemical Metal Cleaning Wastewater was discharged this month.
- 2. No Fire Protection, Service Water or Closed Cooling System Drain Water was discharged this month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

GL

2/28/2011

DEDA	ATTEE	24.04		EOC

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road Warrerwille, 8 60565

FACILITY Byron Nuclear Power Station

LOCATION 4450 North German Church Road Byron, IL 61010 IL0048313 PERMIT NUMBER

FROM

002-0 DISCHARGE NUMBER

MONITORING PERIOD

MIM/DD/YYYY

01/01/2012 TO 01/31/2012

OMR Mailing ZIP CODE: MAJOR 61010

(SUBR 01)

STORMWATER RUNOFF BASIN

Externel Outfall

··· NO DISCHARGE X

ATTN: Zoe Cow/ENV SPEC		QUAN	TITY OR LOADIN	0		QUANTITY OR CON	CENTRATIO	1	NO.	FREQUENCY	SAMPLE
PARAMETER		AVERAGE	MAXIMUM	UNITE	Appendical	AVERAGE	MAXIMIL	M UNITS	EX	OF ANALYSIS	TYPE
lickel, total as Ni)	SAMPLE MEASUREMENT			-							
01067 1 0 Effluent Gross	PERMIT					PPA. ACIDS	176 DAILY N	ex mgst.		Daily	GRAS
Zinc, total (as Zn)	SAMPLE MEASUREMENT										
01092 1 0 Effluent Gross	PERMIT		-		-	200A AMG	DALY S	ex most	100	Daily	GRAB
Oil and Grease	SAMPLE MEASUREMENT										
D3682 1 0 Effluent Gross	PERMIT	7-2-23				15 380A AVG	DAILY &	ex mest		Discharging	GPAS
Flow, in conduit or thru restment plant	SAMPLE MEASUREMENT				**************************************		-	-			
50050 1 0 Effluent Gross	PERMIT	Plag. Mon. 300A AVB	Plaq Man. OMELY MEL	telgolad						When Discharging	ESTEMA
	SAMPLE MEASUREMENT		P				100				
	PERMIT DESIGNATIONS										
	SAMPLE MEASUREMENT			1							
	PERMIT RESIDENCE										
	SAMPLE MEASUREMENT										
	PERMIT										
HAME/TITLE PRINCIPAL EXECUTIVE OFFICER	certify under penalty of direction or supervision in	n accordance with a s	yelem dealgned to acc	building that outflied	personnel	112	/	TELEPHONE		DATE	
Timothy J. Tulon	properly gather and evels persons who manage the the information automities	matern, or those per	nona directiv responsi	bis for antherina t	he information, I	SHEMATURE OF PR	INCIPLE	815 408-3600		02/24/2012	<u> </u>
Site Vice President	the information examitted is, to the best of my knowledge and ballst, true, accurate, an arm aware that there are significant penalties for examilting table information, including of the end imprisonment for knowlng violations.				the possibility	EXECUTIVE OFFI	ALCOHOL: THE STATE OF	AREA NUMBER		MM/DD/YYY	N
THREE OR FRENTED						AUTHORIZED A	GENT	CODE			
COMMENTS AND EXPLANAT 1. This discharge point was no 2. There was no discharge of p	t used this month.										

ATTACHMENT TO COOLING SYSTEM BLOWDOWN (Outfall 001-0) DISCHARGE MONITORING REPORT

For Exelon Byron Station Permit IL0048313 January 2012 Page 1 of 2

MONITORING DATA:

MONITORING			
DATE	CWBD Temperature deg F	CWBD Flow mgd	Rock River Flow cfs
01/01/2012	70.9	20.28	7,660
01/02/2012	68.6	15.24	7,540
01/03/2012	68.8	20.60	6,650
01/04/2012	69.4	17.71	6,730
01/05/2012	69.4	19.70	6,830
01/06/2012	75.5	19.98	6,650
01/07/2012	75.5	23.83	6,570
01/08/2012	72.0	19.69	6,460
01/09/2012	69.0	17.46	6,420
01/10/2012	73.4	17.56	6,280
01/11/2012	74.6	18.69	6,150
01/12/2012	74.6	19.77	6,120
01/13/2012	65.0	20.36	6,140
01/14/2012	65.0	22.71	5,830
01/15/2012	68.1	19.95	5,930
01/16/2012	72.2	12.10	5,970
01/17/2012	72.2	20.67	5,880
01/18/2012	66.5	16.30	6,280
01/19/2012	72.5	18.78	8,390
01/20/2012	65.0	15.92	7,390
01/21/2012	66.6	22.49	6,470
01/22/2012	69.7	17.40	7,870
01/23/2012	75.0	14.19	9,620
01/24/2012	67.7	16.86	9,730
01/25/2012	66.0	18.11	9,130
01/26/2012	68.7	16.46	8,700
01/27/2012	68.7	18.01	8,420
01/28/2012	70.2	21.31	7,440
01/29/2012	66.5	18.58	6,750
01/30/2012	63.3	12.67	6,090
01/31/2012	76.5	17.91	5,840

ATTACHMENT TO COOLING SYSTEM BLOWDOWN (Outfall 001-0) DISCHARGE MONITORING REPORT For Exelon Byron Station Permit IL0048313 January 2012 Page 2 of 2

HYDRAZINE MONITORING:

There were no steam generator chemical cleaning solutions (or associated rinses) containing hydrazine discharged to the Cooling System Blowdown during the month of January 2012.

TOTAL QUANTITY DISCHARGED: N/A

TOTAL DURATION OF DISCHARGE: N/A

COMMENTS:

- 1. Sodium Hypochlorite was used this month. Bromine compounds were not used this month.
- 2. There was no discharge of steam generator chemical cleaning wastewater containing hydrazine in this month.
- 3. Flow existed through this outfall 31 of 31 days.
- 4. Per Special Condition 24 the influent from the Rock River and effluent from Outfall 001-0 was monitored for Total Suspended Solids (TSS) this month. The Rock River TSS value was 11.5 mg/L on 01/02/2012. The CWBD TSS value was 16.5 mg/L on 01/02/2012.
- Rock River flow for January 2012 was >2400 cfs therefore daily temperature calculations were not required this month. (Special Condition 12).
- 6. There was no discharge of the 126 Priority Pollutants from cooling tower maintenance chemicals in January 2012. (Special Condition 15).



Exelon Generation Company, LLC Byron Station 4450 North German Church Road Byron, IL 61010-9794 www.exeloncorp.com

Nuclear

March 21, 2012

LTR: BYRON 2012-0031

File: 2.09.0411

1.10.0101

Illinois Environmental Protection Agency BOW CAS #19 1021 North Grand Avenue East P.O. Box 19276 Springfield, IL 62794-9276

Subject: By

Byron Station Monthly Discharge Monitoring Report

In accordance with National Pollutant Discharge Elimination System (NPDES) Permit Number IL0048313, issued January 24, 2011, we are submitting the Discharge Monitoring Report for Byron Station, Units 1 and 2. This report covers the period of February 1, 2012 through February 29, 2012.

If there are any questions regarding this report, please contact Ms. Zoe Cox, Environmental/Radwaste Supervisor, at (815) 406-3035.

Respectfully,

Benjamin P. Youman

Plant Manager

Byron Nuclear Generating Station

BPY/ZC/ca

Attachments

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) MICHARDE MONTORING BEROOF INMEN

p	FI	PI	V.	17	TFF	MAD	4F	/An	DP	ESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron,	۱L	61010

ISTORY SIDNANDELU	ioning reconitions
ILC048313	A01-0

PERMIT NUMBER		DISCHARGE NUMBER
MC	ONITORING	3 PERIOD
MM/DD/YYYY		MM/DD/YYYY

TO

02/29/2012

02/01/2012

FROM

DWR Meiling ZIP CODE:

61010

KOLAM

(SUBR 01)

DEMINERALIZER REGENERATE WASTE (001A)

CS

External Cutfall

""" NO DISCHARGE

DADAMSTED.		QUA	NTTTY OR LOADIN	G		QUANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	EX ANALYSIS	TYPE
Solids, Total Suspended	SAMPLE MEASUREMENT	•••••	*****	*****	*****	2.2	2.4	19	0	01/30	08
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	444444	*****	*****	15 30DA AVG	30 DAILY MOX	mg/L		Monthly	COMP-8
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	•••••					500	
01032 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	V11040	*****	.1 30DA AVG	.2 DAILY MX	rng/L		Daily	GRAB
Chromium, total (as Cr)	SAMPLE (MEASUREMENT)	•••••	******	40400	*****					500	
01034 1 0 Effluent Gross	PERMIT REQUIREMENT	*1****	******	*****	*****	30DA AVG	DAILY MX	mg/L		Daily	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	081908	00000#	99999	00000					500	
01042 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	444555	*****	*****	.5 300A AVG	DAILY MX	mg/L		Daily	GRAB
iron, total (as Fe)	SAMPLE MEASUREMENT	*****	******	*****	*****	******				500	
01045 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	20000	*****	DAILY MOK	mg/L		Daily	GRAB
Lead, Total (as Pb)	SAMPLE MEASUREMENT	*****	******	*****	•••••					500	
01051 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*******	*****	*****	30DA AVG	.4 DAILY MX	mg/L		Daily	GRAB
Nickel, total (as Ni)	SAMPLE MEASUREMENT	*****	*****		•••••					500	
01067 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	******	810000	******	30DA AVG	2 DAILY MX	mg/L		Daity	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICE	R I certify under penalty of direction or supervision in					0 10		ELEPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system, information submitted is,	or those persons din	ectly responsible for gat	thering the infor	nation, the	SIGNATURE OF PRI		5 406-3700		03/21/2012	
Plant Manager	aware that there are sign fine and imprisionment to	ificant penalties for si				EXECUTIVE OFFICE	ER OR AR	INUMBER		MM/DD/YYY	Y
COMMENTS AND EXPLANA	TON OF ANY VIOLAT	TONE (Patamon	ali ettechmente i	hore\							

2. Flow existed 27 of 29 days during this month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012 PAGE 1

DMR Meiling ZIP CODE:

1/6/2012

PAGE 2

61010

discharge monitoring report (DMR)

PERMITTEE	NAME/ADDRESS	5	_								ROLAM			
name	Exelon Generati	on Co., LLC		[L00	48313			A01-0			(SUBR 01)		CS	
ADDRESS	4300 Winfield R	oad		PERMIT	NUMBER		DISCHARGE NUMBER			7				
	Warrenville, IL 6	0555-5701	_							_	DEMINERA	LIZER 9	REGENERATE W	ASTE (CO1A)
				MONITORING I			PERIOD]	External Outfall			
FACILITY	Byron Nuclear P	ower Station	[MM/D	D/YYYY			MW/DD/YYY	Y	7				
LOCATION	4450 North Gerr	nan Church Road	FROM	02/0	1/2012	то		02/29/2012		1		NO DE	SCHARGE	•••
	Byron, IL 61010	•	_							_				
ATTN: Zoe	Cox/ENV SPEC													
			QUAN	TITY OR LOADIN	IG			NO SUANTITY OR CON	CENTRATI	ON		NO.	FREQUENCY	SAMPLE
PAF	RAMETER	\sim		VA: 115	1131770	1401115		1 441.05				EX	OF	TYPE
			VALUE	VALUE	UNITS	VALUE	<u> </u>	VALUE	VALL	<u></u>	UNITS		ANALYSIS	
Zinc, Total (as Zn)		SAMPLE	*****	*****	•••••	*****			1				500	
01092 1 0		MEASUREMENT PERMIT			 			1	2					
Effluent Gros	ss	REQUIREMENT	******	*****	*****	E84004		30DA AVG	DAILY	MX	mg/L		Daily	GRAB
Flow, in cont	duit or thru	SAMPLE	2 2 2 2	0.000	1 _ 1						*****		04/04	
treatment pla	ant	MEASUREMENT	0.088	0.280	3							0	01/01	CN
50050 1 0		PERMIT	Req. Mon.	Req. Mon.	Mgal/d	222444		*****	****	•	*****		Daily	CONTIN
Effluent Gros	ss	REQUIREMENT	30DA AVG	DAILY MX					ļ					0011111
		SAMPLE MEASUREMENT]						l					ļ
		PERMIT	<u> </u>		1			ļ	ļ					
		REQUIREMENT	1											
		SAMPLE			 	· · · · · · · · · · · · · · · · · · ·			 					
		MEASUREMENT												
		PERMIT												
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		SAMPLE			1 1				}		1			
		MEASUREMENT			 			ļ	├			<u> </u>		
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		MEASUREMENT	 		 			 -	 		ļ			
		PERMIT REQUIREMENT			1 1				İ					
NA:	ME/TITLE	I certify under penalty of						<u> </u>		Τ				·····
PRINCIPAL E	XECUTIVE OFFICER	direction or supervision is						- 21		TEI	EPHONE		DATE	
		properly gather and evalu	ite the information subn	nitted. Based on my	inquiry of the pers	son or persons	4	Smil you	~~	815	406-3700			
Benjam	in P. Youman	who manage the system, information submitted is,					S	IGNATURE OF PRI	NCIPLE	1			03/21/2012	
Plan	t Manager	aware that there are sign	ificant penalties for sub					IGNATURE OF PRI	ER OR	AREA			****	
	OR PRINTED	fine and imprisionment for	r knowing violations.					AUTHORIZED AC		CODE	NUMBER		MM/DD/YYY	Y
COMMENTS	AND EXPLANAT	TON OF ANY VIOLAT	TONS (Reference	all attachments	here)									
		- · · · · · · · · · · · · · · · · · · ·	- 4		•									

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

801-0

DISCHARGE NUMBER

DISCHARGE MONITORING REPORT (DMR)

DMR Meiling ZIP CODE:

61010

ROLAM (SUBR 01)

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC address 4300 Winfield Road

Warrenville, IL 60555-5701

MONITORING PERIOD MM/DD/YYYY MM/DD/YYYY 02/01/2012 02/29/2012 TO FRCM

[LC048313

PERMIT NUMBER

STP PLANT EFFLUENT (FORMER 001B) External Cutfail

CS

*** NO DISCHARGE

FACILITY Byron Nuclear Power Station LCCATION 4450 North German Church Road

Byron, IL 61010

PARAMETER		QUAN	ITITY OR LOADIN	G		QUANTITY OR CON	CENTRATIO	N	NO.	FREQUENCY	SAMPLE
- Autour Ch		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	ANALYSIS	TYPE
BOD, 5-Day (20 Deg. C)	SAMPLE MEASUREMENT	<0.22	<0.33	26	4****	<4.0	<4.0	19	0	02/30	24
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	5.3 30DA AVG	10.5 DAILY MX	1b/d	*****	30 30DA AVG	60 DAILY N	px mg/L.		Twice Per Month	COMP24
pH	SAMPLE MEASUREMENT	*****	*****	*****	7.28	40000	7.43	12	0	02/30	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	F2 5494		6 MINIMUM	******	MAXIMU	M SU		Twice Per Month	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	0.14	0.23	26	*****	2.1	2.7	19	0	02/30	24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	5.3 30DA AVG	10.5 DAILY MX	tb/d	*****	30 30DA AVG	BO DAILY M	X mg/t.		Twice Per Month	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.005	0.010	3	*****	*****	*****	000004	0	01/01	CN
5 0050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	Mgel/d	*****	****	*****	*****		Deity	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT			}							
	PERMIT REQUIREMENT										
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of I direction or supervision in					A . D		TELEPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation of the system.	ite the information sub or those persons dire	mitted. Based on my incitive responsible for gat	nquiry of the per hering the inform	son or persons	SIGNATURE OF PRI	NCIPLE	815 406-3700		03/21/2012	
Plant Manager	information submitted is, aware that there are sign fine and imprisionment to	ificant penalties for su			EXECUTIVE OFFICER OR		AREA NUMBER		MM/DD/YYYY		
COMMENTS AND EXPLANAT Flow existed through this ou			all attachments i	nere)	,,	AUTHORIZED AC	ENI	CODE	<u> </u>		
EPA Form 3320-1 (Rev 01/	06) Previous editions	may be used.								1/6/2012	PAGE

DISCHARGE WONITORING REPORT (DMR)

MONITORING PERIOD

то

DMR Melling ZIP CODE: ROLAM

61010

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

PERMIT NUMBER

(L0048313

MW/DD/YYYY

02/01/2012

FROM

C01-0 DISCHARGE NUMBER

> MM/DD/YYYY 02/29/2012

WWTP (FORMER 001C)

External Cutfail

(SUBR 01)

CS

* * * NO DISCHARGE

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

DADAMESED		QUANTITY OR LOADING				QUANTITY OR CONCENTRATION				NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALU	E	UNITS	EX	ANALYSIS	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	*****	•••••		*****	4.2	5.1		19	0	02/30	24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	214402	44444	*****	134000	15 30DA AVG	30 DAILY	4X	mg/L		Twice Per Month	COMP24
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	******	*****		9,000						500	
01032 1 0 Effluent Gross	PERMIT REQUIREMENT	299.00	*****	422000	210207	30DA AVG	.2 DAILY	acx	mg/L		Daily	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	*****		*****						500	
01034 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	******	*****	*****	30DA AVG	2 DAILY N	ex	mg/L		Daily	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****		*****	*****						500	
01042 1 0 Efficent Gross	PERMIT REQUIREMENT	*****	******	104000	250400	30DA AVG	DAILY I		mg/L		Daily	GRAB
ron, total (as Fe)	SAMPLE MEASUREMENT	*****	*****	40***		*****					500	
01045 1 0 Effluent Gross	PERMIT REQUIREMENT	410040	40002	*****	*****	******	DALY N	AX.	mg/L		Daily	GRAB
Lead, total (as Pb)	SAMPLE MEASUREMENT	*****	*****	*****	*****						500	
01051 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	******	******	*****	2 300A AVG	.4 DAILY N	ax	mg/L		Daily	GRAB
Nickel, total (as Ni)	SAMPLE MEASUREMENT	*****	*****	*****	*****						500	
01067 1 0 Effluent Gross	PERMIT REQUIREMENT	010000	405052	*****	*****	3QDA AVG	DALY A	ax .	mg/L		Daily	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision in					0.2.		TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system.	ite the information su or those persons din	bmitted. Based on my is actly responsible for gat	nquiry of the per hering the inform	son or persons nation, the	SIGNATURE OF PRI		815	406-3700		03/21/2012	
Plant Manager	aware that there are sign	rbm:tted is, to the best of my knowledge and belief, true, accurate, and complete. I am ere are significant penalties for submitting false information, including the possibility of				EXECUTIVE DEFICED OF			NUMBER		****/700000	
TYPED OR PRINTED	fine and imprisionment to	r knowing violations.				AUTHORIZED AC	ENT	CODE	NUMBER		MM/DD/YYY	·
COMMENTS AND EXPLANATI There was no discharge of p Flow existed through this out	processed steam gene	erator chemical cl		•	onth.							
EPA Form 3320-1 (Rev 01/0	06) Previous editions	may be used									1/6/2012	PAGE

EPA Form 3320-1 (Nev 01/06) Previous editions may be used.

1/6/2012

DISCHARGE MONITORING REPORT (DMR)

C01 0

DISCHARGE NUMBER

DWR Mailing Zip CODE:

ROLAM

(SUBR 01)

61010

PERMITTEE NAME/ADDRESS

FACILITY

MARSE Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

Byron Nuclear Power Station

LOCATION 4450 North German Church Road

MONITORING PERIOD RIMIDDIAAAA MM/DD/YYYY 02/29/2012 FROM 02/01/2012 TO

[LC048313

PERMIT NUMBER

WWTP (FORMER 001C)

External Outfall

*** NO DISCHARGE

CS

Byron, IL 61010 ATTN: Zoe Cox/ENV SPEC FREQUENCY QUANTITY OR LOADING **QUANTITY OR CONCENTRATION** NO. SAMPLE PARAMETER OF ĘΧ TYPE **VALUE** UNITS VALUE VALUE VALUE UNITS VALUE **ANALYSIS** Zinc, total SAMPLE ***** ---------------500 (as Zn) MEASUREMENT 01092 1 0 PERMIT ***** Daily mg/L GRAB DAILY MX Effluent Gross REQUIREMENT 30DA AVG Flow, in conduit or thru SAMPLE 0.023 0.034 3 0 01/01 CN treatment plant MEASUREMENT 50050 1 0 Reg. Mon. 30DA Req. Mon. PERMIT Mgal/d ***** ***** **** Daily CONTIN DAILY MX Effluent Gross REQUIREMENT AVG SAMPLE MEASUREMENT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT NAME/TITLE certify under penalty of law that this document and all attachments were prepared under my TELEPHONE DATE PRINCIPAL EXECUTIVE OFFICER direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evalute the information submitted. Based on my inquiry of the person or persons 815 406-3700 Benjamin P. Youman who manage the system, or those persons directly responsible for gathering the information, the 03/21/2012 SIGNATURE OF PRINCIPLE information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am Plant Manager aware that there are significant penalties for submitting false information, including the possibility of **EXECUTIVE OFFICER OR** AREA NUMBER fine and imprisionment for knowing violations. MM/DD/YYYY TYPED OR PRINTED **AUTHORIZED AGENT** CODE COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

1301-0

02/29/2012

Discharge Monitoring Report (DMR)

PERMITTEE N	AWE/ADDRESS
-------------	-------------

NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

PERMIT NUMBER	DISCHARGE NUMBER
MONI	TORING PERIOD
MMODWAAA	MM/DDWYYY

TO

IL0048313

02/01/2012

FROM

DMR Welling ZIP CODE:

61010

ROLAM

(SUBR 01) CS

RADWASTE TREATMENT (FORMER 0010)

External Cutfall

*** NO DISCHARGE

Byron, IL 61010 ATTN: Zoe Cox/ENV SPEC FREQUENCY QUANTITY OR LOADING **QUANTITY OR CONCENTRATION** SAMPLE NO. PARAMETER EX TYPE VALUE VALUE UNITS VALUE VALUE **VALUE** UNITS **ANALYSIS** SAMPLE ***** Solids, total suspended <0.5 02/30 <0.5 19 0 CP MEASUREMENT 00530 1 0 PERMIT 15 30 Twice Per Month COMPOS mg/L 30DA AVG DAILY MX Effluent Gross REQUIREMENT Flow, in conduit or thru SAMPLE 0.023 3 ***** 0 0.023 01/01 CN treatment plant MEASUREMENT 50050 1 0 Reg. Mon. PERMIT Reg. Mon. 30DA ***** ***** Moel/d Daily CONTIN Effluent Gross REQUIREMENT AVG DAILY MX SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT NAME/TITLE certify under penalty of law that this document and all attachments were prepared under my TELEPHONE DATE PRINCIPAL EXECUTIVE OFFICER direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evalute the information submitted. Based on my inquiry of the person or persons 815 406-3700 Benjamin P. Youman who manage the system, or those persons directly responsible for gathering the information, the 03/21/2012 information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of EXECUTIVE OFFICER OR Plant Manager AREA NUMBER MM/DD/YYYY fine and imprisionment for knowing violations. TYPED OR PRINTED **AUTHORIZED AGENT** CODE COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) 1. Flow existed through this outfall 8 of 29 days during the month. EPA Form 3320-1 (Rev 01/06) Previous editions may be used. 1/6/2012 PAGE 1

DISCHARGE MONITORING REPORT (DMR)

DE	77	EE	MAR	VE/	'ΔN	ESS	

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

[L0048313 PERMIT NUMBER

	E01-0	
DISC	HARGE NUN	MBER

[MON	ITORING PERI	OD GO	
	MM/DD/YYYY		MM/DD/YYYY	
FROM	02/01/2012	то	02/29/2012	

DMR Melling ZIP CODE:

ROLAN

(SUBR 01) CS

STORMWATER (FORMER 001E)

External Outfall

*** NO DISCHARGE X ***

61010

PARAMETER		QUA	NTITY OR LOADIN	G		QUANTITY OR CON	CENTRATION			NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	T	UNITS	EX	ANALYSIS	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****						500	
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	•====	*****	15 30DA AVG	30 D/ MX	VLY	mg/L		Weekly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	•••••	5.5	6.0		19	0	01/07	GR
00530 8 0 Other Treatment, Process Complete	PERMIT REQUIREMENT	******	*****	*****	42000	30 30DA AVG	100 DAILY MX		mg/L		Weskly	GRAB
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	*****	22709	020200	220020						500	
01032 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	511000	*****	******	30DA AVG	DAILY MX		mg/L		Daily	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	00000						500	
01034 1 0 Effluent Gross_	PERMIT REQUIREMENT	*****	*****	*****	*****	1 30DA AVG	2 DAILY MX		mg/L		Daily	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	*****	•••••	*****						500	
01042 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	471404	******	******	.5 300A AVG	1 DAILY MX		mg/L		Daily	GRAB
iron, total (as Fe)	SAMPLE MEASUREMENT	*****	*****		*****						500	
01045 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*5440	DAILY MOX		mg/L		Daily	GRAB
Lead, total (as Pb)	SAMPLE MEASUREMENT	*****	*****	•••••	*****						500	
01051 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	112200	*****	40000	2 30DA AVG	DAILY NO		mg/L		Daily	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision in	accordance with a s	ystem designed to assu	re that qualified	personnel			TELEP	HONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system, information submitted is,	or those persons din	ectly responsible for gat	nering the inform	nation, the	SIGNATURE OF FRI	NCIPLE	315 40	06-3700		03/21/2012	:
Plant Manager	aware that there are sign fine and imprisionment to	ificant penalties for s				EXECUTIVE OFFIC	ER OR	REA NI	UMBER		MM/DD/YYY	γ

NATION OF ANY VIOLATIONS (Reference all attachments here)

- 1. There was no discharge of processed steam generator chemical cleaning wastewater during the month.
- 2. Flow existed through this outfall 0 of 29 days during the month.
- 3. There was no flow from this outfall this month however Fire Protection drain water was discharged to this outfall this month which requires TSS sampling.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC ADDRESS

4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY LOCATION

Byron Nuclear Power Station 4450 North German Church Road

Byron, IL 61010

IL0048313 PERMIT NUMBER

FROM

E01-0 DISCHARGE NUMBER

MONITORING PERIOD MW/DD/AAAA MM/DD/YYYY 02/29/2012 02/01/2012 TO

DMR Weiling ZIP CODE:

61010

ROLAM

(SUBR 01) CS

STORMWATER (FORMER 001E)

External Outfall

""NO DISCHARGE X

PARAMETER		QUA	NTTY OR LOADING	G		QUANTITY OR CO	NCENTRATI	ON		NO.	FREQUENCY	SAMPLE
PARAGRETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALU	JE	UNITS	EX	ANALYSIS	TYPE
Nickel, total (as Ni)	SAMPLE MEASUREMENT	*****	*****		*****		T				500	
01067 1 0 Effluent Gross	PERMIT REQUIREMENT	****	******	*****	*****	30DA AVG	DARLY	MEX	mg/L		Daily	GRAB
Zinc, total (as Zn)	SAMPLE MEASUREMENT	*****	*****		*****						500	
01092 1 0 Effluent Gross	PERMIT REQUIREMENT	######	4.474.	*****	******	30DA AVG	DAILY	MX	mg/L		Daily	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT				*****	*****	,	•	*****		500	
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. 30DA AVE	Req. Mon. DAILY MX	MgaVd	*****	*****	*****	•	20000		Twice Per Month	CONTIN
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision in						,	TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system, information submitted is,	or those persons dire	ectly responsible for gat	hering the inform	nation, the	SIGNATURE OF P	MINCIPLE	815	406-3700		03/21/2012	
Plant Manager	aware that there are sign	ificant penalties for su				EXECUTIVE OFF	ICER OR	AREA	NUMBER		MM/DD/YYY	
COMMENTS AND EXPLANA	TION OF ANY VIOLAT	TONS (Reference	all attachments h	nere)		AU INUNIZED I	NGEN I	CODE		L		

MENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- 1. No Turbine Building Fire and Oil Sump or Generic Non-Chemical Metal Cleaning wastewater was discharged this month.
- 2. Fire Protection, Service Water or Closed Cooling System drain water was discharged this month.
- 3. There was no flow from this outfall this month however Fire Protection drain water was discharged to this outfall this month which requires TSS sampling.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

MONITORING PERIOD

ŤΟ

discharge Monitoring Report (DMR)

IL0048313 PERMIT NUMBER

MW/DD/YYYY

02/01/2012

FROM

001-0 DISCHARGE NUMBER

MM/DD/YYYY

02/29/2012

DMR Melling ZIP CODE:

CS

61010

MAJOR (SUBR 01)

CCOLING SYSTEM BLOWDOWN
External Outfall

* NO DISCHARGE	٦.	٠
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1/6/2012

PAGE 1

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

Exelon Generation Co., LLC

Warrenville, IL 60555-5701

Byron, IL 61010

PERMITTEE NAME/ADDRESS

ADDRESS 4300 Winfield Road

MAME

PARAMETER		QUAN	ITTTY OR LOADING	3 		QUANTITY OR CON	CENTRATIO	N		NO.	FREQUENCY OF	SAMPLE
TATOMICIEN		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	Ē	UNITS	EX	ANALYSIS	TYPE
emperature, water deg. Fahrenheit	SAMPLE MEASUREMENT	*****	*****	••••	*****	*****	75.5		15	0	01/01	CN
20011 1 0 Effluent Gross	PERMIT REQUIREMENT	2244##	*****	*****	*****	******	Req. Mo MO MA		deg F		Daily	CONTIN
эн	SAMPLE MEASUREMENT	*****	*****		8.67	•••••	8.71		12	0	01/07	GR
10400 1 0 Effluent Gross	PERMIT REQUIREMENT	****	414600	*****	6 MINIMUM	******	9 MAXIM	Ж	SU		Weekly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	000000	*****	4.6	4.6		19	0	01/30	GR
20530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	59484-	******	***177	Req. Mon. 30DA AVG	Req. Mc		mg/L		Monthly	GRAB
Dil & Grease	SAMPLE MEASUREMENT	630960	*****	*****	*****	<1.4	<1.4	-	19	0	01/07	GR
10553 1 0 Effluent Gross	PERMIT REQUIREMENT	******	*****	*****	******	15 30DA AVG	20 DAILY A	OX	mg/L		Weekly	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	******	*****	045944	82465		<0.002	1	19	0	01/07	GR
01034 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	0.2 DAILY N	ex .	mg/L		Wesldy	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	*****	*****	*****	•					500	
)1042 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	******	*****	*****	******	0.071 DAILY &		mg/L		Weekly	GRAB
Zinc, total (as Zn)	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.004	0.008		19	0	01/07	GR
)1 092 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	*****	*****	.213 300A AVG	.433 DAILY &	ex	mg/L		Weekly	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER) certify under penalty of I direction or supervision in							TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system,	te the information sul or those persons dire	omitted. Based on my in actly responsible for gati	nquiry of the per nering the inform	son or persons	SIGNATURE OF PAIL	VCIPI F	815	406-3700		03/21/2012	
Plant Manager	information submitted is, i aware that there are signi fine and imprisionment to	ficant penalties for su				EXECUTIVE OFFICE	ER OR	AREA	INUMBERI		MM/DD/YYY	Υ
COMMENTS AND EXPLANATION Monitoring data for outfall 00		•	all attachments h	ere)		Illaning No		JOUE				

MATICALAL POLLLITANT DISCHARGE ELIMINATION SYSTEM (MPDES)

PERMITTEE	NAWE/ADDRESS		'				eport (DMR)	CIVI (IVIFDES)	DWR Meilin MAJOR	ig ZIP C	ODE:	61010
NAME	Exelon Generation	n Co., LLC		1L00	48313		001-0		(SUBR 01)		cs	
ADDRESS	4300 Winfield Ro			PERMIT	NUMBER		DISCHARGE NU	MBER	(,			
	Warrenville, IL 60	555-5701		·					COOLING	SYSTEM	BLOWDOWN	
					M	ONITORING PERI	OD		External O	utfell		
FACILITY	Byron Nuclear Po	wer Station		MM/D	D/YYYY		MM/DD/YYY	ν				
LOCATION	4450 North Germ	an Church Road	FROM	02/0	1/2012	TO	02/29/2012	: -	• •	· NO DE	SCHARGE] •••
	Byron, IL 61010							 				•
ATTN: Zoe	Cox/ENV SPEC											
			QUAI	NTITY OR LOADIN	G		DUANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
PAF	RAMETER	\nearrow	VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX.	OF ANALYSIS	TYPE
Oxidants, tot	al residual	SAMPLE MEASUREMENT	*****	*****	40000	*****	,,,,,,				500	
34044 1 0 Effluent Gros	ss	PERMIT REQUIREMENT	****	*****	*****	A delegan	\$445.50	.05 DAILY MOX	mg/L		Weekly	GRAB
Priority pollu	tants total effluent	SAMPLE MEASUREMENT	*****			*****	*****		<u> </u>	_	500	
50008 1 0 Effluent Gros	ss	PERMIT REQUIREMENT	*****	Req. Mon. DAILY MX	fb/d	991994	*****	Req. Mon. DAILY MX	mg/L		Weekly	GRAB
Flow, in cont treatment pla		SAMPLE MEASUREMENT	18.15	26.31	3	*****		*****	*****	0	01/01	CN
50050 1 0 Effluent Gros	ss	PERMIT REQUIREMENT	Req. Mon. 300A AVG	Req. Mon. DALLY MX	Mgal/d	*****	******	19944	*****		Daily	CONTIN
Chlorine, tota	al residual	SAMPLE MEASUREMENT	001000	*****	*****	000000	*****	0.03	19	0	01/07	GR
50060 1 0 Effluent Gros	ss	PERMIT REQUIREMENT	12000	******	*****	*10000	******	.05 DANLY MOX	mg/L		Weekly	GRAB
Hydrazine		SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
81313 1 0 Effluent Gros	ss	PERMIT REQUIREMENT	*****	*****	*****	*****	.011 300A AVG	.027 DAILY MX	mg/L		Daily When Discharging	GRAB
		SAMPLE MEASUREMENT										
		PERMIT REQUIREMENT										
		SAMPLE MEASUREMENT										
}		PERMIT			1							

Benjamin P. Youman who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am Plant Manager aware that there are significant penalties for submitting false information, including the possibility of TYPED OR PRINTED fine and imprisionment for knowing violations.

PRINCIPAL EXECUTIVE OFFICER direction or supervision in accordance with a system designed to assure that qualified personnel

certify under penalty of law that this document and all attachments were prepared under my

properly gather and evalute the information submitted. Based on my inquiry of the person or persons

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR **AUTHORIZED AGENT**

TELEPHONE DATE 815 406-3700 03/21/2012 CODE NUMBER MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

NAME/TITLE

1/6/2012

Discharge Moxitoring Report (DMR)

TO

ITTEE	ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LCCATION 4450 North German Church Road

Byron, IL 61010

IL0048313 PERMIT NUMBER

MM/DD/YYYY

02/01/2012

FROM

002-0 DISCHARGE NUMBER

02/29/2012

MONITORING PERIOD

MWDDYYYY

DMR Meiling ZIP CODE:

61010

ROLAED

(SUBR 01)

STORMWATER RUNOFF BASIN

CS

External Outfall

... NO DISCHARGE X

		QUA	NTITY OR LOADIN	G		QUANTITY OR CON	CENTRATIO	N		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALU	=	UNITS	EX	ANALYSIS	TYPE
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	•••••	*****	•••••							
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	15 300A AVG	30 DAILY A	AX.	mg/L		Weekly	GFIAB
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	******	•••••	*****							
00530 8 0 Other Treatment, Process Complete	PERMIT REQUIREMENT	nestre		*****		30 300A AVG	100 DAILY &	ox.	mg/L.		Weekly	GRAS
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	*0***	0++4**	*****	040***							
01032 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	211100	*****	45454	.011 360A AVG	.016 DAILY A	ex_	mg/L		Deily	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	90000							
01034 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	******	30DA AVG	DAILY I	ADK	mg/L		Daily	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	014444	*****	*****	*****							
01042 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	411100	•	******	.025 30DA AVG	.041 DAILY A	OX.	mg/L		Daily	GRAB
Iron, total (as Fe)	SAMPLE MEASUREMENT	*****	•••••	*****	*****	*****						
01045 1 0 Effluent Gross	PERMIT REQUIREMENT	P97555	*****	*****		202200	DAILY A	ex	mg/L		Daily	GRAB
Lead, total (as Pb)	SAMPLE MEASUREMENT	*****	******	*****	*****							
01051 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	.063 .00A AVG	.298 Daily a	 (X	mg/L		Daily	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of li direction or supervision in	accordance with a s	ystem designed to assu	re that qualified	personnel			TEI	EPHONE		DATE	
Benjamin P. Youman	properly gather and evalu- who manage the system, information submitted is, t	or those persons dir	ectiy responsible for gat	hering the inform	nation, the	SIGNATURE OF PRI		815	406-3700	_	03/21/2012	1
Plant Manager	aware that there are signi fine and imprisionment for	ficant penalties for s				EXECUTIVE OFFIC		AREA	NUMBER		MM/DD/YYY	Υ

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- 1. No Turbine Building Fire and Oil Sump or Generic Non-Chemical Metal Cleaning Wastewater was discharged this month.
- 2. No Fire Protection, Service Water or Closed Cooling System Drain Water was discharged this month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

Discharge Monitoring Report (DMR)

PERMITTEE NAME/ADDRESS

NAME Exelor Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, Il 60555-5701

FACILITY Byron Nuclear Power Station

LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313 PERMIT NUMBER

FROM

002-0 DISCHARGE NUMBER

MONITORING PERIOD

MM/DD/YYYY

02/01/2012

TO

02/29/2012

DMR Mailing ZIP CODE:

61010

MAJOR (SUBR 01)

CS

STORMWATER RUNOFF BASIN

External Outfall

... NO DISCHARGE X ...

PARAMETER		QUAI	TITY OR LOADIN	G		QUANTITY OR CON	CENTRATIO	N		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALU	E	UNITS	EX	ANALYSIS	TYPE
Nickel, total (as Ni)	SAMPLE MEASUREMENT	*****	******	*****	*****							
D1067 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	******	*****	.011 30DA AVG	.176 DAILY		mg/L		Daily	GRAS
Zinc, total (as Zn)	SAMPLE MEASUREMENT	*****	*****	*****								
01092 1 0 Elfluent Gross	PERMIT REQUIREMENT	270000	******	129444	*****	.047 30DA AVG	.26 DAILY		mg/L		Daily	GRAB
Oil and Grease	SAMPLE MEASUREMENT	412700	*****	*****	*****							
D3582 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	400000	*****	*****	15 30DA AVG	20 DAILY	MOX	mg/L		When Discharging	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT				*****	*****	*****	•	.g0000			
50050 1 0 Efficent Gross	PERMIT REQUIREMENT	Req. Mon. 30DA AVG	Pieq. Mon. DAILY MX	Mgal/d	511144	200009	****		*****		When Discharging	ESTIMA
	SAMPLE MEASUREMENT		_									
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
NAME/TITLE PRINCIPAL EXECUTIVE OFFICE	I certify under penalty of i							TEL	EPHONE		DATE	<u> </u>
Benjamin P. Youman	properly gather and evaluation manage the system, information submitted is,	te the information sul or those persons dire	omitted. Based on my ectly responsible for ga	inquiry of the per thering the infor	rson or persons nation, the	SIGNATURE OF PR		815	406-3700		03/21/2012	!
Plant Manager	aware that there are sign	ificant penalties for su				EXECUTIVE OFFICE	ER OR	AREA	AU IMAGES		444/000000	
TYPED OR PRINTED	fine and imprisionment to	r knowing violations.				AUTHORIZED A	SENT	CODE	NUMBER		MM/DD/YYY	T

- 1. This discharge point was not used this month.
- 2. There was no discharge of processed steam generator chemical cleaning wastewater during the month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

ATTACHMENT TO COOLING SYSTEM BLOWDOWN (Outfall 001-0) DISCHARGE MONITORING REPORT

For Exelon Byron Station Permit IL0048313 February 2012 Page 1 of 2

MONITORING DATA:

MONITORING			
DATE	CWBD Temperature deg F	CWBD Flow mgd	Rock River Flow cfs
02/01/2012	75.5	16.09	6,400
02/02/2012	67.3	17.45	6,970
02/03/2012	67.5	16.69	7,010
02/04/2012	69.6	26.31	6,950
02/05/2012	69.5	11.88	6,870
02/06/2012	67.7	19.48	6,800
02/07/2012	68.6	18.60	6,580
02/08/2012	64.5	14.24	6,460
02/09/2012	68.8	18.72	6,380
02/10/2012	68.8	20.01	6,240
02/11/2012	66.6	21.36	5,950
02/12/2012	73.0	11.51	6,260
02/13/2012	73.0	20.80	6,600
02/14/2012	66.7	17.60	6,450
02/15/2012	71.1	18.10	5,980
02/16/2012	71.1	17.07	5,900
02/17/2012	70.6	17.79	5,890
02/18/2012	70.5	22.73	5,770
02/19/2012	67.4	18.42	5,660
02/20/2012	67.4	15.50	5,540
02/21/2012	71.1	19.60	5,550
02/22/2012	72.5	15.94	5,510
02/23/2012	72.5	18.45	5,420
02/24/2012	68.8	18.86	5,650
02/25/2012	68.8	22.70	5,640
02/26/2012	71.8	18.55	5,510
02/27/2012	71.8	13.84	5,570
02/28/2012	67.0	19.60	5,570
02/29/2012	75.5	18.36	6,250

ATTACHMENT TO COOLING SYSTEM BLOWDOWN (Outfall 001-0) DISCHARGE MONITORING REPORT

For Exelon Byron Station Permit IL0048313 February 2012 Page 2 of 2

HYDRAZINE MONITORING:

There were no steam generator chemical cleaning solutions (or associated rinses) containing hydrazine discharged to the Cooling System Blowdown during the month of February 2012.

TOTAL QUANTITY DISCHARGED: N/A

TOTAL DURATION OF DISCHARGE: N/A

COMMENTS:

- 1. Sodium Hypochlorite was used this month. Bromine compounds were not used this month.
- 2. There was no discharge of steam generator chemical cleaning wastewater containing hydrazine in this month.
- 3. Flow existed through this outfall 29 of 29 days.
- 4. Per Special Condition 24 the influent from the Rock River and effluent from Outfall 001-0 was monitored for Total Suspended Solids (TSS) this month. The Rock River TSS value was 3.5 mg/L on 02/06/2012. The CWBD TSS value was 4.6 mg/L on 02/06/2012.
- 5. Rock River flow for February 2012 was >2400 cfs therefore daily temperature calculations were not required this month. (Special Condition 12).
- 6. There was no discharge of the 126 Priority Pollutants from cooling tower maintenance chemicals in February 2012. (Special Condition 15).



Exelon Generation Company, LLC Byron Station 4450 North German Church Road Byron, IL 61010-9794 www.exeloncorp.com

Nuclear

April 19, 2012

LTR: BYRON 2012-0045

File: (2.09.0411) 1.10.0101

Illinois Environmental Protection Agency BOW CAS #19 1021 North Grand Avenue East P.O. Box 19276 Springfield, IL 62794-9276

Subject: Byron Station Monthly Discharge Monitoring Report

In accordance with National Pollutant Discharge Elimination System (NPDES) Permit Number IL0048313, issued January 24, 2011, we are submitting the Discharge Monitoring Report for Byron Station, Units 1 and 2. This report covers the period of March 1, 2012 through March 31, 2012.

Pursuant to Byron Station's NPDES permit, the Station monitors the Total Suspended Solids (TSS) result for Outfall C01 (Wastewater Treatment Plant Effluent) twice per month.

On March 10, 2012, the TSS composite sample result for Outfall C01 was 37.9 mg/L and the duplicate result showed 39.6 mg/L. Reanalysis of the remainder of the March 10, 2012 sample showed 34.3 mg/L and 33.7 mg/L for the duplicate. Once the original analysis results indicated greater than 30 mg/L TSS, the Wastewater Treatment Plant (TR) was shutdown.

On March 13, 2012, the TSS composite sample result for Outfall C01 was 3.0 mg/L and the duplicate result was 2.5 mg/L.

The elevated TSS of March 10, 2012, did not endanger health or the environment. Byron Station has been reviewing potential causes of the elevated TSS at Outfall C01. The TR system uses two 30,000 gallon Collection Tanks to collect influent wastewater until enough water is collected to initiate the treatment process. In addition to the collection tanks, four settling ponds also collect influent wastewater for eventual TR processing. On March 10, 2012 the influent wastewater being processed at TR consisted primarily of TR settling pond water.

The TR settling pond water often presents a challenge to the TR treatment system specific to the removal of suspended solids. When processing TR settling pond water, additional operator attention is required to assure that the system performs as designed.

Several actions are being taken to prevent this event from occurring in the future. These include: implementation of operating procedure changes and creation of a new chemistry department procedure to perform a filter test of TR effluent approximately every 8 hours

April 19, 2012 Byr Ltr 2012-0045 Page 2

whenever TR is processing water. This event and all actions associated with the event are captured in Byron Station's Corrective Action Program under Issue Report 1339223.

It appears lack of recognition of poor water quality being processed by the Wastewater Treatment (TR) plant is the main cause of the elevated TSS value.

If there are any questions regarding this report, please contact Ms. Zoe Cox, Environmental/Radwaste Supervisor, at (815) 406-3035.

Respectfully,

Benjamin P. Youman

Plant Manager

Byron Nuclear Generating Station

BPY/ZC/eh

Attachments

bcc: J. Gould - Environmental - Cantera

Z. Cox - Chemistry - Byron

PERMITTEE NAME/ADDRESS DISCHARGE MONITORING R

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byron, IL 61010 ATTN: Zoe Cox/ENV SPEC

IL0048313	A01-0
PERMIT NUMBER	DISCHARGE NUMBER

	MOI	IITORING PERIOD	
	MM/DD/YYYY	MM/DD	YYYY
ROM	03/01/2012	TO 03/31/	2012
KOM	03/01/2012	10 03/31/	2012

DMR	Mail	ing	ZIP	CO	DE:
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MAJOR

(SUBR 01) CS

DEMINERALIZER REGENERATE WASTE (001A) External Outfall

61010

*** NO DISCHARGE ...

PARAMETER		QUA	ITITY OR LOADING	G		QUANTITY OR CONCENTRATION				FREQUENCY	SAMPLE
PANAMEICH		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	ANALYSIS	TYPE
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	*****	•••••	*****	1.8	1.9	19	0	01/30	08
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	\$000FX	*****	******	15 30DA AVG	30 DAILY M	IX mg/L		Monthly	COMP-
Chromium, hexavalent as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01032 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	******	200000	******	30DA AVG	2 DAILY N	IX mg/L		Daily	GRAB
Chromium, total as Cr)	SAMPLE MEASUREMENT	*****	*****	•••••	40000					500	
01034 1 0 Effluent Gross	PERMIT REQUIREMENT	.00000	******	*****	*****	1 30DA AVG	2 DAILY M	tX mg/L	1	Daily	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01042 1 0 Effluent Gross	PERMIT REQUIREMENT	******	-	*****	811100	.5 30DA AVG	1 DAILY M	ıx mg/L		Daily	GRAB
ron, total as Fe)	SAMPLE MEASUREMENT	*****	*****	******	*****	444044				500	
01045 1 0 Effluent Gross	PERMIT REQUIREMENT	100000	******	**************************************	223444	417474	DAILY M	tX mg/L		Daily	GRAB
_ead, Total as Pb)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01051 1 0 Effluent Gross	PERMIT REQUIREMENT	194444	- thosas	*****	******	2 30DA AVG	.4 DAILY M	IX mg/L		Daily	GRAB
lickel, total as Ni)	SAMPLE MEASUREMENT	*****	150404	*****	*****]			500	
01067 1 0 Effluent Gross	PERMIT REQUIREMENT	224000	*******		21244	1 30DA AVG	DAILY M	IX mg/L		Daily	GRAB
	I certify under penalty of la direction or supervision in	accordance with a s	ystem designed to assu	re that qualified	personnel	O =		TELEPHONE		DATE	
Benjamin P. Youman	properly gather and evalu- who manage the system, information submitted is	or those persons dire	ectly responsible for gati	hering the inform	nation, the	SIGNATURE OF PAI	NCIPLE	815 406-3700		04/19/2012	
Plant Manager	aware that there are signifine and imprisionment for	licant penalties for su				EXECUTIVE OFFIC	ER OR	AREA NUMBER		MM/DD/YYY	Y
Plant Manager	fine and imprisionment load ION OF ANY VIOLAT processed steam general	icant penalties for su knowing violations.	omitting (alse information	on, including the	possibility of		ER OR	AREA NUMBER		MM/DD/YYY	Y
PA Form 3320-1 (Rev 01/06) I	Previous editions may	be used.								1/6/2012	PAC

PERM	TTEE	NAME	cce

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station

LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	A01-0
PERMIT NUMBER	DISCHARGE NUMBER

	MO	NITORING PERIC	OD	Τ
	MM/DD/YYYY		MM/DD/YYYY	
FROM	03/01/2012	то	03/31/2012	_

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01)

DEMINERALIZER REGENERATE WASTE (001A)

External Outfall

*** NO DISCHARGE ...

PARAMETER		QUAI	NTITY OR LOADING	3		Q	UANTITY OR CON	CENTRATIO	ON		NO.	FREQUENCY	SAMPLE
		VALUE	VALUE	UNITS	VALUE		VALUE	VALU	JE	UNITS	EX	ANALYSIS	TYPE
Zinc, Total as Zn)	SAMPLE MEASUREMENT	*****	*****	*****	*****							500	
01092 1 0 Effluent Gross	PERMIT REQUIREMENT	994466	*****	*****	*****		1 30DA AVG	2 DAILY		mg/L		Daily	GRAB
flow, in conduit or thru reatment plant	SAMPLE MEASUREMENT	0.044	0.103	3	*****		*****	****	•	*****	0	01/01	CN
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Reg. Mon. 30DA AVG	Req. Mon. DAILY MX	Mgal/d	******		******	******	14	*****		Daily	CONTIN
	SAMPLE MEASUREMENT		·	1									
	PERMIT REQUIREMENT												
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT						•						
	SAMPLE MEASUREMENT									, ,			
	PERMIT REQUIREMENT												
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT				•								1.1
NAME/TITLE PRINCIPAL EXECUTIVE OFFIC	I certify under penalty of I direction or supervision in						0 .3		TEL	EPHONE		DATE	-
Benjamin P. Youman	properly gather and evalu who manage the system, information submitted is,	or those persons din	ectly responsible for gath	nering the inform	nation, the	SI	Ban P. Jan GNATURE OF PRI	NCIPLE	815	406-3700		04/19/2012	
Plant Manager	aware that there are signifine and imprisionment to	ficant penalties for su					EXECUTIVE OFFIC	ER OR	AREA	NUMBER		MM/DD/YYY	Y
OMMENTS AND EXPLAN	ATION OF ANY VIOLAT	TONS (Reference	e all attachments h	ere)					1				, , , , , , , , , , , , , , , , , , ,
EPA Form 3320-1 (Rev	11/06) Provious aditions	may be used										1/6/2012	PAG

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION

4450 Nor	th German	Church	Road
Byron, IL	61010		

IL0048313	
PERMIT NUMBER	

	B01-0	
DISCH	IARGE NU	MBER

Γ	MO	NITORING PERIC	OD O	
	MM/DD/YYYY	i	MM/DD/YYYY	
FROM	03/01/2012	то	03/31/2012	

DMR Mailing ZIP CO	DE:
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61010

MAJOR

(SUBR 01) CS

STP PLANT EFFLUENT (FORMER 001B) External Outfall

		DISCHAF	005	
• •	" NU	DISCHAP	KGE	

PARAMETER		QUA	TITY OR LOADING	G		QUANTITY OR CON	CENTRATIO	N		NO.	FREQUENCY	SAMPLE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALU	E .	UNITS	EX	ANALYSIS	TYPE
3OD, 5-Day (20 Deg. C)	SAMPLE MEASUREMENT	<0.28	0.39	26	*****	<6.7	9.3		19	0	02/30	24
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	5.3 30DA AVG	10.5 DAILY MX	fb/d	*****	30 30DA AVG	80 DAILY I	иX	mg/L		Twice Per Month	COMP24
Н	SAMPLE MEASUREMENT	*****	*****	******	7.48	******	7.62		12	0	02/30	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	447000	*****	6 MINIMUM	*****	9 MAXIMU	JM .	SU		Twice Per Month	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	0.12	0.13	26	*****	2.8	3.2		19	0	02/30	24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	5.3 30DA AVG	10.5 DAILY MX	lb/d	*****	30 30DA AVG	60 DAILY	viX .	mg/L		Twice Per Month	COMP2
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.006	0.011	3	*****	*****	*****		*****	0	01/01	CN
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	Mga⊮d	******	******	*****	, :'	*****		Daily	CONTIN
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision in							TE	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system information submitted is,	ute the information su , or those persons dire	bmitted. Based on my i ectly responsible for gat	nquiry of the pe henng the infor	rson or persons mation, the	SIGNATURE OF PR	INCIPLE	815	406-3700		04/19/2012	
Plant Manager	aware that there are sign	rificant penalties for su				EXECUTIVE OFFICE	CER OR	AREA	NUMBER		MM/DD/YYY	Υ
COMMENTS AND EXPLANA . Flow existed through this o		•	e all attachments i	nere)				,				
Flow existed through this o EPA Form 3320-1 (Rev 01)				· ·						-	1/6/2012	P/

PER	MITTEE	NAME	ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	C01-0
PERMIT NUMBER	DISCHARGE NUMBER

	MON	MONITORING PERIOD					
	MM/DD/YYYY		MM/DD/YYYY				
ROM	03/01/2012	то	03/31/2012				

DMR Mailing ZIP CODE:

ng ZIP CODE:

61010

MAJOR

(SUBR 01) C

WWTP (FORMER 001C) External Outfall

*** NO DISCHARGE ...

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO.	FREQUENCY	SAMPLE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	14.7	39.6	19	1	02/30	24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	****	******	*****	15 30DA AVG	30 DAILY MX	mg/L		Twice Per Month	COMP2
Chromium, hexavalent as Cr)	SAMPLE MEASUREMENT	*****	*****		*****					500	
01032 1 0 Effluent Gross	PERMIT REQUIREMENT	2.5	******	******	*****	.1 30DA AVG	.2 DAILY MX	mg/L		Daily	GRAB
Chromium, total as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01034 1 0 Effluent Gross	PERMIT REQUIREMENT	******	****	*****	*****	30DA AVG	2. DAILY.MX	mg/L		Daily	GRAB
Copper, total as Cu)	SAMPLE MEASUREMENT	*****	******	*****	*****					500	
01042 1 0 Effluent Gross	PERMIT REQUIREMENT	320000	*****	*****	*****	.5 30DA AVG	1 DAILY MX	mg/L		Daily	GRAB.
ron, total as Fe)	SAMPLE MEASUREMENT	*****	*****	*****	*****	******				500	
01045 1 0 Effluent Gross	PERMIT REQUIREMENT	20000	******	******	898000	201223	1 DAILY MX	mg/L		Daily	GRAB
Lead, total (as Pb)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	!
01051 1 0 Effluent Gross	PERMIT REQUIREMENT	******		*****	22220	30DA AVG	DAILY MX	mg/L		Daily	GRAB
vickel, total as Ni)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01067 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	404098	*****		30DA AVG	DAILY MX	mg/L		Daily	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of la direction or supervision in				personnel	0 10 .		ELEPHONE		DATE	
Benjamin P. Youman	who manage the system.	y gather and evalute the information submitted. Based on my inquiry of the person or persons anage the system, or those persons directly responsible for gathering the information, the tion submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am							04/19/2012		
		ignificant penalties for submitting false information, including the possibility of EXECUTIVE OFFICER OR					INUMBER	MM/DD/YYYY			
OMMENTS AND EXPLANATI . There was no discharge of p . Flow existed through this out	rocessed steam gene	erator chemical cle		•	onth.		, co				
See DMR cover letter for WV	NTP TSS exceedence	e details.									

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME

Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road Warrenville, IL 60555-5701

FACILITY

Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	
120070313	L
PERMIT NUMBER	ופוס
LEMAIL MONDEL	

C01-0 CHARGE NUMBER

MONITORING PERIOD MM/DD/YYYY MM/DD/YYYY 03/01/2012 03/31/2012 FROM то

DMR Mailing ZIP CODE:

MAJOR

(SUBR 01) CS

WWTP (FORMER 001C) **External Outfall**

*** NO DISCHARGE

61010

PARAMETER		QUAI	NTITY OR LOADING	3	(QUANTITY OR CON	CENTRATIO	N		NO.	FREQUENCY	SAMPLE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUI	E	UNITS	EX	ANALYSIS	TYPE
Zinc, total (as Zn)	SAMPLE MEASUREMENT	*****	******	100000	199419						500	
01092 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	******	*****	******	30DA AVG	DAILY N	ıχ	mg/L		Daily	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.015	0.030	3	*****	*****	*****		*****	0	01/01	CN
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	MgeVd	92294d	230000	*****		##3040		Daity	CONTIN
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
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	PERMIT REQUIREMENT								•			
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT		, ;								. ·	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of I direction or supervision in							TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system,	ite the information su or those persons din	bmitted. Based on my in actly responsible for gath	nquiry of the per hering the infor	rson or persons nation, the	Smith RE OF PR		815	406-3700		04/19/2012	!
Plant Manager	information submitted is, aware that there are sign	ificant penalties for si				EXECUTIVE OFFICE		AREA	NUMBER		MM/DD/YYY	~
TYPED OR PRINTED	fine and imprisionment to	r knowing violations.				AUTHORIZED A	GENT	CODE	NUMBER		MANUUNTTY	T

PERM	AITTE	E NAME	/ADDRES	S
------	-------	--------	---------	---

NAME Exelon Generation Co., LLC ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313		D01-0
PERMIT NUMBER		DISCHARGE NUMBER
 MON	ITORING	DEBIOD
MON MM/DD/YYYY	ITORING	PERIOD MM/DD/YYYY

03/01/2012

FROM

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01) CS

RADWASTE TREATMENT (FORMER 001D) External Outfall

... NO DISCHARGE

ATTN: Zoe Cox/ENV SPEC PARAMETER		QUAN	ITITY OR LOADING	3		QUANTITY C	OR CON	CENTRATIC)N		NO.	FREQUENCY	SAMPLE
TATAMETER		VALUE	VALUE	UNITS	VALUE	VALU	JE	VALU	E	UNITS	EX	ANALYSIS	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	*****	4****	*****	******	<0.5	8	0.6		19	0	02/30	СР
00530 1 0 Effluent Gross	PERMIT	*****	******	******	*****	15 30DA		30 DAILY I	MX .	mg/L		Twice Per Mont	COMPOS
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.023	0.024	3	*****	****	**	*****	•	*****	0	01/01	CN
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	-Mgel/d	*****		•	****		******		Daily	CONTIN
	SAMPLE MEASUREMENT												
·	PERMIT REQUIREMENT			: . ,		•							
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT				,								
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT				•								<u> </u>
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision in	accordance with a sy	stem designed to assu	re that qualified	personnel	•	.		TEL	EPHONE		DATE	
Benjamin P. Youman	property gather and evaluation who manage the system, information submitted is,	or those persons dire	ctly responsible for gath	nering the inform	nation, the	SIGNATURE	DF FE	MOMA NCIPLE	815	406-3700		04/19/2012	2
Plant Manager	aware that there are sign fine and imprisionment to	iticant penalties for su				EXECUTIVE	E OFFIC	ER OR	AREA	NUMBER		MM/DD/YY	Υ
COMMENTS AND EXPLANAT		•	all attachments h	ere)	-				1	L	•		

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	E01-0
PERMIT NUMBER	DISCHARGE N

DISCHARGE NUMBER

	MO	NITORING PERIO	OD	
	MM/DD/YYYY		MM/DD/YYYY	
FROM	03/01/2012	то	03/31/2012	

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01) CS

STORMWATER (FORMER 001E)

External Outfall

* NO DISCHARGE		• • •
----------------	--	-------

PARAMETER		QUA	ITITY OR LOADIN	G		QUANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
PANAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	ANALYSIS	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	40004.4	*****	*****	. 15 30DA AVG	30 DAILY MX	mg/L		Weekly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	23.7	24.3	19	0	01/07	GR
00530 8 0 Other Treatment, Process Complete	PERMIT REQUIREMENT	44444	******	*****	400000	30 30DA AVG	100 DAILY MX	mg/L		Weekly	GRAB
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01032 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	F23944	84444	*****	.1 30DA AVG	.2 DAILY MX	mg/L		Daily	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	****					500	
01034 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	#11100	*****	*****	30DA AVG	2 DAILY MX	mg/L		Daily	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	451114	*****	*****					500	
01042 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	******	.5 30DA AVG	1 DAILY MX	mg/L		Daily	GRAB
ron, total (as Fe)	SAMPLE MEASUREMENT	4****	*****	****	200520	*****				500	
01045 1 0 Effluent Gross	PERMIT REQUIREMENT	******	*****	*****	******	822870	1 DAILY MX	mg/L		Daily	GRAB
Lead, total (as Pb)	SAMPLE MEASUREMENT		*****	*****	******					500	
01051 1 0 Effluent Gross	PERMIT REQUIREMENT	***************************************	*****		*****	.2 30DA AVG	.4 DAILY MX	mg/L		Daily	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of I direction or supervision in					<u> </u>		TELEPHONE		DATE	
	properly gather and evaluation manage the system, information submitted is,	or those persons dire	ectly responsible for gat	hering the inform	ation the	SIGNATURE OF PRIN		115 406-3700		04/19/2012	!
	aware that there are significe and impossionment to	ificant penalties for su				EXECUTIVE OFFICE	ER OR A	REA NUMBER		MM/DD/YYY	Υ

- 1. There was no discharge of processed steam generator chemical cleaning wastewater during the month.
- 2. Flow existed through this outfall 2 of 31 days during the month.
- 3. Flow is estimated due to replacement of installed totalizer during this month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

PAGE 1

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	E01-0
PERMIT NUMBER	DISCHARGE NUMBER
_	

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01) CS

STORMWATER (FORMER 001E)

External Outfail

*** NO DISCHARGE ...

PARAMETER		QUAN	TITY OR LOADING	3		Q	UANTITY OR CON	CENTRATIO	ON		NO.	FREQUENCY	SAMPLE
		VALUE	VALUE	UNITS	VALUE		VALUE	VALU	E	UNITS	EX	ANALYSIS	TYPE
Nickel, total (as Ni)	SAMPLE MEASUREMENT	*****	*****	*****	*****							500	
01067 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	bhooss	******	222000		30DA AVG	2 DAILY	MX	mg/L		Daily	GRAB
Zinc, total (as Zn)	SAMPLE MEASUREMENT	*****	*****	*****	*****							500	
01092 1 0 Effluent Gross	PERMIT REQUIREMENT	******	âtores	200025	F22444		1 30DA AVG	2 DAILY.	MX	mg/L		Daily	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.125	0.125	3	*****		405568	09000	•	******	0	02/30	ES
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	MgeVd	******		******	44000	•	*****		Twice Per Month	CONTIN
	SAMPLE MEASUREMENT												
<u></u>	PERMIT REQUIREMENT					: -			.,				
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
NAME/TITLE PRINCIPAL EXECUTIVE OFFICE	Imperior or subsistation in	accordance with a sy	ystem designed to assu	re that qualified	personnel		O 123 4		TE	LEPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system, information submitted is,	or those persons dire	ectly responsible for gath	nering the inform	nation, the	SI	GNATURE OF PRI	NCIPLE	815	406-3700		04/19/2012	
Plant Manager Typed on Printed	aware that there are sign fine and imprisionment to	ificant penalties for su					EXECUTIVE OFFIC	ER OR	AREA	NUMBER		MM/DD/YYY	,
COMMENTS AND EXPLANA 1. No Turbine Building Fire ar 2. Fire Protection drain water	nd Oil Sump or Generic	Non-Chemical M		-	scharged this r	nonth	ı.	-				٠.	

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

PAGE 2

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	001-0
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01)

COOLING SYSTEM BLOWDOWN

CS

External Outfall

*** NO DISCHARGE TO

PARAMETER		QUAN	ITITY OR LOADING	3		QUANTITY OR CON	CENTRATION	-	NO.	FREQUENCY	SAMPLE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	ANALYSIS	TYPE
Temperature, water deg. Fahrenheit	SAMPLE MEASUREMENT	*****	*****	4****	49994	*****	90.0	15	0	01/01	CN
00011 1 0 Effluent Gross	PERMIT REQUIREMENT	119900	*****	490000	2024-0	******	Req. Mon. MO MAX	deg F		Daily	CONTIN
рН	SAMPLE MEASUREMENT	*****	*****	*****	8.62	*****	8.80	12	0	01/07	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	6 MINIMUM	*****	9 MAXIMUM	SU	•	Weekly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	3.7	3.7	19	0	01/30	GR
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	*****	Req. Mon. 30DA AVG	Reg. Mon. DAILY MX	mg/L		Monthly	GRAB
Oil & Grease	SAMPLE MEASUREMENT	*****		*****	*****	<1.4	<1.4	19	0	01/07	GR
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	. madeum	****	900444	15 30DA AVG	20 DAILY MX	mg/L		Weekly	GRAB.
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	<0.0021	19	0	01/07	GR
01034 1 0 Effluent Gross	PERMIT REQUIREMENT	*****			*****	*****	0.2 DAILY MX	mg/L		Weekly	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	******	*****	*****	*****	*****	0.012	19	0	01/07	GR
01042 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	****	******	*****	*****	- 0.071' DAILY MX	mg/L		Weekly	GRAB
Zinc, total (as Zn)	SAMPLE MEASUREMENT	*****	*****	******	*****	0.003	0.005	19	0	01/07	GR
01092 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	ARRES	*****	*****	.213 30DA AVG	.433 DAILY MX	mg/L		Weekly	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of I direction or supervision in						TEI	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation who manage the system,	te the information sub or those persons dire	omitted. Based on my in actly responsible for gat	nquiry of the pe hering the infor	rson or persons nation, the	Signature of PRI		406-3700		04/19/2012	
Plant Manager	information submitted is, the aware that there are signifine and imprisionment to	ificant penalties for su			Cirpiete. I Mil	EXECUTIVE OFFICER OR AREA NUMBE				MM/DD/YYY	
TYPED OR PRINTED COMMENTS AND EXPLANATI	<u> </u>	- <u> </u>	all attachments b		L	AUTHORIZED AG	SENT CODE	L	l		
. Monitoring data for outfall 00 2. Copper ion skids started on 3	1-0 is included on att	•	: au attacnments n	1818)							
EPA Form 3320-1 (Rev 01/06) F	Previous editions may	/ he used								1/6/2012	PAGE

			ı	NATIONAL POL	LUTANT D	ISCHARGE ELIN	MINATION SYST	EM (NPDES)				
DEDINTEE						MONITORING R		,	DMR Mailie	ng ZiP C	ODE:	61010
NAME	NAME/ADDRESS			11.00	48313	— —	001.0		MAJOR			
ADDRESS	Exelon Generation 4300 Winfield Ro				NUMBER		001-0 DISCHARGE NUI	MPER	(SUBR 01)		CS	
ADDRESS	Warrenville, IL 60			PENNIT	NOMBER		DISCHARGE NO	MDEN	COOLING	evetek	A BLOWDOWN	
	**************************************			(· · · · · · · · · · · · · · · · · · ·	. M	ONITORING PERIO	OD.		External O		BEOMBOMA	
FACILITY	Byron Nuclear Po	wer Station		MM/D	D/YYYY	1 1	MM/DD/YYY	γ	antoma. o			
LOCATION	4450 North Germ	an Church Road	FROM	03/0	1/2012	то	03/31/2012		• •	· NO DI	SCHARGE	7 • • •
	Byron, IL 61010		'	L	-						<u> </u>	_
ATTN: Zoe (Cox/ENV SPEC											
			QUAN	NTTTY OR LOADIN	G	0	UANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMP
PAR	RAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYP
Oxidants, tot	al residual	SAMPLE MEASUREMENT	*****	******	*****	*****	*****			j	500	
34044 1 0 Effluent Gros	ss	PERMIT REQUIREMENT	passe.	******			*******	.05 DAILY MX	mg/L	. 4.	Weekly	GRA
Priority pollut	tants total effluent	SAMPLE MEASUREMENT	*****			•••••	*****				500	
50008 1 0 Effluent Gros	SS	PERMIT REQUIREMENT	*****	Req. Mon. DAILY.MX	ip/d	*****	*****	Req. Mon. DAILY MX	mg/L		Weekly	GRA
Flow, in cond treatment pla		SAMPLE MEASUREMENT	17.81	25.48	3	*****	******	*****	*****	0	01/01	CN
50050 1 0 Effluent Gros	ss	PERMIT REQUIREMENT	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	Mgal/d	*****	******	*****	*****		Daily	CONT
Chlorine, tota	al residual	SAMPLE MEASUREMENT	*****	44444	*****	******	*****	0.04	19	0	01/07	GR
50060 1 0 Effluent Gros	ss	PERMIT REQUIREMENT	******	*****	*****		******	.05 DAILY MX	mg/L		Weekly	GRA
Hydrazine		SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
81313 1 0 Effluent Gros	SS I	PERMIT REQUIREMENT	*****	*****	*****	******	.011 30DA AVG	.027 DAILY MX	mg/L		Daily When Discharging	GRA
		SAMPLE MEASUREMENT										1
		PERMIT			1		 		1 .		 	1

PRINCIPAL EXECUTIVE OFFICER

Benjamin P. Yournan

Plant Manager

Plant Manager

TYPED OR PRINTED

REQUIREMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisionment for knowing violations.

SIGNATURE OF PRINCIPLE
EXECUTIVE/OFFICER OR
AUTHORIZED AGENT

TELEPH

815 400

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

REQUIREMENT SAMPLE MEASUREMENT PERMIT

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

PAGE 2

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313 PERMIT NUMBER

FROM

002-0 DISCHARGE NUMBER

MONITORING PERIOD

MM/DD/YYYY

03/01/2012

TO

03/31/2012

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01) CS

STORMWATER RUNOFF BASIN

External Outfall

... NO DISCHARGE X

PARAMETER		QUAN	ITITY OR LOADING	G		QUANTITY OR CON	CENTRATIO	N		NO.	FREQUENCY OF	SAMPLE
FANAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUI	E	UNITS	EX	ANALYSIS	TYPE
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	******	*****	******				-			
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	******	******	*****	15 30DA AVG	30 DAILY N	их .	mg/L		Weekiy	GRAB
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****							
00530 8 0 Other Treatment, Process Complete	PERMIT REQUIREMENT	*****	*****	******	******	30 30DA AVG	100 DAILY N		mg/L		Weekly	GRAB
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	•••••							
01032 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	•••••	.011 30DA AVG	.016 DAILY N		mg/L		Daily	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	230740	*****	*****							
01034 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	#14 ***	*****	*****	30DA AVG	2 DAILY N	ЛX	mg/L		Daily	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	*****	*****	*****							
01042 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	.025 30DA AVG	.041 DAILY N		mg/L		Daily	GRAB
Iron, total (as Fe)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****						
01045 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	******	******	*****	******	DAILY N		mg/L		Daily	GRAB
Lead, total (as Pb)	SAMPLE MEASUREMENT	*****	*****	*****	*****							
01051 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*******	*****	*****	.063 30DA AVG	.298 DAILY N	4X	mg/L		Daily	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision in					0 12 1		TELE	EPHONE		DATE	
	properly gather and evalu who manage the system, information submitted is,	or those persons dire	ectly responsible for gat	hering the inform	nation, the	SIGNATURE OF PRI		815	406-3700		04/19/2012	
	aware that there are sign fine and imprisionment to	ificant penalties for su			EXECUTIVE OFFICER OR AREA NUMBER			NUMBER		MM/DD/YYY	Y	
COMMENTS AND EXPLANAT 1. No Turbine Building Fire and 2. No Fire Protection, Service V	d Oil Sump or Generic	Non-Chemical M	letal Cleaning Wast	ewater was c	•		urud Ti	Icons				
EPA Form 3320-1 (Rev 01/06)	Previous editions ma	y be used.									1/6/2012	PAGE

NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road

Warrenville, II 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	002-0	
PERMIT NUMBER	DISCHARGE NUMBER	
PERMIT NUMBER	DISCHARGE NUMBER	

	MON	ITORING PE	RIOD	
	MM/DD/YYYY		MM/DD/YYYY	
FROM	03/01/2012	то	03/31/2012	

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01) CS

STORMWATER RUNOFF BASIN

External Outfall

... NO DISCHARGE X

PARAMETER		QUA	NTITY OR LOADING	G		QUANTITY OR CON	CENTRATION	ı		NO.	FREQUENCY	SAMPLE	
- Albaneten		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE		UNITS	EX	ANALYSIS	TYPE	
Nickel, total as Ni)	SAMPLE MEASUREMENT	*****	*****	*****	*****								
01067 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	.011 30DA AVG	.176 DAILY M	x	mg/L		Daily	GRAB	
činc, total as Zn)	SAMPLE MEASUREMENT	*****	*****	******									
1092 1 0 Effluent Gross	PERMIT REQUIREMENT	******	404723	*****	******	.047 30DA AVG	.26 DAILY M	<u> </u>	mg/L		Daily	GRAB	
Dil and Grease	SAMPLE MEASUREMENT	*****	•••••	*****	4****								
3582 1 0 ffluent Gross	PERMIT REQUIREMENT	******	******	******	22200	15 30DA AVG	20 DAILY M	x	mg/L		When Discharging	GRAB	
Row, in conduit or thru realment plant	SAMPLE MEASUREMENT				*****	*****	*****	_	******			ļ.,	
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	Mgai/d	*****	*****	*****		22200		When Discharging	ESTIM/	
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT			,				· <u>.</u>					
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT											<u> </u>	
	SAMPLE MEASUREMENT					-						<u> </u>	
	PERMIT REQUIREMENT												
NAME/TITLE PRINCIPAL EXECUTIVE OFFICEI	Internation of anticipation in	n accordance with a s	ystem designed to assu	re that qualified	personnel	(n. 1	. [TELEP	HONE		DATE		
Benjamin P. Youman	properly gather and evaluation manage the system, information submitted is	or those persons dire	ectly responsible for gat	hering the inform	nation, the	SIGNATURE OF PRI		815 4	06-3700		04/19/2012		
Plant Manager	Plant Manager aware that there are significant penalties for submitting false information, including the possibility of EXECUTIVE OFFICER OR										MM/DD/YYYY		
OMMENTS AND EXPLANA This discharge point was n		NONS (Reference	e all attachments h	iere)								·	
There was no discharge of		erator chemical cl	eaning wastewater	during the mo	onth.						٠		

ATTACHMENT TO COOLING SYSTEM BLOWDOWN (Outfall 001-0) DISCHARGE MONITORING REPORT

For Exelon Byron Station Permit IL0048313 March 2012 Page 1 of 2

MONITORING DATA:

MONITORING DATA:												
DATE	CWBD Temperature deg F	CWBD Flow mgd	Rock River Flow cfs									
03/01/2012	75.5	17.87	7,670									
03/02/2012	71.0	17.98	8,190									
03/03/2012	69.7	22.50	8,490									
03/04/2012	68.0	19.36	8,390									
03/05/2012	63.6	15.90	8,220									
03/06/2012	79.0	20.02	8,030									
03/07/2012	82.1	16.06	8,200									
03/08/2012	82.1	16.78	8,520									
03/09/2012	70.9	18.45	8,800									
03/10/2012	73.9	25.48	8,900									
03/11/2012	73.9	21.19	8,870									
03/12/2012	70.9	10.79	9,250									
03/13/2012	76.4	16.86	10,700									
03/14/2012	79.0	15.93	10,700									
03/15/2012	83.7	17.01	10,400									
03/16/2012	83.0	18.66	9,890									
03/17/2012	88.0	17.51	9,410									
03/18/2012	88.0	15.36	9,110									
03/19/2012	90.0	16.78	8,920									
03/20/2012	90.0	18.17	8,800									
03/21/2012	87.7	14.75	8,530									
03/22/2012	89.3	17.54	8,430									
03/23/2012	88.1	18.47	8,600									
03/24/2012	83.3	20.42	8,620									
03/25/2012	85.3	17.03	8,520									
03/26/2012	85.3	13.28	8,190									
03/27/2012	77.0	18.75	8,200									
03/28/2012	87.0	15.26	7,910									
03/29/2012	81.2	19.92	7,610									
03/30/2012	77.2	15.30	7,710									
03/31/2012	77.2	22.79	7,730									

ATTACHMENT TO COOLING SYSTEM BLOWDOWN (Outfall 001-0) DISCHARGE MONITORING REPORT For Exelon Byron Station Permit IL0048313

Permit IL0048313 March 2012 Page 2 of 2

HYDRAZINE MONITORING:

There were no steam generator chemical cleaning solutions (or associated rinses) containing hydrazine discharged to the Cooling System Blowdown during the month of March 2012.

TOTAL QUANTITY DISCHARGED: N/A

TOTAL DURATION OF DISCHARGE: N/A

COMMENTS:

- 1. Sodium Hypochlorite was used this month. Bromine compounds were not used this month.
- 2. There was no discharge of steam generator chemical cleaning wastewater containing hydrazine in this month.
- 3. Flow existed through this outfall 31 of 31 days.
- 4. Per Special Condition 24 the influent from the Rock River and effluent from Outfall 001-0 was monitored for Total Suspended Solids (TSS) this month. The Rock River TSS value was 20.8 mg/L on 03/12/2012. The CWBD TSS value was 3.7 mg/L on 03/12/2012.
- 5. Rock River flow for March 2012 was >2400 cfs therefore daily temperature calculations were not required this month. (Special Condition 12).
- 6. There was no discharge of the 126 Priority Pollutants from cooling tower maintenance chemicals in March 2012. (Special Condition 15).



Exelon Generation Company, LLC Byron Station 4450 North German Church Road Byron, IL 61010-9794 www.exeloncorp.com

Muclean

May 21, 2012

LTR:

BYRON 2011-0059

File:

2.09.0411

1.10.0101

Illinois Environmental Protection Agency Water Pollution Control Compliance Assurance Section #19 1021 North Grand Avenue East P.O. Box 19276 Springfield, IL 62794-9276

Subject:

Byron Station Monthly Discharge Monitoring Report

In accordance with National Pollutant Discharge Elimination System (NPDES) Permit Number IL0048313, issued January 24, 2011, we are submitting the Discharge Monitoring Report for Byron Station, Units 1 and 2. This report covers the period of April 1, 2012 through April 30, 2012.

On 4/25/2012 at 18:30 hours the Unit 2 Natural Draft Cooling Tower (NDCT) basin exhibited a wave-type flow pattern that caused cooling tower water to overflow from the tower and flow into the storm water ditch located on the east side of German Church Road. The wave-type flow pattern is believed to have been caused when the flow through the NDCT had to be re-configured due to a riser pipe break. The broken riser pipe was bypassed so repairs could be made.

The cooling tower basin overflow water flowed north in the storm water ditch and entered Woodland Creek via storm water Outfall 003, East Station Area Runoff. The estimated duration of the overflow is 30.7 hours at a flow rate of approximately 25 gallons per minute resulting in an estimated 46,100 gallons of cooling tower water flowing through Outfall 003. Analysis results of a sample of the cooling tower water obtained prior to entering the storm water ditch are summarized in the following table:

рН	Copper (mg/L)	Zinc (mg/L)	Chromium (mg/L)
8.75	0.011	0.007	<0.0021

Byron Station Operators took immediate measures to lower the cooling tower water level in the basin of the NDCT to try to mitigate the effects of the wave-type flow pattern and reduce the flow of water from the basin. Sandbags were also installed to stop the flow of cooling tower water to the storm water ditch.

If there are any questions regarding this report, please contact Ms. Zoe Cox, Environmental/Radwaste Supervisor, at (815) 406-3035.

Respectfully,

Benjamin P. Youman

Plant Manager

Byron Nuclear Generating Station

BPY/ZC/eh Attachments bcc: Jennifer Gould - Environmental - Cantera (electronic) Zoe Cox - Environmental - Byron

PERMITTEE NA	AME/ADDRESS
--------------	-------------

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

FROM

04/01/2012

Byron, IL 61010

IL0048313	A01-0
PERMIT NUMBER	DISCHARGE NUMBER
MONITO	DRING PERIOD

04/30/2012

DMR Mailing ZIP CODE:

MAJOR

(SUBR 01) . CS

DEMINERALIZER REGENERATE WASTE (001A)
External Outfall

61010

*** NO DISCHARGE ...

1/6/2012

PAGE 1

PARAMETER		QUAN	TITY OR LOADIN	G		QUAN'	TITY OR CON	CENTRATIC	N		NO.	FREQUENCY	SAMPLE	
PARAMETER		VALUE	VALUE	UNITS	VALUE		VALUE	VALU	E	UNITS	EX	OF ANALYSIS	TYPE	
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	*****	*****	•••••		<0.92	1.1		19	0	01/30	08	
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	#41000	001000	*****	. 3	15 IODA AVG	30. DAILY	VDX	mg/L		Monthly	COMP-8	
Chromium, hexavalent as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****							500		
01032 1 0 Effluent Gross	PERMIT REQUIREMENT	******	* ************************************	*****	******	3	.1 IODA AVG	2 DAILY		mg/L		Dally	GRAB	
Chromium, total as Cr)	SAMPLE MEASUREMENT	******	*****	*****	*****							500		
21034 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	224440	*****	3	1 ODA AVG	DAILY		mg/L		Daily	GRAB	
Copper, total as Cu)	SAMPLE MEASUREMENT	*****	*****	*****	*****							500		
11042 1 0 Effluent Gross	PERMIT REQUIREMENT	*****		*****	\$00000	. З	.5 ODA AVG	1 DAILY I		mg/L		Daily	GRAB	
ron, total as Fe)	SAMPLE MEASUREMENT	*****	*****	*****	*****		*****					500		
01045 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	******	*****	*****		•••••	DAILY I	vix .	mg/L		Daily	GRAB	
.ead, Total as Pb)	SAMPLE MEASUREMENT	•••••	*****	*****	*****							500		
01051 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	90000	*****	3	.2 ODA AVG	DAILY		mg/L		Daily	GRAB	
lickel, total as Ni)	SAMPLE MEASUREMENT	*****	*****	*****	*****							500		
11067 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	*****	*****	3	ODA AVG	2 DAILY I	νX.	mg/L		Daily	GRAB	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of t direction or supervision in	accordance with a s	ystem designed to assu	ne that qualified	personnel		_	,	TEL	EPHONE		DATE		
Benjamin P. Youman	who manage the system,	roperly gather and evalute the information submitted. Based on my inquiry of the person or person the manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I are					SIGNATURE OF PRINCIPLE		815	406-3700		05/21/2012		
Plant Manager	aware that there are sign	triormation submitted is, to the best of my knowledge and belief, frue, accurate, and complete. I are aware that there are significant penalties for submitting false information, including the possibility of fine and imprisionment for knowing violations.						EXECUTIVE OFFICER OR			-	MM/DD/YYYY		
OMMENTS AND EXPLANAT	TON OF ANY VIOLAT	NONS (Reference	all attachments h	nere)	<u>+</u> -				CODE					
. There was no discharge of	processed steam gene	erator chemical cl	eaning wastewater	during this m	onth.									

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road Warrenville, IL 60555-5701

FACILITY **Byron Nuclear Power Station** LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	A01-0
PERMIT NUMBER	DIŞCHARGE NUMBER

	MON	ITORING F	PERIOD
	MM/DD/YYYY		MM/DD/YYYY
ROM	04/01/2012	TO	04/30/2012

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01)

DEMINERALIZER REGENERATE WASTE (001A)

CS

External Outfail

*** NO DISCHARGE

PARAMETER		QUA	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALU	E	UNITS	EX	ANALYSIS	TYPE
zinc, Total as Zn)	SAMPLE MEASUREMENT	*****	*****	*****	•••••						500	
01092 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	******	*****	******	30DA AVG	DAILY N	AX.	mg/L		Daily	GRAB
low, in conduit or thru reatment plant	SAMPLE MEASUREMENT	0.027	0.116	3	*****	*****	*****		*****	0	01/01	CN
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	Mgal/d	******	*****	******		*****		Daily	CONTIN
	SAMPLE MEASUREMENT								·····			<u> </u>
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT			··	<u> </u>							
	PERMIT REQUIREMENT			-11							5 167.41.4	-
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT										*	
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT							,				
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		ntify under penalty of law that this document and all attachments were prepared under my action or supervision in accordance with a system designed to assure that qualified personnel						TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation who manage the system.	ute the information sut , or those persons dire	bmitted. Based on my is actly responsible for gat	son or persons	n or persons Smith Change			815 406-3700		05/21/2012		
	fine and imministration at the branches detailed								NUMBER	<u> </u>	MM/DD/YYYY	
Plant Manager						AUTHORIZED A		CODE				



GE ELIMINATION SYSTEM (NPDES) NATIONAL POLLUTANT DISC DISCHARGE MONITORING REPORT (DMR)

4	
1	

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY

Byron Nuclear Power Station LOCATION 4450 North German Church Road

IL0048313	B01-0
PERMIT NUMBER	DISCHARGE NUMBER

<u> </u>	MC	MITORING PERI	OD
	MM/DD/YYYY		MM/DD/YYYY
	04/01/2012	то	04/30/2012

DMR	Mailing	ZIP	CODE:
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MAJOR

(SUBR 01) CS 61010

STP PLANT EFFLUENT (FORMER 001B) Externai Outfaii

•	٠	٠	NO	DISCH	ARG	E		٠	•

PARAMETER		QUANTITY OR LOADING				QUANTITY OR CONCENTRATION				NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALU	E	UNITS	EX	OF ANALYSIS	TYPE
BOD, 5-Day (20 Deg. C)	SAMPLE MEASUREMENT	<0.54	0.85	26	*****	<11	17.0		19	0	02/30	24
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	5.3 30DA AVG	10.5 DAILY MX	fb/d		30 30DA AVG	60 DAILY I	ИX	mg/L		Twice Per Month	COMP24
pH	SAMPLE MEASUREMENT	*****	*****	*****	7.63	•••••	7.64		12	0	02/30	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	6 MINIMUM	Resease.	9 IMIXAM	JM	SU		Twice Per Month	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	0.11	0.13	26	*****	1.8	2.5		19	0	02/30	24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	5.3 30DA AVG	10.5 DAILY MX	fb/d	919494	30 30DA AVG	60 DAILY	AX.	mg/L		Twice Per Month	COMP24
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.005	0.007	3	*****	*****	*****	-	*****	0	01/01	CN
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	Mgal/d	*****	******	*****		*****		Daily	CONTIN
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT								,			
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT							•	•			
	SAMPLE MEASUREMENT								<u></u>			
	PERMIT REQUIREMENT			-:								
NAME/TITLE PRINCIPAL EXECUTIVE OFFICES	I certify under penalty of							TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system,	te the information sub or those persons dire	coordance with a system designed to assure that qualified the information submitted. Based on my inquiry of the per those persons directly responsible for gathering the inform the best of my knowledge and betief, true, accurate, and or			mation, the			406-3700	05/21/2012		
Plant Manager TYPED OR PRINTED		significant penalties for submitting lalse information, including the int for knowing violations.			possibility of EXECUTIVE OFFICER OR			AREA NUMBE		MM/DD/YYYY		
COMMENTS AND EXPLANA	TION OF ANY VIOLAT	TONS (Reference	all attachmente h	nerei)		AUTHORIZED AG	JEN I	CODE				
. Flow existed through this o		•	, en anecimients (

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road Warrenville, IL 60555-5701

FACILITY **Byron Nuclear Power Station** LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313		Γ
PERMIT NUMBER	7	Γ

MM/DD/YYYY

04/01/2012

FROM

D10011100F 101110FD	C01-0
DISCHARGE NUMBER	DISCHARGE NUMBER

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MONITO	AING	PERIOD
_		MM/DD/YYYY
	То	04/30/2012

61010

MAJOR

(SUBR 01)

CS

WWTP (FORMER 001C)

External Outfall

... NO DISCHARGE

DADAWETTO		QUANTITY OR LOAD		G.		Q	NUANTITY OR CON	CENTRATIC	N	• 1	NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE		VALUE	VALU	E	UNITS	EX	ANALYSIS	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****		5.7	8.2		19	0	02/30	24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	*****		*****	•	15 30DA AVG	30 DAILY	MX	mg/L		Twice Per Month	COMP24
Chromium, hexavalent as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****							500	
01032 1 0 Effluent Gross	PERMIT REQUIREMENT	******	erena	*****	*****	· ·	30DA AVG	.2 DAILY	MX	mg/L	₹***.	Daily	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****							500	
01034 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	*****		30DA AVG	DAILY!	MX	mg/L		Daily	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	*****	*****	*****							500	
D1042 1 0 Effluent Gross	PERMIT REQUIREMENT	******	*****	*****	*****		.5 30DA AVG	1 DAILY	мх	mg/L		Daily	GRAB
ron, total (as Fe)	SAMPLE MEASUREMENT	******	*****	*****	*****		*****					500	
01045 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	***************************************	•••••	*****		*****	1' DAILY	MX	mg/L		Daily	GRAB
Lead, total (as Pb)	SAMPLE MEASUREMENT	*****	*****	*****	*****							500	
01051 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	*****		. 20DA AVG	.4 DAILY	MX	mg/L ·		Daily	GRAB
Nickel, total (as Ni)	SAMPLE MEASUREMENT	*****	*****	*****	*****							500	
D1067 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	*****		30DA AVG	DAILY1		mg/L		Daily	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under pensity of I direction or supervision in								TEI	EPHONE		DATE	
	properly gather and evalu who manage the system, information submitted is	or those persons din	ectly responsible for gat	hering the infor	nation, the		IGNATURE/OF PRI		815	406-3700		05/21/2012	
Plant Manager	information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisionment for knowing violations.					EXECUTIVE OFFICER OR ARI			AREA	INUMBER	MM/DD/YYYY		
COMMENTS AND EXPLANAT . There was no discharge of p . Flow existed through this ou	processed steam gen	erator chemical cl			onth.					1	<u>,,,</u>		***************************************
EPA Form 3320-1 (Rev 01/	ne) Provious aditions	may be used										1/6/2012	PAGE

DISCHARGE MONITORING REPORT (DMR)

PERMIT	tee n	AME/A	ADDRESS
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NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

	IL0048313	
1	PERMIT NUMBER	

04/01/2012

FROM

	C01-0	
DISC	HARGE NUMBER	

MONITORING PERIOD MM/DD/YYYY MM/DD/YYYY 04/30/2012 TO

DMR Mailing ZIP CODE:

61010

MAJOR (SUBR 01)

CS

WWTP (FORMER 001C)

External Outfall

... NO DISCHARGE

1092 1 0 Ifluent Gross	SAMPLE EASUREMENT PERMIT	VALUE	VALUE	UNITS	VALUE	VALUE	VALUE		UNITS	EX	OF ANALYSIS	TYPE
s Zn) Mi 1092 1 0 Huent Gross R	EASUREMENT	*****	*****									
fluent Gross R	DEDMIT				****		}	}			500	
	EQUIREMENT	*****	******	*****	******	30DA AVG	DAILY M	x	mg/L		Daily	GRAS
ow, in conduit or thru eatment plant M	SAMPLE EASUREMENT	0.016	0.025	3	*****	*****	******		*****	0	01/01	CN
0050 1 0 Ifluent Gross . R	PERMIT EQUIREMENT	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	Mga/d	******	******	*******		*****	:	Daily	CONTIN
M	SAMPLE EASUREMENT											
R	PERMIT EQUIREMENT									,		
M	SAMPLE EASUREMENT											
R	PERMIT EQUIREMENT						Ī					
M	SAMPLE EASUREMENT											
я	PERMIT EQUIREMENT											
M	SAMPLE EASUREMENT											
R	PERMIT EQUIREMENT											24. 23 23
M	SAMPLE EASUREMENT											
, a	PERMIT EQUIREMENT	A						٠				-
RINCIPAL EXECUTIVE OFFICER direc	ction or supervision in	accordance with a s	t and all attachments waystem designed to assu	re that qualified	personnel			TEL	EPHONE		DATE	
Benjamin P. Youman who	manage the system,	or those persons dire	omitted. Based on my is actly responsible for gatt wiedge and belief, true,	nering the inform	nation, the	BIGNATURE OF PRI		815 406-3700			05/21/2012	
Plant Manager awa		ificant penalties for su	medge and belief, true, britishing false information			EXECUTIVE OFFIC	ER OR	AREA	NUMBER		MM/DD/YYY	Y
OMMENTS AND EXPLANATION			all attachments b	aral		AUTHORIZED AC	BENT (CODE		L		

DISCHARGE MONITORING REPORT (DMR)

PFHX	ALT TEE	NAME/	ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

 IL0048313	
PERMIT NUMBER	

MM/DD/YYYY

04/01/2012

FROM

D01-	0	
DISCHARGE		

MONITO	RING	PERIOD	
		MM/DD/YYYY	
	то	04/30/2012	7

61010

MAJOR

(SUBR 01)

CS

RADWASTE TREATMENT (FORMER 001D) External Outfall

*** NO DISCHARGE

0530 1 0 Iffluent Gross ow, in conduit or thrust eatment plant MEA	SAMPLE ASUREMENT PERMIT QUIREMENT	VALUE	VALUE	UNITS	VALUE	VALUE	VALUE		UNITS	EX	OF ANALYSIS	TYPE
0530 1 0 Iffluent Gross ow, in conduit or thrust eatment plant MEA	ASUREMENT PERMIT		*****	*****	*****							
Iftuent Gross REC ow, in conduit or thru patment plant MEA		$\overline{}$,	1	<0.8	1.2	i	19	0	02/30	СР
eatment plant MEA		******	******	TOURSE .	******	15 30DA AVG	30 DAILY M	x	mg/L		Twice Per Month	COMPOS
	SAMPLE ASUREMENT	0.022	0.023	3	*****	******	*****		*****	0	01/01	CN
	PERMIT QUIREMENT	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	MgaVd	******	******	* 31	:	******		Daily	CONTIN
	SAMPLE ASUREMENT											······
I I	PERMIT QUIREMENT				e de la companya de l							
	SAMPLE ASUREMENT											
■ *	PERMIT QUIREMENT											
T .	SAMPLE ASUREMENT											
	PERMIT QUIREMENT											
MEA	SAMPLE ASUREMENT											
	PERMIT QUIREMENT									,		
	SAMPLE ASUREMENT											
I.	PERMIT QUIREMENT										•	
			t and all attachments w ystem designed to assu					TEL	EPHONE		DATE	
Benjamin P. Youman who m	ly gather and evalu anage the system,	ite the information sub or those persons dire	omitted. Based on my in actly responsible for gath	nquiry of the per hering the inform	rson or persons mation, the	Signature of PRI		815	406-3700		05/21/2012	 !
Plant Manager aware	that there are signi		wiedge and belief, true, ibmitting false information			EXECUTIVE OFFIC	ER OR	AREA	NUMBER		MM/DD/YYY	Υ
OMMENTS AND EXPLANATION O	· · · · · · · · · · · · · · · · · · ·		all attachments b			AUTHORIZED AC	JENT	CODE				

PERM	ITTEE	NAME/ADDRESS
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NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	
PERMIT NUMBER	

FROM

		E	01-	0		
	DISCH	AR	GE	NUM	3ER	
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MO	NITORING PERIC	OD
MM/DD/YYYY		MM/DD/YYYY
04/01/2012	то	04/30/2012

DMR Mailing ZIP CODE:

61010

MAJOR (SUBR 01)

CS

STORMWATER (FORMER 001E)

External Outfall

*** NO DISCHARGE

PARAMETER		QUAI	NTTTY OR LOADING	G		QUANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLI
PANARETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	•••••	*****		<u>-</u>			500	
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	•ii-n	15 30DA AVG	30 DAILY MX	mg/L		Weekly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	*****	******	•••••	•••••	24.6	24.8	19	0	01/07	GR
00530 8 0 Other Treatment, Process Complete	PERMIT REQUIREMENT	*****	******	******	******	30 30DA AVG	100 DAILY MX	mg/L		Weekly	GRAB
Chromium, hexavalent as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01032 1 0 Effluent Gross	PERMIT REQUIREMENT	******	*****		******	.1 30DA AVG	.2 DAILY MX	mg/L		Daily	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	*****	•••••	•••••					500	
01034 1 0 Effluent Gross	PERMIT REQUIREMENT	******		*****	******	1 30DA AVG	2 DAILY MX	mg/L		Daily .	GRAB
Copper, total as Cu)	SAMPLE MEASUREMENT	•••••	*****	*****	*****					500	
01042 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	******	*****	*****	.5 30DA AVG	1 DAILY MX	mg/L	-	Daily	GRAB
ron, total as Fe)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****				500	
)1045 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	•••••	•••••		1 DAILY MX	mg/L		Daily	GRAB
ead, total as Pb)	SAMPLE MEASUREMENT	*****	******	*****	*****					500	
)1051 1 0 Effluent Gross	PERMIT - REQUIREMENT	424002	******	*****		.2 30DA AVG	.4 DAILY MX	mg/L		Daily	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision to	n accordance with a s	ystem designed to assu	re that qualified	personnel	0 2.4		TELEPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system information submitted is,	, or those persons din	ectly responsible for gat	hering the inform	nation, the	SICNATURE OF PRI		315 406-3700		05/21/2012	
Plant Manager	aware that there are sign fine and imprisionment to	rificant penalties for su			unipriore. Tauli	EXECUTIVE OFFIC	ER OR	REA NUMBER	<u> </u>	MM/DD/YYY	Y

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- 1. There was no discharge of processed steam generator chemical cleaning wastewater during the month.
- 2. Flow existed through this outfall 5 of 30 days during the month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.
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1/6/2012

PAGE 1

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	
PERMIT NUMBER	

E01-0 DISCHARGE NUMBER

	MO	NITORING PERI	OD	
	MM/DD/YYYY		MM/DD/YYYY	
FROM	04/01/2012	то	04/30/2012	

DMR Mailing ZIP CODE:

:

61010

MAJOR

(SUBR 01)

STORMWATER (FORMER 001E)

CS

External Outfall

*** NO DISCHARGE ...

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PERMITTEE	NAME/ADDRESS
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NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FROM

04/01/2012

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	001-0
PERMIT NUMBER	DISCHARGE NUMBER
MONITORI	NG PERIOD
MONITORI MM/DD/YYYY	NG PERIOD MM/DD/YYYY

04/30/2012

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01)

CS

COOLING SYSTEM BLOWDOWN

External Outfall

*** NO DISCHARGE ...

PARAMETER		QUAN	ITITY OR LOADIN	G		QUANTITY OR CON	CENTRATIO	N		NO.	FREQUENCY	SAMPLE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALU	E	STINU	EX	ANALYSIS	TYPE
emperature, water deg. ahrenheit	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	89.9		15	0	01/01	CN
0011 1 0 ffluent Gross	PERMIT REQUIREMENT	******	******	*****	0-1341	E44444	Req. Mo MO MA		deg F		Daily	CONTIN
н	SAMPLE MEASUREMENT	*****	******	*****	8.64	*****	8.85		12	0	01/07	GR
0400 1 0 ffluent Gross	PERMIT REQUIREMENT	******	******	*****	6 MINIMUM	•••••	9 MAXIMU	ĮM.	sυ		Weekly	GRAB
olids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	1.9	1.9		19	0	01/30	GR
0530 1 0 ffluent Gross	PERMIT REQUIREMENT	*****	******	*****	******	Req. Mon. 30DA AVG	Req. Me DAILY!		mg/L		Monthly	GRAB
il & Grease	SAMPLE MEASUREMENT	*****	*****	*****	•••••	<1.6	2.1		19	0	01/07	GR
0556 1 0 ffluent Gross	PERMIT REQUIREMENT	*****	******	*****	******	15 30DA AVG	20 DAILY J	ΑX	mg/L		Weekly	GRAB
hromium, total (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	<0.002	1	19	0	01/07	GR
1034 1 0 fluent Gross	PERMIT REQUIREMENT	eiseta.	******	*****	******	*****	0.2 DAILY I	ΛX	mg/L		Weekly	GRAB
opper, total (as Cu)	SAMPLE MEASUREMENT	*****	*****	*****	******	******	0.012		19	0	01/07	GR
1042 1 0 fluent Gross	PERMIT REQUIREMENT	******	*****	******	•••••	******	0.071 DAILY 1		mg/L		Weekly	GRAB
inc, total (as Zn)	SAMPLE MEASUREMENT	*****	*****	*****	******	<0.0022	0.003		19	0	01/07	GR
1092 1 0 ffluent Gross	PERMIT REQUIREMENT	*****	******	****	******	.213 30DA AVG	.433 DAILY (mg/L		Weekly	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICE	I certify under penalty of I direction or supervision to							TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system, information submitted is,	ite the information suf or those persons dire	omitted. Based on my lactly responsible for gat	nquiry of the pe hering the infor	nation, the	Signature of PRI		815	406-3700		05/21/2012	
Plant Manager	aware that there are sign	ificant penalties for su				EXECUTIVE OFFIC	ER OR	AREA	NUMBER		MM/DD/YYY	·
TYPED OR PRINTED	fine and imprisionment fo	r knowing violations.	····			AUTHORIZED AG	ENT	CODE	NOMBER		MINUUD/TTT	·
OMMENTS AND EXPLANA Monitoring data for outfall (•	ell attachments f	nere)								

PERMITTEE	NAME/ADDRESS
NAME	Exelon Generation Co., LLC
ADDRESS	4300 Winfield Road
	Warrenville, IL 60555-5701

Byron Nuclear Power Station

LOCATION 4450 North German Church Road

Byron, IL 61010

FACILITY

IL0048313	001-0
PERMIT NUMBER	DISCHARGE NUMBER
	•
MONITO	ORING PERIOD

TO

04/30/2012

04/01/2012

FROM

DMR Mailing	ZIP	CODE	<u>:</u> :
MAJOR			

61010

(SUBR 01) CS

COOLING SYSTEM BLOWDOWN External Outfall

*** NO DISCHARGE

ATTN: Zoe Cox/ENV SPEC QUANTITY OR LOADING QUANTITY OR CONCENTRATION FREQUENCY NO. SAMPLE **PARAMETER** VALUE VALUE UNITS VALUE VALUE VALUE UNITS EX TYPE **ANALYSIS** SAMPLE ***** ***** **** Oxidants, total residual 500 MEASUREMENT 34044 1 0 PERMIT Weekty GRAB mg/L REQUIREMENT DAILY, MX Effluent Gross SAMPLE Priority pollutants total effluent ***** ***** 500 MEASUREMENT 50008 1 0 PERMIT Reg. Mon. Reg. Mon. ***** ***** (b/d mg/L Weekly GRAB: DAILY MX Effluent Gross REQUIREMENT DAILY MX Flow, in conduit or thru SAMPLE ***** 3 17.96 24.83 0 01/01 CN treatment plant MEASUREMENT 50050 1 0 PERMIT ... Req. Mon. Reg. Mon. ***** Mgal/d ***** ***** ****** Daily CONTIN Effluent Gross REQUIREMENT 30DA AVG DAILY MX SAMPLE Chlorine, total residual ***** 0.04 19 0 01/07 GR MEASUREMENT 50060 1 0 PERMIT-.05 mo/L · Weekly GRAB Effluent Gross REQUIREMENT DAILY MX SAMPLE Hydrazine ***** ***** ***** ***** 500 **MEASUREMENT** 81313 1 0 PERMIT .011 .027 Daily When. ***** ****** ma/L GRAB Effluent Gross REQUIREMENT 30DA AVG DAILY MX Discharging. SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT NAME/TITLE certify under penalty of law that this document and all attachments were prepared under my TELEPHONE DATE PRINCIPAL EXECUTIVE OFFICER direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evalute the information submitted. Based on my inquiry of the person or persons 815 406-3700 Benjamin P. Youman 05/21/2012 who manage the system, or those persons directly responsible for gathering the information, the SIGNATURE OF PRINCIPLE information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am EXECUTIVE OFFICER OR Plant Manager AREA aware that there are significant penalties for submitting talse information, including the possibility of NUMBER MM/DD/YYYY TYPED OR PRINTED **AUTHORIZED AGENT** fine and imprisionment for knowing violations. COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) EPA Form 3320-1 (Rev 01/06) Previous editions may be used. 1/6/2012 PAGE 2

PERMI	TTFF	NAME	ממא/י	RESS

NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313 PERMIT NUMBER 002-0 DISCHARGE NUMBER

RING PE	RIOD
	MM/DD/YYYY
то	04/30/2012

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01) CS

STORMWATER RUNOFF BASIN External Outfall

···NO DISCHARGE X

PARAMETER		QUAI	NTITY OR LOADING	G	0	DUANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	*****	*****	******						
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	******	15 30DA AVG	30 DAILY MX	mg/L		Weekty	GRAB
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	*****	*****	******						
00530 8 0 Other Treatment, Process Complete	PERMIT REQUIREMENT	******	and the same and the		and and a	30 30DA AVG	100 DAILY MX	mg/L		Weekly	GRAB
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	hacese	*****	*****	*****						
D1032 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	******	*****	Free Wash	.011 30DA AVG	.016 DAILY MX	mg/L	-n. ::	Daily	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	******	******	******						
D1034 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	*****	******* K	1 30DA AVG	2 DAILY MX	mg/L		Daily	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	******	*****	*****	*****						
01042 1 0 Effluent Gross	PERMIT REQUIREMENT	******	#00000 	**************************************		.025 30DA AVG	.041 DAILY MX	mg/L	isa jiri	Daily	GRAB
ron, total as Fe)	SAMPLE MEASUREMENT	*****	*****	******	*****	*****					
01045 1 0 Effluent Gross	PERMIT REQUIREMENT	******	*****		*****	*****	DAILY MX	mg/L		Daily	GRAB
Lead, total (as Pb)	SAMPLE MEASUREMENT	*****	*****	•••••	*****						
01051 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	**************************************	**************************************	******	.063 30DA AVG	298 DAILY MX	mg/L		Daily	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision is	n accordance with a s	ystem designed to assu	re that qualified	l personnel			EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system information submitted is.	or those persons din	ectly responsible for gat	hering the infor	mation, the	IGNATURE OF PRI	NCIPLE 815	406-3700		05/21/2012	
Plant Manager	aware that there are sign fine and imprisionment for	ificant penalties for su				EXECUTIVE OFFIC		NUMBER	610	MM/DD/YYY	Υ

- 1. No Turbine Building Fire and Oil Sump or Generic Non-Chemical Metal Cleaning Wastewater was discharged this month.
- 2. No Fire Protection, Service Water or Closed Cooling System Drain Water was discharged this month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

PAGE 1

DISCHARGE MONITORING REPORT (DMR)

DEDL	AITTEE	BEALAT.		DECC
FEDR	MII LEE	NAME	MUU	ness

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, II 60555-5701

FACILITY Byron Nuclear Power Station

LOCATION 4450 North German Church Road

4450 North German Church Road Byron, IL 61010

IL0048313	
PERMIT NUMBER	

FROM

002-0	
DISCHARGE NUMBER	_

MC	NITORING	PERIOD	
MM/DD/YYYY		MM/DD/YYYY	
04/01/2012	10	04/30/2012	

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01)

STORMWATER RUNOFF BASIN

External Outfall

*** NO DISCHARGE X

CS

x ...

PARAMETER		QUAN	ITITY OR LOADING)		QUANTITY OR CONCENTRATION					FREQUENCY	SAMPLE
, M. Dane I C.		VALUE	VALUE	UNITS	VALUE	VALUE	VALU	E	UNITS	EX	ANALYSIS	TYPE
Nickel, total (as Ni)	SAMPLE MEASUREMENT	*****	*****	*****	*****							
01067 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	******	###### // /	*****	.011 30DA AVG	.176 DAILY I		mg/L		Daily	GRAB
Zinc, total (as Zn)	SAMPLE MEASUREMENT	*****	*****	******	*********							
01092 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	******	400000	.047 30DA AVG	.26 DAILY I	MX	mg/L		Daily	GRAB
Oil and Grease	SAMPLE MEASUREMENT	•••••	*****	*****	910000							
03582 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	*****	******	15 30DA AVG	20 DAILY	MX	mg/L		When Discharging	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT				*****	*****	*****	•	*****			
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	Mgal/d	*****	*****	*****		*****		When Discharging	ESTIMA
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
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	PERMIT REQUIREMENT											
NAME/TITLE PRINCIPAL EXECUTIVE OFFIC	I certify under penalty of direction or supervision is							TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system information submitted is,	, or those persons dire	ectly responsible for gati	nering the inform	nation, the	SIGNATURE OF PR	INCIPLE	815	406-3700		05/21/2012	<u> </u>
Plant Manager	aware that there are sign	nificant penalties for su			onipiete. Lenn	EXECUTIVE OFFIC		AREA	NUMBER		MATTER	~
TYPED OR PRINTED	fine and imprisionment to	or knowing violations.			1	AUTHORIZED A	GENT	CODE	HOWREH		MM/DD/YYY	T

- 1. This discharge point was not used this month.
- 2. There was no discharge of processed steam generator chemical cleaning wastewater during the month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

PAGE 2

ATTACHMENT TO COOLING SYSTEM BLOWDOWN (Outfall 001-0) DISCHARGE MONITORING REPORT

For Exelon Byron Station Permit IL0048313 April 2012 Page 1 of 2

MONITORING DATA:

	CWBD	CWBD Flow	Rock River
DATE	Temperature		Flow
	deg F	mgd	cfs
04/01/2012	82.5	15.02	6,880
04/02/2012	81.7	14.38	6,860
04/03/2012	83.6	16.80	6,930
04/04/2012	83.6	17.00	6,800
04/05/2012	77.6	15.63	6,630
04/06/2012	75.1	17.27	6,510
04/07/2012	76.4	21.46	6,380
04/08/2012	79.6	17.00	6,170
04/09/2012	80.8	12.47	5,930
04/10/2012	78.7	16.48	5,770
04/11/2012	73.5	16.79	5,680
04/12/2012	79.5	17.40	5,610
04/13/2012	79.0	16.16	5,490
04/14/2012	85.3	22.60	5,380
04/15/2012	89.9	16.13	7,590
04/16/2012	89.9	12.77	8,410
04/17/2012	82.3	18.26	8,170
04/18/2012	81.8	15.13	8,000
04/19/2012	87.2	18.33	7,350
04/20/2012	86.2	15.58	7,120
04/21/2012	77.7	22.24	6,970
04/22/2012	79.1	21.17	6,630
04/23/2012	82.5	16.50	6,430
04/24/2012	83.4	21.37	6,330
04/25/2012	86.4	19.51	6,160
04/26/2012	86.4	21.41	6,100
04/27/2012	81.3	22.92	5,940
04/28/2012	81.3	24.83	5,840
04/29/2012	82.2	20.47	5,930
04/30/2012	85.2	15.69	6,130

ATTACHMENT TO COOLING SYSTEM BLOWDOWN (Outfall 001-0) DISCHARGE MONITORING REPORT

For Exelon Byron Station Permit IL0048313 April 2012 Page 2 of 2

HYDRAZINE MONITORING:

There were no steam generator chemical cleaning solutions (or associated rinses) containing hydrazine discharged to the Cooling System Blowdown during the month of April 2012.

TOTAL QUANTITY DISCHARGED: N/A

TOTAL DURATION OF DISCHARGE: N/A

COMMENTS:

- 1. Sodium Hypochlorite was used this month. Bromine compounds were not used this month.
- 2. There was no discharge of steam generator chemical cleaning wastewater containing hydrazine in this month.
- 3. Flow existed through this outfall 30 of 30 days.
- 4. Per Special Condition 24 the influent from the Rock River and effluent from Outfall 001-0 was monitored for Total Suspended Solids (TSS) this month. The Rock River TSS value was 44.3 mg/L on 04/09/2012. The CWBD TSS value was 1.9 mg/L on 04/09/2012.
- 5. Rock River flow for April 2012 was >2400 cfs therefore daily temperature calculations were not required this month. (Special Condition 12).
- 6. There was no discharge of the 126 Priority Pollutants from cooling tower maintenance chemicals in April 2012. (Special Condition 15).



Exelon Generation Company, LLC Byron Station 4450 North German Church Road Byron, IL 61010-9794 www.exeloncorp.com

Nuclear

June 15, 2012

LTR: BYRON 2012-0064

File: 2.09.0411

1.10.0101

Illinois Environmental Protection Agency Water Pollution Control Compliance Assurance Section #19 1021 North Grand Avenue East P.O. Box 19276 Springfield, IL 62794-9276

Subject:

Byron Station Monthly Discharge Monitoring Report

In accordance with National Pollutant Discharge Elimination System (NPDES) Permit Number IL0048313, issued January 24, 2011, we are submitting the Discharge Monitoring Report for Byron Station, Units 1 and 2. This report covers the period of May 1, 2012 through May 31, 2012.

On 05/03/2012 between 03:45 and 05:12 cooling tower water from the Unit 1 Natural Draft Cooling Tower (NDCT) basin flowed over the basin into the storm water ditch located on the east side of German Church Road. The flow was approximately 1.1 gallons per minute for an estimated duration of 87 minutes resulting in approximately 92 gallons of cooling tower water flowing through storm water Outfall 003, East Station Area Runoff. The cause of the overflow is a large number of NDCT fill packs fell into the cooling tower basin in a short period of time. This caused the delta level across the debris fence in the NDCT to rapidly rise from 0.5 feet to 2 feet which pushed the water out of the basin. Byron Station Operations personnel took immediate measures to lower the cooling tower water level in the basin of the NDCT to stop the overflow. In addition measures were taken to remove the fallen fill packs from the NDCT basin debris fence to lower the delta level across the fence.

If there are any questions regarding this report, please contact Ms. Zoe Cox, Environmental/Radwaste Supervisor, at (815) 406-3035.

Respectfully.

Benjamin P. Youman

Plant Manager

Byron Nuclear Generating Station

BPY/ZC/eh Attachments

		•				AINATION SYSTE B EPORT (DMR)	TM (MLDE2)	DMR Mailin	g ZIP C	ODE:	61010
PERMITTEE NAME/ADDRES	S					, .		MAJOR	_		
NAME Exelon General	_ · · · · · · · · · · · · · · · · · · ·		IL004	8313		A01-0				CS	
ADDRESS 4300 Winfield F			PERMIT	NUMBER		DISCHARGE NUM	MBER				
Warrenville, IL	60555-5701	,						DEMINERA	LIZER I	REGENERATE W	ASTE (001A)
				M	ONITORING PERI	OD		External O	utfali		
FACILITY Byron Nuclear	Power Station		MM/DI	YYYYX		MM/DD/YYY	Υ				_
OCATION 4450 North German Church Road FROM		05/01	/2012	то	05/31/2012		···NO DISCHARGE				
Byron, IL 6101 ATTN: Zoe Cox/ENV SPEC	0										
		QUAN	NTITY OR LOADING		(NANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	******	*****	*****	2.1	2.1	19	0	01/30	08
00530 1 0 Effluent Gross	AREQUIREMENT		erre V			15 2004 AVO	DALEY ACC	TO.		Monthly	COMP-8
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	*****	******	*****	******					500	
											2000

Solids, Total Suspended	SAMPLE MEASUREMENT		#000g0	*****	*****	2.1	2.1	19	0	01/30	08
00530 1 0 Effluent Gross	REPART		and V			-300A AVG	DALEXAGO			Month	COMP 8
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01032 1 0 Effluent Gross	PERMIT	TE		Die	The same of the	200A AVB	DALVAN	1004		TO NO.	CRAS
Chromium, total (as Cr)	SAMPLE MEASUREMENT	******	*****		*****					500	
01034 1 0 Effluent Gross	REDIREMENT.					and Wall	ZDAEX MOS	TO!		O Part &	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	*****	200022	*****					500	
01042 1 0 Effluent Gross	PERMIT			****		SODA AVO.		.mg1		Page 1	GRAB
Iron, total (as Fe)	SAMPLE MEASUREMENT	*****	*****	*****	*****	401040				500	
01045 1 0 Effluent Gross	DECOURSE OF THE				ill parks	77.5	en la ver	POLET		CORN.	OPAR-
Lead, Total (as Pb)	SAMPLE MEASUREMENT	******	******	******	******					500	
01051 1 0 Effluent Gross	BECKERENBYT				77.	3001 AVC	DALYVX	mod		Park.	GRAB.
Nickel, total (as Ni)	SAMPLE MEASUREMENT	******	******	*****	*****					500	
01067 1 0 Effluent Gross	PERMIT					SOTIO AVID	PANAMO	m91.	100	C Day	(apv
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision	in accordance with a s	ystem designed to assu	re that qualified	personnel			LEPHONE		DATE	_
Benjamin P. Youman	properly gather and eva- who manage the system information submitted is	n, or those persons dir	ectly responsible for gat	nering the infor	mation, the complete. I am	BIGNATURE OF PA	INCIPLE 815	406-3700		06/15/2012	
Plant Manager	aware that there are sig	nificant penalties for s			possibility of	EXECUTIVE OFFICE	ER OR ARE	NUMBER		MM/DD/YYY	~
TYPED OR PRINTED	TON OF ANY VIOLA					AUTHORIZED A	GENT COD	E	<u> </u>		·

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachmenta here)

- 1. There was no discharge of processed steam generator chemical cleaning wastewater during this month.
- 2. Flow existed 31 of 31 days during this month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012 PAGE 1

61010

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) **DISCHARGE MONITORING REPORT (DMR)** DMR Mailing ZIP CODE: 61010 MAJOR PERMITTEE NAME/ADDRESS IL0048313 A01-0 NAME Exelon Generation Co., LLC (SUBR 01) CS PERMIT NUMBER DISCHARGE NUMBER ADDRESS 4300 Winfield Road **DEMINERALIZER REGENERATE WASTE (001A)** Warrenville, IL 60555-5701 MONITORING PERIOD External Outfall FACILITY Byron Nuclear Power Station MM/DD/YYYY MM/DD/YYYY LOCATION 4450 North German Church Road FROM 05/01/2012 TO 05/31/2012 ***NO DISCHARGE Byron, IL 61010 ATTN: Zoe Cox/ENV SPEC FREQUENCY QUANTITY OR LOADING **QUANTITY OR CONCENTRATION** SAMPLE

PARAMETER		207	THE OF LONDING			GOZGIIII GII GOI	1001110110			NO. OF		SAMPLE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE		UNITS	EX	ANALYSIS	TYPE
Zinc, Total as Zn)	SAMPLE MEASUREMENT	*****	*****	*****	*****						500	
01092 1 0 Effluent Gross	DESCRIPTIONS.					3004 440	DALA	œ.	TO E		900	GRAB
Flow, in conduit or thru reatment plant	SAMPLE MEASUREMENT	0.033	0.094	3	*****	*****	*****		*****	0	01/01	CN
60050 1 0 Effluent Gross	REQUIREMENT	Reg Mon	Reg. Mon	Month				# 1		*	of Dairy	CONTIN
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	PERMIT					1 32 - 48						
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	PERMIT											
	SAMPLE MEASUREMENT											
	DECUMENT											
	SAMPLE MEASUREMENT											
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	SAMPLE MEASUREMENT											
	PERMIT											
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision i							TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and eval who manage the system information submitted is,	i, or those persons dir	actly responsible for gat	hering the infor	nation, the	SIGNATURE OF	BINCIPLE	815	406-3700		06/15/2012	2
	aware that there are signifine and imprisionment to	nificant penalties for s				EXECUTIVE OFFI		AREA	NUMBER		MM/DD/YY	~
TYPED OR PRINTED	ting the company of the contract of the contra	or informing violations.			1	AUTHORIZED A	GENT	CODE	11020001	1		•

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY **Byron Nuclear Power Station** LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	B01-0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD MM/DD/YYYY MM/DD/YYYY 05/01/2012 05/31/2012 FROM TO

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01)

STP PLANT EFFLUENT (FORMER 001B)

CS

External Outfall

"" NO DISCHARGE

ATTN: Zoe Cox/ENV SPEC FREQUENCY **QUANTITY OR LOADING** QUANTITY OR CONCENTRATION NO. SAMPLE PARAMETER OF EX **TYPE** VALUE VALUE UNITS VALUE VALUE VALUE UNITS ANALYSIS SAMPLE BOD, 5-Day 0.38 0.50 26 5.5 6.0 19 02/30 24 (20 Deg. C) MEASUREMENT 00310 1 0 PERMIT 53 10.5 TWICE PAY MONTH COMP24 Effluent Gross CUREYEN SAMPLE οН 02/30 7.57 7.65 0 GR MEASUREMENT 00400 1 0 PERMIT ------1 6 W 75. B 15. Date Per Mont FOUREMENT Effluent Gross SAMPLE Solids, total suspended 0.18 26 1.9 2.1 19 0 02/30 24 0.14 MEASUREMENT 105 00530 1 0 PERMIT 1353 30 - **60** Effluent Gross Flow, in conduit or thru SAMPLE 0.010 01/01 0.004 CN treatment plant MEASUREMENT Heq Mon 50050 1 0 PERMIT Flog Mon. Effluent Gross PEOUREMENT SAMPLE MEASUREMENT PERMIT RECURRENCE SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT NAME/TITLE certify under penalty of law that this document and all attachments were prepared under my TELEPHONE DATE PRINCIPAL EXECUTIVE OFFICER direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evalute the information submitted. Based on my inquiry of the person or persons SIGNATURE OF PRINCIPLE 815 406-3700 Benjamin P. Youman who manage the system, or those persons directly responsible for gathering the information, the 06/15/2012 information submitted is, to the best of my knowledge and betief, true, accurate, and complete. I am Plant Manager aware that there are significant penalties for submitting talse information, including the possibility of **EXECUTIVE OFFICER OR** AREA NUMBER MM/DD/YYYY fine and imprisionment for knowing violations. TYPED OR PRINTED **AUTHORIZED AGENT** CODE COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) Flow existed through this outfall 30 of 31 days during this month. EPA Form 3320-1 (Rev 01/06) Previous editions may be used. 1/6/2012 PAGE 1



DISCHARGE MONITORING REPORT (DMR)

PERMIT	TEE N	ame/a	DDRESS
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NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road

4300 Winfield Road Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station

LOCATION 4450 North German Church Road

Byron, IL 61010

1L004	3313
PERMIT N	IUMBER

FROM

C01-0 DISCHARGE NUMBER

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01) CS

WWTP (FORMER 001C)

External Outfall

··· NO DISCHARGE ...

PARAMETER		QUA	NIDAOJ RO YTITI	G		QUANTITY OR CON	CENTRATIO	N		NO.	FREQUENCY OF	SAMPLE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUI	E	UNITS	EX	ANALYSIS	TYPE
iolids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	3.9	6.5		19	0	02/30	24
0530 1 0 iffluent Gross	REPORT					200 / 4/2		O.	mo/L		Targe Per More	COMPE
thromium, hexavalent as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	******						500	
11032 1 0 iffluent Gross	PERMIT			1777.0		CODA AVG	2		TOL.		S Den	GRAR
thromium, total as Cr)	SAMPLE MEASUREMENT	******	******	******	*****						500	
01034 1 0 Effluent Gross	PERMIT	7.7			20-171	C ATTIVAVO			.no4		7e Den 24	GRAS
Copper, total as Cu)	SAMPLE MEASUREMENT	,	*****	*****	*****						500	
01042 1 0 Effluent Gross	DECURENENT.					300A NO.	DAILY		T POL		Daily	GRAB
ron, total as Fe)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****					500	
01045 1 0 Effluent Gross	PERMIT OF THE PE		7						pot.		Delta :	GPAB
ead, total as Pb)	SAMPLE MEASUREMENT	*****	*****	*****	40000						500	
11051 1 0 Effluent Gross	PERMIT ADEQUIREMENT.			102		300AAVO	DATE		my.		Dev	GPUB
lickel, total as Ni)	SAMPLE MEASUREMENT	*****	*****	*****	*****						500	
01067 1 0 Effluent Gross	DECHIDENESS.					200A AVG		α	100/		D-N	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision i	n accordance with a s	ystem designed to assu	ire that qualified	personnel			TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system information submitted is	, or those persons din	ectly responsible for gat	hering the inton	10001, 010	SIGNATURE OF PRI		815	406-3700		06/15/2012	?
Plant Manager	aware that there are significant penalties for submitting false information, including the possibility of EXECUTIVE OFFICER OR AREA NUMBER MM//								MM/DD/YYY	γ		
TYPED OR PRINTED	<u> </u>					AUTHORIZED AC	SENT	CODE				
COMMENTS AND EXPLANAT There was no discharge of p Flow existed through this ou	processed steam gen	erator chemical cl		-	onth.							
EPA Form 3320-1 (Rev 01/	OC) Descione editions	may be used									1/6/2012	PAGE

61010

DMR Mailing ZIP CODE:

PERMITTEE	NAME/ADDRESS										MAJOR					
NAME	Exelon Generatio	n Co., LLC	į	IL004	8313			C01-0		,	(SUBR 01)		cs			
ADDRESS	4300 Winfield Ro	ad		PERMIT	NUMBER			DISCHARGE NUMBER								
	Warrenville, IL 60	555-5701											ORMER 001C)			
						IONITORII	IG PERK	PERIOD Externa								
FACILITY	Byron Nuclear Po				DYYYY	─┤.		MM/DD/YYY								
LOCATION	4450 North Germ	an Church Road	FROM	<u> </u>	/2012		го	05/31/2012				*NO DISCHARGE				
	Byron, IL 61010															
ATTN: 208	Cox/ENV SPEC		OUA	NTTTY OR LOADING		T		UANTITY OR CON	CENTRATIO			T	FREQUENCY			
PAI	RAMETER					 						NO.	OF	SAMPLE TYPE		
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PRINCIPAL E	EXECUTIVE OFFICER	" (direction or supervision in accordance with a system designed to assure that qualified personnel ,								DATE						
Renian	nin P. Youman	properly gather and eval who manage the system			Janna C		815	406-3700		06/15/2012	·					
1		information submitted is	, to the best of my kno	of my knowledge and belief, true, accurate, and complete. I am SIGNATURE OF SPRINCIPLE							<u> </u>	OG/15/2012				
	nt Manager	aware that there are sign fine and imprisionment to		ties for submitting false information, including the possibility of EXECUTIVE OFFICER OR AREA NUMBER MM/7							MM/DD/YY	~				
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COMMENT	S AND EXPLANAT	TON OF ANY VIOLA	OF ANY VIOLATIONS (Reference all attachments here)													
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		,	···-,										******	raut 4		



DMR Mailing ZIP CODE:

1/6/2012

PAGE 1

61010

PERMITTEE	NAME/ADDRESS	3					_				_	MAJOR			
NAME	Exelon Generation	on Co., LLC		11.004	8313		L		D01-0			(SUBR 01)			
ADDRESS	4300 Winfield Ro	oad		PERMIT	NUMBER		L		DISCHARGE NU	MBER					
	Warrenville, IL 6	0555-5701										RADWAST	E TREA	TMENT (FORI	4ER 001D)
					MONITORING PERIOD					External O	utfali				
FACILITY	Byron Nuclear P	ower Station		MM/DI	MM/DD/YYYY				MM/DD/YYY	Υ]				
LOCATION	4450 North Gern	nan Church Road	FROM	05/01	/2012		TO		05/31/2012	2		• •	· NO DI	SCHARGE	_] ···
	Byron, IL 61010							_							
ATTN: Zoe	Cox/ENV SPEC														
			QUAL	NTITY OR LOADING	3.	1		Q	UANTITY OR COM	NCENTRATIO	N		NO.	FREQUENC	SAMPLE
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PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station **LOCATION** 4450 North German Church Road

FROM

Byron,	lL	61010

DISCHARGE MONITO	HING REPORT (DMH)
IL0048313	E01-0
PERMIT NUMBER	DISCHARGE NUMBER

MONITO	RING	PERIOD
MW/DD/YYYY		MM/DD/YYYY
05/01/2012	то	05/31/2012

DMR Mailing ZIP CODE:

MAJOR

(SUBR 01)

STORMWATER (FORMER 001E)

CS

External Outfall

*** NO DISCHARGE

1/6/2012

PAGE 1

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				DIS	CHARGE I	MONITORING R	EPORT (DMR)		OMR Mailin	ıg ZIP C	ODE:	61010	
PERMITTEE N	IAME/ADDRES	SS							MAJOR				
NAME I	Exelon Genera	tion Co., LLC		IL004	18313		E01-0				CS		
ADDRESS 4	4300 Winfield Road			PERMIT	NUMBER		DISCHARGE NU	MBER					
1	Warrenville, IL	60555-5701							STORMWA	TER (F	ORMER 001E)		
					M	ONITORING PERH		External Outfall					
FACILITY I	Byron Nuclear	Power Station		MM/DI	OMM	T	MM/DD/YYY	η					
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ĺ	Byron, IL 6101	0										-	
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2. Fire Protection drain water was not discharged this month.

(Rev 01/06) Previous	editions may be used.	

PAGE 2

1/6/2012

DMR Mailing ZIP CODE:

61010

1/6/2012

PAGE 1

PERMITTEE	NAME/ADDRESS						_					MAJOR				
NAME	Exelon Generation	on Co., LLC		IL0048313 PERMIT NUMBER			L	001-0 DISCHARGE NUMBER				(SUBR 01) CS				
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FACILITY	Byron Nuclear Po	ower Station			2/11/1		L		MM/DD/YYYY	· · · · · · · · · · · · · · · · · · ·]				_	
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	Byron, IL 61010										_				-	
ATTN: Zoe	Cox/ENV SPEC															
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EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

PERMITTEE NAME/ADDRESS

DMR Mailing ZIP CODE:

MAJOR

61010

NAME Exelon Generation	n Co., LLC			8313			001-0			(SUBR 01)		CS	
ADDRESS 4300 Winfield Ro			PERMIT	NUMBER	J	L	DISCHARGE NUM	(BER	┙				
Warrenville, IL 60	555-5701				ONITORIN	O DEDIC	<u> </u>					BLOWDOWN	
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PARAMETER		VALUE	VALUE	UNITS	VAL	UE	VALUE	VALUE	E	UNITS	EX.	OF ANALYSIS	TYPE
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34044 1 0 Effluent Gross	PERMIT			- 20000	73.77			O5 DARY		mo/L	ed ba	West	GRAB
	SAMPLE			STATE OF THE PARTY	~~		1	27-21					10 10 10 10 10 10 10 10 10 10 10 10 10 1
Priority pollutants total effluent	MEASUREMENT	*****		l	****	**	*****					500	
50008 1 0 Effluent Gross	REPORT HEND		Reg Mon	700		1659		CAR Y		god	100	a Weeks	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	20.55	27.56	3	***	••	*****	*****		*****	0	01/01	CN
50050 1 0 Effluent Gross	PERMIT	Req. Mon.	Req Mon	Model						anne.	Sile	P Dollar	CONTIN
Chlorine, total residual	SAMPLE MEASUREMENT	*****	*****	*****	***		*****	0.03		19	0	01/07	GR
50060 1 0 Effluent Gross	REQUIREMENT							OALY.	X	med		Weeky	GRAB
Hydrazine	SAMPLE MEASUREMENT	******	*****	*****	••••	•••						500	
81313 1 0 Effluent Gross	PERMIT AND A SECURITY OF THE S			2.17		123	2001 2000 AVG	25 027		not	320	Daily When 2	GRAB :
	SAMPLE MEASUREMENT												1
{	PERMIT				7.5								
	SAMPLE MEASUREMENT												
	RECURREMENT											TO KEN	7.5
NAME/TITLE	I certify under penalty of	law that this documen	it and all attachments w						TF	EPHONE		DATE	
PRINCIPAL EXECUTIVE OFFICER	direction or supervision in properly gather and eval					ne	12. 21	1			├		
Benjamin P. Youman	who manage the system information submitted is,	, or those persons din	ectly responsible for gat	hering the infor	nation, the	S	IGNATURE OF BALL		815	406-3700	L	06/15/2012	
Plant Manager TYPED OR PRINTED	aware that there are sign	nificant penalties for si					EXECUTIVE OFFICE AUTHORIZED AC		AREA	NUMBER		MM/DD/YYY	Υ
COMMENTS AND EXPLANAT	tine and imprisionment to		e all attachments I	vere)					COUR	·			
EPA Form 3320-1 (Rev 01/06)	Previous editions ma	y be used.										1/6/2012	PAGE 2

DISCHARGE MONITORING REPORT (DMR)

PERMITT	EE N/	ame/a	DDRE	:SS
---------	-------	-------	------	-----

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	
1200 10010	
PERMIT NUMBER	
. = 4411 (40148211	

FROM

002-0	
 DISCHARGE NUMBER	

MONITO	RING	PERIOD
MM/DD/YYY		MWDDYYYY
05/01/2012	TO	05/31/2012

DMR Mailing ZIP CODE:

61010

MAJOR (SUBR 01)

STORMWATER RUNOFF BASIN

External Outfall

... NO DISCHARGE X ...

-		TITT ON LOADEN	R LOADING		UANTITY OR CON	N		NO. FREQUENCY		SAMPLE	
	VALUE	VALUE	UNITS	VALUE	VALUE	VALUI	E	UNITS	EX	ANALYSIS	TYPE
SAMPLE MEASUREMENT	*****	*****	******	44444							
			1		an ex vice	DAILY:		mod.		Washing .	TOBAR
MEASUREMENT	=====	*****	*****	******							
PERSONAL PROPERTY AND ADDRESS OF THE PERSONAL PR					- 301 AVC 3)00 NDAE 1	nc.	THE S			
SAMPLE MEASUREMENT	*****	*****		*****							
PERMIT	TO THE LE				011p-e-	DAU VI	ñ.	TO L	60	V. Den	STAR
SAMPLE MEASUREMENT	*****	*****	*****	*****							
DECUMPENTAL.		70,0			TODA AVO	DALY		not:	*		CRAB
MEASUREMENT	******	*****	202000	*****							
CONTRACTOR OF		-			005	3 or 10	O Ve			i de la companya de l	GRAR
MEASUREMENT	*****	*****	200000	*****	*****						
CHECK BERNINGS							W.	100/			984
MEASUREMENT	*****	******	######################################	estates			×. ×		100 a 400		
	700	town.		1000	SOON AVO.	DITT.	oć.	mo.L.			GRAB.
direction or supervision is	n accordance with a s	ystem designed to assu	re that qualified	l personnel	0 10		ł			DATE	
who manage the system.	, or those persons dir	ectly responsible for gat	hering the inton	mation, the	IGNATURE OF BA	INCIPLE	815	406-3700		06/15/2012	2
aware that there are sign	nificant penalties for s						AREA	NUMBER		MM/DD/YY1	'n
	MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT CERMIT GENETIC GENETIC GENETIC SAMPLE MEASUREMENT CERMIT GENETIC GENETIC SAMPLE MEASUREMENT CERMIT GENETIC SAMPLE MEASUREMENT CERMIT GENETIC SAMPLE MEASUREMENT CONTINUES OF THE PROPERTY OF	MEASUREMENT SAMPLE SAMPLE MEASUREMENT SAMPLE SAMPL	MEASUREMENT SAMPLE SAMPLE MEASUREMENT SAMPLE SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAM	MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT Certify under penalty of law that this document and all attachments were prepared underction or supervision in accordance with a system designed to assure that qualified properly gather and evaluate the information submitted. Based on my inquiry of the performance of the property gather and evaluate the information submitted. Based on my inquiry of the performance with a system designed to assure that qualified information submitted is, to the best of my knowledge and besief, true, accurate, and cavare that there are significant penalties for submitting talse information, including the aware that there are significant penalties for submitting talse information, including the aware that there are significant penalties for submitting talse information, including the aware that there are significant penalties for submitting talse information, including the submitted is accordance with a system designed to assure that qualified the information submitted is accordance with a system designed to assure that qualified the information submitted is accordance with a system designed to assure that qualified the information submitted is accordance with a system designed to assure that qualified the information submitted is accordance with a system designed to assure that qualified the information submitted is accordance with a system designed to assure that qualified the information submitted is accordance with a system designed to assure that qualified the information submitted is accordance with a system designed to assure that qualified the information submitted is accordance with a system designed to assure that qualified the information submitted is accordance with a system designed to assure that qualified the information submitted is accordance with a system designed to assure that qualified the i	MEASUREMENT SAMPLE MEASUR	MEASUREMENT SAMPLE MEASUREMENT PERMIT SAMPLE MEASUREMENT SAMPLE SAMPLE MEASUREMENT SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPL	MEASUREMENT SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPL	MEASUREMENT SAMPLE MEASUREME	MEASUREMENT STOA AND BAMPLE MEASUREMENT PERMIT STOA AND DISCONDING BAMPLE MEASUREMENT PERMIT SAMPLE MEASUREMENT PERMIT SAMPLE MEASUREMENT PERMIT PERMIT SAMPLE MEASUREMENT PERMIT SAMPLE MEASUREMENT PERMIT SAMPLE MEASUREMENT PERMIT SAMPLE MEASUREMENT PERMIT SAMPLE MEASUREMENT PERMIT SAMPLE MEASUREMENT PERMIT SAMPLE MEASUREMENT PERMIT SAMPLE MEASUREMENT PERMIT SAMPLE MEASUREMENT PERMIT SAMPLE MEASUREMENT PERMIT SAMPLE MEASUREMENT PERMIT SAMPLE MEASUREMENT SAMPLE MEASUREMENT PERMIT SAMPLE MEASUREMENT SAMPLE SAMPLE MEASUREMENT SAMPLE M	REASUREMENT PERMIT P	MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE SAMPLE ME

- 1. No Turbine Building Fire and Oil Sump or Generic Non-Chemical Metal Cleaning Wastewater was discharged this month.
- 2. No Fire Protection, Service Water or Closed Cooling System Drain Water was discharged this month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

PAGE 1



DEGMITTEE	NAME/ADDRESS		•	DIS		MONITORING R	LW (W DEO)	DMR Mailir MAJOR	ng ZIP C	ODE:	61010		
NAME ADDRESS	Exelon Generation 4300 Winfield Ro	on Co., LLC		PERMIT		$\exists \vdash$	002-0 DISCHARGE NUM	MBER	(SUBR 01)		cs		
	Warrenville, Il 60	555-5701			м	ONITORING PERI	OD		STORMWA External O		NOFF BASIN		
FACILITY LOCATION	Byron Nuclear Po 4450 North Gem Byron, IL 61010 Cox/ENV SPEC	nan Church Road	FROM		/2012	то	MM/DD/YYY 05/31/2012		••	• NO DE	SCHARGE X	•••	
			QUA	NTTTY OR LOADING	 G	(QUANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE	
PAR	AMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE	
Nickel, total (as Ni)		SAMPLE MEASUREMENT	*****	423994	*****	******							
01067 1 0 Effluent Gros	ss	DECUREMENT.	1	7.00			2004 AVG	170	mol o		PPO T	CPAB	
Zinc, total (as Zn)		SAMPLE MEASUREMENT	*****	*****	*****								
01092 1 0 Effluent Gros	ss	PERMIT X					047 30DA AVE	26 - OA C 400	mot.		Par	GP/0	
Oil and Grea	se	SAMPLE MEASUREMENT	*****	******	*****	*****	<u> </u>						
03582 1 0 Effluent Gros		PERMIT					300 AVG	DAILY NO	mo/		Discheming.	GRAB	
Flow, in conductive at the conductive transfer of transfer of tran		SAMPLE MEASUREMENT				*****	401400	******	*****				
50050 1 0 Effluent Gros	is	PERMIT		Reg Mon	Month						When Deschamme	ESTIMA	
		SAMPLE MEASUREMENT											
		PERMIT					1246-27		X. J.				
		SAMPLE MEASUREMENT											
		PERMIT			7.0		10.70			1			
		SAMPLE			I				1	1			

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Benjamin P. Youman Plant Manager TYPED OR PRINTED

certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evalute the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisionment for knowing violations.

SIGNATURE OF BRINCIPLE EXECUTIVE OFFICER OR **AUTHORIZED AGENT**

TELEPHONE 406-3700 815 AREA NUMBER

CODE

06/15/2012 MM/DD/YYYY

DATE

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

MEASUREMENT

- 1. This discharge point was not used this month.
- 2. There was no discharge of processed steam generator chemical cleaning wastewater during the month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

For Exelon Byron Station Permit IL0048313 May 2012 Page 1 of 2

MONITORING DATA:

WONITOHING		· · · · · · · · · · · · · · · · · · ·	B. (5:
DATE	CWBD Temperature deg F	CWBD Flow mgd	Rock River Flow cfs
05/01/2012	86.0	22.71	6,180
05/02/2012	92.5	19.66	6,160
05/03/2012	96.1	22.35	6,090
05/04/2012	96.1	19.40	5,990
05/05/2012	91.5	26.25	5,960
05/06/2012	90.2	21.26	6,040
05/07/2012	90.2	16.10	6,490
05/08/2012	89.0	20.31	7,090
05/09/2012	86.9	20.77	7,560
05/10/2012	86.3	21.37	7,660
05/11/2012	89.2	20.81	7,610
05/12/2012	90.7	27.56	7,380
05/13/2012	88.9	22.68	7,170
05/14/2012	90.6	15.14	7,060
05/15/2012	91.1	20.80	6,900
05/16/2012	91.1	19.23	6,570
05/17/2012	85.6	20.10	6,470
05/18/2012	93.2	22.87	6,360
05/19/2012	94.7	25.09	6,150
05/20/2012	95.0	17.36	5,960
05/21/2012	95.0	13.79	5,710
05/22/2012	84.0	19.80	5,620
05/23/2012	86.0	18.06	5,460
05/24/2012	84.4	18.97	5,310
05/25/2012	93.0	19.39	5,000
05/26/2012	89.0	24.88	5,140
05/27/2012	99.0	20.18	5,140
05/28/2012	99.0	18.83	5,100
05/29/2012	97.8	18.99	4,860
05/30/2012	94.0	19.70	4,700
05/31/2012	84.8	22.67	4,820

ATTACHMENT TO COOLING SYSTEM BLOWDOWN (Outfall 001-0) DISCHARGE MONITORING REPORT For Exelon Byron Station Permit IL0048313 May 2012 Page 2 of 2

HYDRAZINE MONITORING:

There were no steam generator chemical cleaning solutions (or associated rinses) containing hydrazine discharged to the Cooling System Blowdown during the month of May 2012.

TOTAL QUANTITY DISCHARGED: N/A

TOTAL DURATION OF DISCHARGE: N/A

COMMENTS:

- 1. Sodium Hypochlorite was used this month. Bromine compounds were not used this month.
- 2. There was no discharge of steam generator chemical cleaning wastewater containing hydrazine in this month.
- 3. Flow existed through this outfall 31 of 31 days.
- 4. Per Special Condition 24 the influent from the Rock River and effluent from Outfall 001-0 was monitored for Total Suspended Solids (TSS) this month. The Rock River TSS value was 25.3 mg/L on 05/07/2012, 31.3 mg/L on 05/14/2012 and 22.8 mg/L on 05/29/2012. The CWBD TSS value was 2.1 mg/L on 05/14/2012 and 1.1 mg/L on 05/29/2012.
- 5. Rock River flow for May 2012 was >2400 cfs therefore daily temperature calculations were not required this month. (Special Condition 12).
- 6. There was no discharge of the 126 Priority Pollutants from cooling tower maintenance chemicals in May 2012. (Special Condition 15).



Exelon Generation Company, LLC Byron Station 4450 North German Church Road Byron, IL 61010-9794 www.exeloncorp.com

Nuclear

July 23, 2012

LTR: BYRON 2012-0082

File: 2.09.0411

1.10.0101

Illinois Environmental Protection Agency Water Pollution Control Compliance Assurance Section #19 1021 North Grand Avenue East P.O. Box 19276 Springfield, IL 62794-9276

Subject:

Byron Station Monthly Discharge Monitoring Report

In accordance with National Pollutant Discharge Elimination System (NPDES) Permit Number IL0048313, issued January 24, 2011, we are submitting the Discharge Monitoring Report for Byron Station, Units 1 and 2. This report covers the period of June 1, 2012 through June 30, 2012.

If there are any questions regarding this report, please contact Ms. Zoe Cox, Supervisor Environmental/Radwaste, at (815) 406-3035.

Respectfully,

Smart Jumen
Benjamin P. Youman

Plant Manager

Byron Nuclear Generating Station

BPY/ZC/eh

Attachments

Attachment 2 Example Verification Completion Form Page 1 of 1

	rage rorr		
Verification Documentation			
Correspondence/Letter number: 20	112-0087	Origination Dat	e: <u>7-19-12</u>
Agency/External Stakeholder: IEPA	\	Submittal Due	Date: <u>7-23-12</u>
Recipient of Correspondence: IEPA	WPC CAS #19		
		nd title if known)	
Purpose of Submittal: June 2012 DM	R		
Originating Office: Cantera	☐ Kennett Sc	quare 🔀 Site	
Preparer: Zoe Cox (print)		(sign)	(specify) 7-19-13 (date)
Peer Reviewer: David Starke (print)		besed Starker (sign)	7-23-12 (date)
Certified Mail Return Receipt Requ	ested: X Yes	□No	
Approv	vals (check box if	applicable)	
Applicat	ole Date Review	Signature of Revi	ewer Date of

Site Departments Chemistry X 07-20-12 Operations Engineering Regulatory Assurance Other: (specify) Corporate SME/FAM Site Management **Plant Manager** X 07-23-12 ☐ Report Signed and Approved Site Vice President

Attach additional page for comments.

PERM	ITTEE	NAME	/ADD	RESS

NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	A01-0
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01) CS

DEMINERALIZER REGENERATE WASTE (001A) External Outfall

···NO DISCHARGE

PARAMETER		QUANTITY OR LOADING				QUANTITY OR CONCENTRATION					FREQUENCY	SAMPLE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE		UNITS	EX	ANALYSIS	TYPE
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	9.7	10.1		19	0	01/30	08
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	esotat.	******	******	15 30DA AVG	30 DAILY M	px.	mg/L		Monthly	сомр-
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	*****	441580	*****	*****						500	
D1032 1 0 Effluent Gross	PERMIT REQUIREMENT	24444	*****	202020	######################################	.1 30DA AVG	-2 DAILY M	X	mg/L		Daily	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****						500	
01034 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	aberse ,	A4448	******	30DA AVG	2 PAILY M	DX.	mg/L		Daily	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	*****	•••••	*****						500	
01042 1 0 Effluent Gross	PERMIT REQUIREMENT	*4****	*******	E24000	agusta	5 30DA AVG	1 DAILY M	DΧ	mg/L		Daily	GRAB
ron, total as Fe)	SAMPLE MEASUREMENT	*****	******	*****	*****	*****					500	
D1045 1 0 Effluent Gross	PERMIT REQUIREMENT	C C C C C C C C C C C C C C C C C C C	*******	*****	881000	******	1 DAILY M	pχ	mg/L		Daily	GRAB
Lead, Total (as Pb)	SAMPLE MEASUREMENT	*****	*****	*****	******						500	
D1051 1 0 Effluent Gross	PERMIT REQUIREMENT	222649	esset 1	\$400 it	820000	.2 30DA AVG	,4 DAILY M	īΧ	mg/L		Daily	GRAB
Nickel, total as Ni)	SAMPLE MEASUREMENT	*****	*****	*****	******						500	
D1067 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	******	*****	******	1 30DA AVG	2 DAILY M	īΧ	mg/L		Daily	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of la direction or supervision in							TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evalut who manage the system, (information submitted is, to	or those persons dire	ctly responsible for gatt	hering the inform	nation, the	SIGNATURE OF PRI	NCIPLE	815	406-3700		07/23/2012	
Plant Manager	aware that there are signif- fine and imprisionment for	icant penalties for su				EXECUTIVE OFFIC	ER OR	AREA	NUMBER		MM/DD/YYY	,
TYPED OR PRINTED COMMENTS AND EXPLANAT There was no discharge of p E. Flow existed 29 of 30 days of	ION OF ANY VIOLATI Processed steam gene	ONS (Reference		•	onth.	AUTHORIZED AG	SENT	CODE	NUMBER		MMUUJITY	
PA Form 3320-1 (Rev 01/06)	Previous editions may	be used.									1/6/2012	PAG

			1	NATIONAL POL	LUTANT DI	ISCHARGE ELII	MINATION SYST	EM (NPDES)				
				DIS	CHARGE	MONITORING F	REPORT (DMR)		DMR Mailin	g ZIP C	ODE:	61010
PERMITTEE	NAME/ADDRESS	3							MAJOR	_		
NAME	Exelon Generati	on Co., LLC		ILOO	48313		A01-0		(SUBR 01)		CS	
ADDRESS	4300 Winfield Re	oad	ĺ	PERMIT	NUMBER		DISCHARGE NUI	MBER				
	Warrenville, IL 6	0555-5701							DEMINERA	LIZER (REGENERATE W	ASTE (001A)
			[M	IONITORING PER	IOD		External Or	utfall		
FACILITY	Byron Nuclear P	ower Station	{	MM/D	D/YYYY		MM/DD/YYY	Υ				_
LOCATION	4450 North Gern	nan Church Road	FROM	06/0	1/2012	то	06/30/2012		• •	NO DI	SCHARGE	} • • •
	Byron, IL 61010		•								•	
ATTN: Zoe	Cox/ENV SPEC											
DAG	RAMETER		QUAN	TITY OR LOADIN	G	}	QUANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
PAI			VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	ANALYSIS	TYPE
Zinc, Total (as Zn)	-	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01092 1 0 Effluent Gro	ss	PERMIT REQUIREMENT	******	******	*****	******	1 30DA AVG	2 DAILY MX	mg/L		Daily	GRAB
Flow, in con- treatment pla	-	SAMPLE MEASUREMENT	0.046	0.132	3	*****	*****	•••••	*****	0	01/01	CN
50050 1 0 Effluent Gro	ss	PERMIT REQUIREMENT	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	MgeVd	*****	******	******	******		Daily	CONTIN .

		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	E	UNITS	_ EX	ANALYSIS	ITPE
Zinc, Total (as Zn)	SAMPLE MEASUREMENT	*****	*****	*****	*****						500	
01092 1 0 Effluent Gross	PERMIT: REQUIREMENT	******	*****	*****	*****	1 30DA AVG	2 DAILY N		mg/L		Daily	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.046	0.132	3	*1****	*****	•••••		*****	0	01/01	CN
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	Mgavd	*****	******	*****		*****		Daily	CONTIN
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT							:				
<u> </u>	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
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	PERMIT REQUIREMENT			•								
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision in							TE	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system information submitted is,	ute the information su , or those persons dir	ibmitted. Based on my i ectly responsible for gat	nquiry of the pe hering the infor	rson or persons	SIGNATURE OF PRI	INCIPLE	815	406-3700		07/23/2012	
Plant Manager	aware that there are sign fine and imprisionment to	nificant penaltics for s				EXECUTIVE OFFIC		AREA	NUMBER		MM/DD/YYY	
TYPED OR PRINTED	ting one mithier comment is	a intowning violations.				AUTHORIZED A	GENT	CODE	HOMBEN			•

DEDMITTEE	NAME/	UDBESS

NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byron,	u	61010
Dyiui,	-	01010

IL00-	48313
PERMIT	NUMBER

B01-0
 DISCHARGE NUMBER

MONF	TORING	PERIOD
MM/DD/YYYY		MM/DD/YYYY
06/01/2012	TO	06/30/2012

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01) CS

STP PLANT EFFLUENT (FORMER 001B)

External Outfall

***NO DISCHARGE ...

DADAMETED	PARAMETER		QUANTITY OR LOADING			QUANTITY OR CON	CENTRATIO	QUANTITY OR CONCENTRATION				SAMPLE
PARABLICA		VALUE	VALUE	UNITS	VALUE	VALUE	VALUI	E .	UNITS	EX	OF ANALYSIS	TYPE
BOD, 5-Day (20 Deg. C)	SAMPLE MEASUREMENT	0.42	0.58	26	*****	6.0	7.0		19	0	02/30	24
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	5.3 30DA AVG	10.5 DAILY MX	lb/d	490314	30 30DA AVG	60 DAILY 6	AX :	mg/L		Twice Per Month	COMP24
ЭН	SAMPLE MEASUREMENT	*****	*****	*****	7.54	*****	7.58		12	0	02/30	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	******	MINIMUM.	*****	9 MAXIML	JM	SU	٠.	Twice Per Month	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	0.17	0.23	26	*****	2.3	2.8		19	0	02/30	24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	5.3 30DA AVG	10.5 DAILY MX	lb/d	****	30 30DA AVG	DAILY N	AX.	rŋg/L		Twice Per Month	COMP24
Flow, in conduit or thru reatment plant	SAMPLE MEASUREMENT	0.006	0.013	3	*****	*****	•••••		*****	0	01/01	CN
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	Mgal/d	*****	*****			864444		Daily	CONTIN
	SAMPLE MEASUREMENT		-									
_	PERMIT REQUIREMENT											
_	SAMPLE MEASUREMENT	-							i .			
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of I direction or supervision in							TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system, information submitted is,	the information sub or those persons dire	omitted. Based on my in ectly responsible for gatl	nquiry of the per nering the inform	son or persons nation, the	IGNATIONE OF AN		815	406-3700		07/23/2012	
Plant Manager	aware that there are signifine and imprisionment to	ificant penalties for su				EXECUTIVE OFFIC	ER OR	AREA	NUMBER		MM/DD/YYY	
TYPED OR PRINTED	Trans of to mathematical part of	A MICHAEL VICE LOCAL				AUTHORIZED AC	SENT	CODE				

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS Exelon Generation Co., LLC ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

		Byron,	IL	610	10
ATTN:	Zoe	Cox/EN	<u>/ \$</u>	PEC	

NAME

IL0048313	C01-0
PERMIT NUMBER	DISCHARGE NUMBER

	MONITO	RING	PERIOD	_
	MM/DD/YYYY		MM/DD/YYYY	
FROM	06/01/2012] το	06/30/2012	_

DMR Mailing ZIP CODE:

MAJOR

(SUBR 01) CS

WWTP (FORMER 001C)

External Outfall

*** NO DISCHARGE

61010

DADAMETED		QUANTITY OR LOADING				QUANTITY OR CONCENTRATION				NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUI	E	UNITS	EX	ANALYSIS	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	*****	******		*****	4.1	4.2		19	0	02/30	24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	******	422.00	*****	15 30DA AVĢ	30 DAILY N	AX	mg/L		Twice Per Month	COMP24
Chromium, hexavalent as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****						500	
01032 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	******	*****	******	.1 SODA AVG	2 DAILY N	ИX	mg/L		Daily	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	******	*****	200200						500	
01034 1 0 Effluent Gross	PERMIT REQUIREMENT	84000	400000	******	*****	1 SODA AVG	2 DAILY N	ΛX	mg/L		Daily	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	*****	*****	*****						500	
01042 1 0 Effluent Gross	PERMIT REQUIREMENT	274000	******	299000		.5 30DA AVG	1 DAILY N	ИX	mg/L	+3.75	Daily	GRAB
Iron, total (as Fe)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****					500	
01045 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	900000	DAILY A	4X	mg/L		Daily	GRAB
Lead, total (as Pb)	SAMPLE MEASUREMENT	*****	*****	*****	*****						500	
01051 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	4*****	272464	*****	.2 30DA AVG	.4 DAILY N	ķΧ	mg/L		Daily	GRAB
Nickel, total (as Ni)	SAMPLE MEASUREMENT	*****	*****	*****	*****						500	
01067 1 0 Effluent Gross	PERMIT REQUIREMENT	201000	******	*****	201000	30DA AVG	2 DAILY N	νX	mg/L -		Daily	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of to direction or supervision in	accordance with a s	ystem designed to assu	re that qualified	personnel	α ' ₂		TE	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation who manage the system, information submitted is	or those persons din	actly responsible for gat	thering the inform	nation, the	SIGNATURE OF PH	NCIPLE	815	406-3700		07/23/2012	
Plant Manager	aware that there are signi	mation submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am e that there are significant penalties for subminting false information, including the possibility of and imprisionment for knowing violations.				EXECUTIVE OFFICER OR			NUMBER		MM/DD/YYY	Y
OMMENTS AND EXPLANAT There was no discharge of particular that is out the control of the contro	processed steam gene	erator chemical cl		•	onth.			CODE	1		 	<u></u>
EPA Form 3320-1 (Rev 01/			······								1/6/2012	PAG

PERMITTEE	MANAGIA	DODECC
LEUMII I CC	NAME	DDUESS

NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	C01-0
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01) CS

WWTP (FORMER 001C)

External Outfail

***NO DISCHARGE

PARAMETER		QUAN	TITY OR LOADING	G		QUANTITY OR CO	CENTRATIO	N		NO.	FREQUENCY OF	SAMPLE
{_		VALUE	VALUE	UNITS	VALUE	VALUE	VALU	E	UNITS	EX	ANALYSIS	TYPE
nc, total is Zn)	SAMPLE MEASUREMENT	******	*****	*****	*****						500	
1092 1 0 Ifluent Gross	PERMIT REQUIREMENT	****	Ropose	*****	411100	30DA AVG	DAILY		mg/L		Daily	GRAB
ow, in conduit or thru eatment plant	SAMPLE MEASUREMENT	0.015	0.029	3	*****	*****	****	•	*****	0	01/01	CN
0050 1 0 ifluent Gross	PERMIT REQUIREMENT.	Req. Mon. 30DA AVG	Req: Mon. DAILY MX	Mgavd	*****	******	*****	•	*****		Daily	CONTIN
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT			. 64				·				
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											•
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT	. 										
	PERMIT REQUIREMENT											
Ĺ	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT					1					<u> </u>	
RINCIPAL EXECUTIVE OFFICER	certify under penalty of ti	accordance with a sy	ystem designed to assu	re that qualified	personnel	.		TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation who manage the system, information submitted is, the system of the system is the system of the sy	or those persons dire	ectly responsible for gati	hering the inform	nation, the	SIGNATURE OF PE	MCIPLE	815	406-3700		07/23/2012	!
Plant Manager a	ware that there are signi	ricant penalties for su				EXECUTIVE OFFI		AREA	NUMBER		MM/DD/YYY	v
TYPED OR PRINTED	ine and imprisionment for	r knowing violations.				AUTHORIZED A	GENT	CODE	HOMBER			<u> </u>

PERMITTEE	NAME/ADDRESS	•		DIS	CHARGE	MONITOR	ING R	EPORT (DMR)			DMR Mailin MAJOR	ig ZIP C	ODE:	61010
NAME	Exelon Generation		ſ	IL004	8313			D01-0		1	(SUBR 01)		cs	
ADDRESS	4300 Winfield Ro	•		PERMIT			-	DISCHARGE NUM	ARER	ł	(SOBN VI)			
ADDRESS	Warrenville, IL 6		ı	, Citar,	TOMOLIT		Щ_	DIOOT IATOL 1401	- DEN	J	DADWACT	- m-	THENT (CORNER	. 004D)
	AASTIGUMEN IT O	U333-37U1	ſ			ONITORING	DEDIC	<u> </u>		1			TMENT (FORMER	(טוטט)
FACILITY	Byron Nuclear Po	nunce Station		MM/DC		ORITORING	T	MM/DD/YYY	, -	ł	External O	udan		
	•		50011		/2012	 .,		06/30/2012	<u> </u>					
LUCATION		nan Church Road	FROM	00/01	12012	το	' L	00/30/2012		J	•••	. NO DI	SCHARGE	•••
	Byron, IL 61010													
ATTN: Zoe C	Cox/ENV SPEC													
PAR	AMETER		QUAN	ITITY OR LOADING	<u> </u>	Ĺ	Q	UANTITY OR CON	CENTRATIO	N		NO.	FREQUENCY	SAMPLE
			VALUE	VALUE	UNITS	VALU	E	VALUE	VALUI	E	טאודט	EX	ANALYSIS	TYPE
Solids, total s	suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	•	<0.5	<0.5		19	0	02/30	СР
00530 1 0 Effluent Gros	ss	PERMIT REQUIREMENT	17140	******	*****	*****	•	15 30DA AVG	30 DAILY N	ΔX.	mg/L		Twice Per Month	COMPOS
Flow, in cond treatment pla		SAMPLE MEASUREMENT	0.022	0.023	3	****	•	*****	*****		*****	0	01/01	CN
50050 1 0 Effluent Gros	ss	PERMIT REQUIREMENT	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	MgaVd	*****	•	2007/77	*****		*****		Daily	CONTIN
		SAMPLE												
		MEASUREMENT	 			<u> </u>			 			.	ļ	
		PERMIT REQUIREMENT												
		SAMPLE												
		MEASUREMENT	ļ			<u> </u>		<u> </u>	ļ			<u> </u>	 	
		PERMIT REQUIREMENT					• • •	[}		
		SAMPLE			<u></u>						· · · · · · · · · · · · · · · · · · ·		 	
		MEASUREMENT	ł			ł						ĺ	1 1	
		PERMIT						 	 			 	 	- :
		REQUIREMENT				1	2] <u></u>	-					
		SAMPLE		· · · · · · · · · · · · · · · · · · ·		····								
		MEASUREMENT										ļ		
		PERMIT												
		SAMPLE	-				<u> </u>	 			<u> </u>		 	
		MEASUREMENT	i I						ļ			[! !	
1		PERMIT	l											
		REQUIREMENT	l .			.:	٠.	}			,	l	1	·
	ME/TITLE KECUTIVE OFFICER	I certify under penalty of direction or supervision in						_ ` _		TEL	EPHONE		DATE	
Benjami	n P. Youman	property gather and evaluation manage the system	ute the information sub , or those persons dire	omitted. Based on my in actly responsible for gatl	nquiry of the per nering the infor	son or persons nation, the	1	IGNATURE OF PRI	ACIDI E	815	406-3700		07/23/2012	
Plant	l Manager	information submitted is, aware that there are sign						EXECUTIVE OFFICE		AREA		 		
	OR PRINTED	fine and imprisionment fo			•	,		AUTHORIZED AC		CODE	NUMBER]	MM/DD/YYY	Y
COMMENTS	AND EXPLANAT	TON OF ANY VIOLA	DONS (Reference	all attachments h	em)		-			10000		L		
ĺ		ittali 4 of 30 days duri	•	,	,									

1/6/2012

PAGE 1

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

MITTEE	MARAC	/ADDRESS

NAME Exelon Generation Co., LLC ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, iL 61010

IL0048313	E01-0
PERMIT NUMBER	DISCHARGE NUMBER

[MONI	TORING PERI	QO	
ł	MM/DD/YYYY		MM/DD/YYYY	
FROM	06/01/2012	то	06/30/2012	

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01)

cs

STORMWATER (FORMER 001E)

External Outfall

... NO DISCHARGE

PARAMETER		QUAN	ITITY OR LOADIN	G		QUANTITY OR CONCENTRATION				FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	ANALYSIS	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	******	*****	*****	*****					500	
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	*******	*****	*****	465040	15 30DA AVG	. 30 DAILY MX	mg/L		Weekly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	16.4	17.8	19	0	01/07	GR
00530 8 0 Other Treatment, Process Complete	PERMIT REQUIREMENT	eseppe.	*****	******	******	30 30DA AVG	100 DAILY MX	mg/L		Weekly	GRAB
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01032 1 0 Effluent Gross	PERMIT BEQUIREMENT	*****	******	*****	*****	.1 30DA AVG	.2 DAILY MX	mg/L		Dạily	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01034 1 0 Effluent Gross	PERMIT REQUIREMENT	*****		*****	409218	1 30DA AVG	2 DAILY MX	mg/L		Daily	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01042 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	#2524 0	*****	******	.5 30DA AVG	DAILY MX	mg/L		Daily	GRAB
Iron, total (as Fe)	SAMPLE MEASUREMENT	******	*****	*****	*****	22224				500	
01045 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	****	*****	******	*****	DAILY MX	mg/L	ž.*	Daity	GRAB
Lead, total (as Pb)	SAMPLE MEASUREMENT	•=•••	*****	•••••	•••••					500	
01051 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	******	*****		.2 30DA AVG	.4 DAILY MX	mg/L		Daily	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of I direction or supervision in							TELEPHONE		DATE	- <u>-</u>
Benjamin P. Youman	properly gather and evaluation manage the system, information submitted is,	or those persons dire	ectly responsible for gat	hering the inform	nation, the	SIGNATURE OF PRI		15 406-3700		07/23/2012	
Plant Manager	aware that there are significated is, aware that there are significated imprisionment to	dicant penalties for su	mouse and beam, true, ibmitting false information	on, including the	possibility of	EXECUTIVE OFFICE	ER OR AR	INUMBER	-	MM/DD/YYY	Υ

- 1. There was no discharge of processed steam generator chemical cleaning wastewater during the month.
- 2. Flow existed through this outfall 1 of 30 days during the month.

FPA Form 3320-1	(Rev 01/06)	Previous e	editions may	he used

1/6/2012

PAGE 1

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road

4300 Winfield Road Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byron, iL 61010

DISCHARGE MONIT	FORING REPORT (DMR)
IL0048313	E01-0

DISCHARGE NUMBER

| MONITORING PERIOD | MM/DD/YYYY | MM/DD/YYYY | FROM | 06/01/2012 | TO | 06/30/2012 |

PERMIT NUMBER

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01) CS

STORMWATER (FORMER 001E)

External Outfall

*** NO DISCHARGE ***

PARAMETER	~	QUA	ITITY OR LOADIN	G		QUANTITY OR CON	NO.	FREQUENCY	SAMPLE		
را		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
· .	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
067 1 0 luent Gross	PERMIT REQUIREMENT	*****	RORASIS	040000	699466	30DA AVG	DAILY N	x mg/L		Daily	GRAB
	SAMPLE MEASUREMENT	*****	*****	******	*****					500	
092 1 0 fluent Gross	PERMIT REQUIREMENT	*****	******	200000	989999	1 30DA AVG	2 DAILY M	ox mg/L		Daily	GRAB
	SAMPLE MEASUREMENT	0.262	0.262	3	*****	*****	*****	*****	0	02/30	CN
050 1 0 luent Gross	PERMIT REQUIREMENT	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	Mgal/d	044040	•••••	*****			Twice Per Month	CONTI
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										•
a.	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT		·								
<u>ا</u>	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	·									
<u>_ </u>	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	·.							1		
UNCIPAL EXECUTIVE OFFICER din	enity under penalty of li rection or supervision in	accordance with a sy	ystem designed to assu	re that qualified	personnel	<u> </u>		TELEPHONE		DATE	
Benjamin P. Youman wh	openy gather and evalu- no manage the system, formation submitted is, t	or those persons dire	ctly responsible for gal	hering the inform	ation, the	SIGNATURE OF TRI	MODE INCIPLE	815 406-3700		07/23/2012	
Plant Manager aw	rare that there are signi e and imprisionment for	ficant penalties for su				EXECUTIVE OFFICE		AREA NUMBER		MM/DD/YYYY	<u> </u>

PERMIT	ΓEE	NAM	IE/A	DDF	RESS
--------	-----	-----	------	-----	------

NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FROM

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	001-0
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01) CS

COOLING SYSTEM BLOWDOWN

External Outfall

*** NO DISCHARGE ...

PARAMETER		QUA	NTTY OR LOADIN	G		QUANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	ANALYSIS	TYPE
Temperature, water deg. Fahrenheit	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	101.0	15	0	01/01	CN
00011 1 0 Effluent Gross	PERMIT REQUIREMENT	******	*****	*****	******	******	Req. Mon. MO MAX	deg F		Daily	соили
pH	SAMPLE MEASUREMENT	*****	*****		8.21	*****	8.66	12	0	01/07	GR
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	teters.		6 MINIMUM	225500	9 MAXIMUM	su		Weekty	GRĄB
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	3.3	3.3	19	0	01/30	GR
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	\$#\$ 1 A \$	488944	*****	esses	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	mg/L		Monthly	GRAB
Dil & Grease	SAMPLE MEASUREMENT	*****	*****	*****	*****	<1.4	<1.4	19	0	01/07	GR
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	******	*****	******	15 30DA AVG	20 DAILY MX	mg/L		Weekly	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	******	*****	*****	200000	<0.0021	19	0	01/07	GR
01034 1 0 Effluent Gross	PERMIT	*****	215444	*****	george S	*****	0.2 DAILY MX	ù6∕r		Weekly	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.011	19	0	01/07	GR
01042 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	84.5446	******	******	202200	0.071 DAILY MX	mg/L		Weekty	GRAB
Zinc, total (as Zn)	SAMPLE MEASUREMENT	*****	247070	*****	*****	<0.002	0.0025	19	0	01/07	GR
01092 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*******	-ćere	******	.213 30DA AVG	.433 DAILY MX	mg/L		Weekly	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of la					,		LEPHONE		DATE	****
Benjamin P. Youman	properly gather and evaluate the information submitted. Based on my inquiry of the person or persons partially a system, or those persons directly responsible for gathering the information, the 07/23/2012										
Plant Manager	aware that there are significant penalties for submitting laise information, including the possibility of EXECUTIVE OFFICER OR AREA										
TYPED OR PRINTED fine and imprisionment for knowing violations. AUTHORIZED AGENT AREA NUMBER							*				
COMMENTS AND EXPLANATI Monitoring data for outfall 00			all attachments h	ere) [*]							
PA Form 3320-1 (Rev 01/06) F	Previous aditions may	housed								1/6/2012	PAGE

PERMITTEE NAME/ADDRESS NAME Exelon Generation Co., LLC ADDRESS 4300 Winfield Road Warrenville, IL 60555-5701 FACILITY Byron Nuclear Power Station 4450 North German Church Road

Byron, IL 61010

IL0048313		001-0
PERMIT NUMBER		DISCHARGE NUMBER
MOM	ITORING PER	RIOD
MM/DD/YYYY	ITORING PER	MM/DD/YYYY

DMR Mailing ZIP CODE: 61010
MAJOR
(SUBR 01) CS
COOLING SYSTEM BLOWDOWN

External Outfall

···NO DISCHARGE ...

		QUAN	ITTY OR LOADING	ì		QUANTITY OR CON	CENTRATIO	N		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALU	E	UNITS	EX	OF ANALYSIS	TYPE
Oxidants, total residual	SAMPLE MEASUREMENT	*****	800000	001000	*****	*****	0.03		19	0	01/07	GR
34044 1 0 Effluent Gross	PERMIT REQUIREMENT	89899	444 244	******	******	051715	.05 DAILY		mg/L		Weekly	GRAB
Priority pollutants total effluent	SAMPLE MEASUREMENT	*****			*****	******					500	
50008 1 0 Effluent Gross	PERMIT REQUIREMENT	******	Req. Mon. DAILY MX	lb/d	********	******	Fleq. MX DAILY I		mg/L		Weekly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	21.09	29.39	3	*****	******	*****		******	0	01/01	CN
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	MgaVd	******	spaces	7.37		operate Company		Daily	CONTIN
Chlorine, total residual	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****					500	
50060 1 0 Effluent Gross	PERMIT REQUIREMENT	******	*****	00 9900	******	******	.05 DAILY I		mg/L		Waekly	GRAB
Hydrazine	SAMPLE MEASUREMENT	*****	4++++	*****	******						500	
B1313 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****		*****	.011 30DA AVG	.027 DAILY I		mg/L		Daily When Discharging	GRAB
	SAMPLE MEASUREMENT										—	
<u>.</u>	PERMIT REQUIREMENT			Ve	. Y							
	SAMPLE MEASUREMENT			Ü	_						<u>. </u>	
	PERMIT REQUIREMENT			. 4.				. ,				
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	certify under penalty of					<u> </u>		TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation who manage the system.	rte the information sul or those persons dire	omitted. Based on my in actly responsible for gath	quiry of the per lering the inform	son or persons lation, the	SIGNATURE OF PART	hun-	815	406-3700		07/23/2012	 !
Plant Manager	information submitted is, aware that there are sign	ificant penalties for su				EXECUTIVE OFFICE	ER OR	AREA	NUMBER		MM/DD/YYY	Υ
COMMENTS AND EXPLANATI	fine and imprisionment for ON OF ANY VIOLAT		all attachments h	ere)		AUTHORIZED AC	JENI	CODE	<u> </u>			

PERMITTE	= NAME	ハマンシロロロの

NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byron, IL 61010

PERMIT NUMBER	IL0048313	
	PERMIT NUMBER	

002-0	
DISCHARGE NUMBER	

MONITORING PERIOD								
MM/DD/YYYY		MM/DD/YYYY	_					
06/01/2012	то	06/30/2012						

DMR Mailing ZIP CODE:

MAJOR

(SUBR 01) CS

STORMWATER RUNOFF BASIN

External Outfall

... NO DISCHARGE X

61010

PARAMETER		QUAI	ITTTY OR LOADIN	G		QI	UANTITY OR CON	CENTRATIC	N		NO.	FREQUENCY	SAMPLE
		VALUE	VALUE	UNITS	VALUE		VALUE	VALU	E	UNITS	EX	ANALYSIS	TYPE
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	*****	••••	*****								
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	******	£19144	Apayon			15 30DA AVG	30 DAILY	ΑX	mg/L		Weekly	GRAB
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	*****	•••••	*****								
00530 8 0 Other Treatment, Process Complete	PERMIT REQUIREMENT	******	*****	5,5000	*****		30 30DA AVG	100 DAILY I	ΑX	mg/L		Weekly	GRAB
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	4*****	*****	******	*****								
01032 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	988000	*****	*****	-	.011 30DA AVG	.016 DAILY N	AX	mg/L		Daily	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	*****	919711	******								
01034 1 0 Effluent Gross	PERMIT REQUIREMENT	******	*****	*****	******		1 30DA AVG	2 DAILY N	ΛX	mg/L		Daily	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	*****	*****	*****								
01042 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*43 647	*****	*****		.025 30DA AVG	.041 DAILY N	AX ·	mg/L		Daily	GRAB
iron, total (as Fe)	SAMPLE MEASUREMENT	*****	*****	*****	*****		*****						
01045 1 0 Effluent Gross	PERMIT REQUIREMENT	P00004	******	*****	seette		*****	1 DAILY N	АX	mg/L		Daily	GRAB.
Lead, total (as Pb)	SAMPLE MEASUREMENT	*****	*****	*****	*****								
01051 1 0 Effluent Gross	PERMIT REQUIREMENT	******	211111	*****	007580		.063 30DA AVG	.298 DAILY N	АX	mg/L		Daily	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of la direction or supervision in								TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evalu- who manage the system, information submitted is, t	or those persons dire	ectly responsible for gat	hering the inform	ation, the	SIC	GNAGURE OF KAI	NCIPLE	815	406-3700		07/23/2012	
Plant Manager	aware that there are signi	licant penalties for su					EXECUTIVE OFFIC		AREA	NUMBER		MM/DD/YYY	
TYPED OR PRINTED	fine and imprisionment for	icrowing violations.					AUTHORIZED AC	SENT	CODE	HOMBEN			<u> </u>

- 1. No Turbine Building Fire and Oil Sump or Generic Non-Chemical Metal Cleaning Wastewater was discharged this month.
- 2. No Fire Protection, Service Water or Closed Cooling System Drain Water was discharged this month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

PAGE 1

PERMITTEE NAME/ADDRE	cc

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, II 60555-5701

FROM

FACILITY **Byron Nuclear Power Station** LOCATION 4450 North German Church Road

Byron, IL 61010

DIOUTIAL MOIN	TOTALION (
IL0048313	1

IL0048313	002-0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD						
	MM/DD/YYYY		MM/DD/YYYY			
	06/01/2012	то	06/30/2012			

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01) CS

STORMWATER RUNOFF BASIN

External Outfall

*** NO DISCHARGE X

ATTN: Zoe Cox/ENV SPEC FREQUENCY QUANTITY OR LOADING **QUANTITY OR CONCENTRATION** NO. SAMPLE **PARAMETER** OF EX TYPE UNITS VALUE VALUE UNITS VALUE VALUE VALUE **ANALYSIS** Nickel, total SAMPLE (as Ni) MEASUREMENT 0106710 PERMIT .011 .176 ***** ***** mg/L Daily GRAB Effluent Gross REQUIREMENT 30DA AVG DAILY MX Zinc, total SAMPLE ***** ***** (as Zn) MEASUREMENT 01092 1 0 PERMIT .047 .26 **** ***** ***** **** ma/L Daily GRAB Effluent Gross REQUIREMENT 30DA AVG DAILY MX SAMPLE Oil and Grease ***** ***** ***** MEASUREMENT 03582 1 0 PERMIT 15 20 When -***** GRAB mg/L Effluent Gross REQUIREMENT 30DA AVG DAILY MX Discharging. Flow, in conduit or thru SAMPLE ***** ***** treatment plant MEASUREMENT 50050 1 0 Reg. Mon. PERMIT Req. Mon. When MgaVd ***** **ESTIMA** Effluent Gross REQUIREMENT 30DA AVG DAILY MX Discharging SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT NAME/TITLE I certify under penalty of law that this document and all attachments were prepared under my TELEPHONE DATE PRINCIPAL EXECUTIVE OFFICER direction or supervision in accordance with a system designed to assure that qualified personnel SIGNATURE OF PRINCIPLE properly gather and evalute the information submitted. Based on my inquiry of the person or persons 406-3700 815 Benjamin P. Youman who manage the system, or those persons directly responsible for gathering the information, the 07/23/2012 information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am Plant Manager aware that there are significant penalties for submitting false information, including the possibility of EXECUTIVE OFFICER OR AREA NUMBER MM/DD/YYYY fine and imprisionment for knowing violations. TYPED OR PRINTED **AUTHORIZED AGENT** CODE COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) 1. This discharge point was not used this month. 2. There was no discharge of processed steam generator chemical cleaning wastewater during the month. EPA Form 3320-1 (Rev 01/06) Previous editions may be used. 1/6/2012 PAGE 2

For Exelon Byron Station Permit IL0048313 June 2012 Page 1 of 3

MONITORING DATA:

MONTORING	CWBD	OWDD EL	Rock River
DATE	Temperature	CWBD Flow	Flow
	deg F	mgd	cfs
06/01/2012	85.8	23.50	5,060
06/02/2012	86.8	29.39	5,090
06/03/2012	93.9	15.58	4,790
06/04/2012	93.9	5.58	4,540
06/05/2012	87.0	0	4,310
06/06/2012	88.2	0.201	4,190
06/07/2012	93.0	13.78	3,880
06/08/2012	99.6	22.64	3,740
06/09/2012	96.4	28.23	3,560
06/10/2012	97.0	22.35	3,070
06/11/2012	95.5	16.75	2,830
06/12/2012	95.3	24.58	2,680
06/13/2012	89.4	20.26	2,790
06/14/2012	92.1	22.56	2,740
06/15/2012	92.1	24.85	2,630
06/16/2012	97.0	25.63	2,710
06/17/2012	97.0	24.49	2,690
06/18/2012	98.7	16.35	2,750
06/19/2012	99.6	21.98	2,590
06/20/2012	99.1	21.26	2,510
06/21/2012	98.4	25.22	2,470
06/22/2012	96.2	20.56	2,320
06/23/2012	98.4	26.56	2,330
06/24/2012	98.4	23.64	2,350
06/25/2012	95.1	17.34	2,240
06/26/2012	93.3	23.75	2,250
06/27/2012	92.3	20.54	2,280
06/28/2012	101.0	22.39	2,200
06/29/2012	99.5	23.16	2,120
06/30/2012	98.7	28.61	2,120

For Exelon Byron Station Permit IL0048313 June 2012 Page 2 of 3

HYDRAZINE MONITORING:

There were no steam generator chemical cleaning solutions (or associated rinses) containing hydrazine discharged to the Cooling System Blowdown during the month of June 2012.

TOTAL QUANTITY DISCHARGED: N/A

TOTAL DURATION OF DISCHARGE: N/A

COMMENTS:

- 1. Sodium Hypochlorite and Bromine compounds were used this month.
- 2. There was no discharge of steam generator chemical cleaning wastewater containing hydrazine in this month.
- 3. Flow existed through this outfall 29 of 30 days.
- 4. Per Special Condition 24 the influent from the Rock River and effluent from Outfall 001-0 was monitored for Total Suspended Solids (TSS) this month. The Rock River TSS value was 34.4 mg/L on 06/11/2012. The CWBD TSS value was 3.25 mg/L on 06/11/2012.
- 5. Rock River flow was <2400 cfs in June 2012 therefore daily temperature calculations were required during that time period. (Special Condition 12).
- 6. There was no discharge of the 126 Priority Pollutants from cooling tower maintenance chemicals in June 2012. (Special Condition 15).

For Exelon Byron Station Permit IL0048313 June 2012 Page 3 of 3

Per Special Condition 12, in the event the Rock River flow is <2,400 cfs, daily calculations will be undertaken to demonstrate compliance with the water quality standard. The calculations are based on hourly measurements, averaged over a 24-hour calendar day for Rock River flow, main Rock River temperature, CW Blowdown flow, and CW Blowdown temperature values. Results of the calculations shall be reported in the DMR on a monthly basis.

Calculation results are in the following table:

Date	Average	Average	Average	Average	Calculated	Water
	Rock	CW M/U	CW	CW	Temperature	Quality
1	River	Temperature	Blowdown	Blowdown	at edge of	Standard
	Flow	(F)	Flow	Temperature	mixing zone	Temperature
	(cfs)		(gpm)	(F)	(F)	(F)
6/22/12	2286	75.6	16060	94.3	76.3	90
6/23/12	2325	75.2	16076	93.9	75.9	90
6/24/12	2353	75	16105	95	76	90
6/25/12	2248	75	15985	92	75.9	90
6/26/12	2250	73	15883	93	74	90
6/27/12	2290	74	15942	95	75.2	90
6/28/12	2210	77	16037	101	77.6	90
6/29/12	2112	77	16035	96	77.8	90
6/30/12	2119	76	16083	97	77.3	90



Exelon Generation Company, LLC Byron Station 4450 North German Church Road Byron, IL 61010-9794

www.exeloncorp.com

Nuclear

August 24, 2012

LTR: BYRON 2012-0094

File: 2.09.0411

1.10.0101

Illinois Environmental Protection Agency Water Pollution Control Compliance Assurance Section #19 1021 North Grand Avenue East P.O. Box 19276 Springfield, IL 62794-9276

Subject: Byron Station Monthly Discharge Monitoring Report

In accordance with National Pollutant Discharge Elimination System (NPDES) Permit Number IL0048313, issued January 24, 2011, we are submitting the Discharge Monitoring Report for Byron Station, Units 1 and 2. This report covers the period of July 1, 2012 through July 31, 2012.

On 7/4/2012 and 7/8/2012 the U2 Natural Draft Cooling Tower (NDCT) basin overflowed as a result of plugging of the outfall screens caused by cooling tower fill pack debris. Operations took immediate corrective actions to lower the level in the flume and basin to stop the overflow condition. Additionally maintenance personnel were called in the clean the debris from the outfall screens. The cooling tower basin overflow water flowed north in the storm water ditch and entered Woodland Creek via storm water Outfall 003, East Station Area Runoff. The estimated duration of the first overflow event is 5.2 hours at a flow rate of approximately 20 gallons per minute resulting in an estimated 6,180 gallons of cooling tower water flowing through Outfall 003. Analysis results of a sample of the cooling tower water obtained prior to entrance into the storm water ditch are summarized in the following table:

pH	Copper (mg/L)	Zinc (mg/L)	Chromium
			(mg/L)
8.69	0.010	0.016	<0.0021

The estimated duration of the second event is 3.0 hours at a flow rate of approximately 50 gallons per minute resulting in an estimated 9,000 gallons of cooling tower water flowing through Outfall 003. Analysis results of a sample of the cooling tower water obtained prior to entrance into the storm water ditch are summarized in the following table:

pH	Copper (mg/L)	Zinc (mg/L)	Chromium
			(mg/L)
8.63	0.007	0.008	<0.0021

August 24, 2012 Byron Letter 2012-0094 Page 2

Byron Station continues to closely monitor NDCT debris fence delta levels and replacement of cooling tower fill is being planned. Unit 1 NDCT fill replacement is scheduled to begin September 2012. It is expected that the changes to the tower fill should prevent future tower overflow events.

If there are any questions regarding this report, please contact Ms. Zoe Cox, Environmental/Radwaste Supervisor, at (815) 406-3035.

Respectfully,

Benjamin P. Youman

Plant Manager

Byron Nuclear Generating Station

BPY/ZC/eh Attachments

J. Gould – Environmental – Cantera (electronic) Z. Cox – Chemistry – Byron bcc:

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	A01-0
PERMIT NUMBER	DISCHARGE NUMBER

	MONITORING PERIOD								
	MM/DD/YYYY		MM/DD/YYYY						
FROM	07/01/2012	TO	07/31/2012						

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01) CS

DEMINERALIZER REGENERATE WASTE (001A)

External Outfall

*** NO DISCHARGE

		QUAN	ITITY OR LOADING	G	0	UANTITY OR CON	CENTRATION	N		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE		UNITS	EX	OF ANALYSIS	TYPE
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	<1.1	<1.2		19	0	01/30	08
00530 1 0 Effluent Gross	REQUIREMENT					15 30DA AVG.	30 DALYM	X	mo/L		Monthly	COMP
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	*****	94224	44444	*****						500	
01032 1 0 Effluent Gross	PERMIT					SODAAVO	DAILYM	X.i.i.	TOL:	51	Daily	GRAB
Chromium, total as Cr)	SAMPLE MEASUREMENT	*****	******	******	*****						500	
01034 1 0 Effluent Gross	REQUIREMENT	À				30DA AVG	DAILYM	χ.,.	mg/L 2		Daily	GRAB
Copper, total as Cu)	SAMPLE MEASUREMENT	*****	*****	******	941919						500	
01042 1 0 Effluent Gross	BESTILLEMENT					300A AVG	DALYM	X	COAL!	, ý	Paily	GRAB
ron, total as Fe)	SAMPLE MEASUREMENT	******	*****	******	*****	******					500	
01045 1 0 Effluent Gross	PERMIT			(Perf		A promp	A DAILYM	X.	mo/L		Daily	GRAB
ead, Total as Pb)	SAMPLE MEASUREMENT	*****	*****	*****	*****						500	
01051 1 0 Effluent Gross	REQUIREMENT.					30DA AVG	DAILYM	XS	. Jon	2111	Daily	GRAB
vickel, total as Ni)	SAMPLE MEASUREMENT	*****	*****	*****	*****						500	
01067 1 0 Effluent Gross	REPURENENT.				3. 11	30PA AVG	DAILYM	X.c.	moA	100	Daily	GRAB
	I certify under penalty of direction or supervision to	accordance with a sy	stem designed to assu	re that qualified	personnel	_	}	TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation who manage the system, information submitted is.	or those persons dire	ctly responsible for gatt	hering the inform	nation, the	GNATURE OF PRI		815	406-3700		08/24/2012	:
Plant Manager	information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I are aware that there are significant penalties for submitting talse information, including the possibility of line and imprisionment for knowing violations.					EXECUTIVE OFFICER OR		AREA CODE	NUMBER	MM/DD/YYYY		γ
COMMENTS AND EXPLANAT	ON OF ANY VIOLAT	TIONS (Reference	all attachments h	ere)				<u> </u>				
. There was no discharge of p P. Flow existed 31 of 31 days d	rocessed steam gen				onth.							
								_				

PERM	AITTEE	NAME	ADDE	ESS

NAME Exelon Generation Co., LLC 4300 Winfield Road ADDRESS

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road FROM

IL0048313	A01-0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD MM/DD/YYYY MM/DD/YYYY 07/01/2012 TO 07/31/2012

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01)

DEMINERALIZER REGENERATE WASTE (001A)

CS

External Outfall

... NO DISCHARGE

21092 1 0 Effluent Gross How, in conduit or thru reatment plant 50050 1 0	EMENT PLE EMENT FILE EMENT FILE EMENT FILE EMENT FILE FI	0.057 Req. Mgn	0.243 Fig. Mon.	3 Mosks	VALUE	VALUE	VALUE		UNITS	EX	OF ANALYSIS 500	TYPE GPARI
As Zn) D1092 1 0 Effluent Gross Flow, in conduit or thru reatment plant 50050 1 0 Effluent Gross AEPULE SAM MEASUF MEASUF	EMENT PLE EMENT FILE EMENT FILE EMENT FILE EMENT FILE FI	0.057	0.243	3				vit			500 Daily	GRAD
Effluent Gross Flow, in conduit or thru reatment plant 50050 1 0 Effluent Gross AMMEASUF BEAUTH AMMEASUF AMMEASUF AMMEASUF AMMEASUF AMMEASUF AMMEASUF AMMEASUF AMMEASUF AMMEASUF AMMEASUF AMMEASUF AMMEASUF AMMEASUF AMMEASUF	PLE EMENT STATEMENT .057	0.243	<u> </u>				x 🏂			CAPPAN T	GPAB	
Flow, in conduit or thru reatment plant MEASUF FREE SAM MEASUF SAM	PLE EMENT EMENT PLE EMENT WIT PLE EMENT PLE EMENT	0.057	Reg Mon &	<u> </u>	******				*****			
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			nt and all attachments w ystem designed to assu					TELI	EPHONE		DATE	
Property gath Benjamin P. Youman who manage	er and evalute the the system, or the	e information sub nose persons dire	bmitted. Based on my is actly responsible for gat wledge and belief, true,	inquiry of the per thering the inform	rson or persons mation, the	SIGNATURE OF PRI	NCIPLE	815	406-3700		08/24/2012	
Plant Manager aware that th		nt penalties for su	bmitting talse information			EXECUTIVE OFFIC		AREA	NUMBER		MM/DD/YYY	Y
COMMENTS AND EXPLANATION OF AN	AOITA JOIV V	IS (Reference	all attachments b	nore)		AUTHORIZED AG	ENI	CODE				

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FROM

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	801-0
PERMIT NUMBER	DISCHARGE NUMBER

MONITO	RING	PERIOD
MM/DD/YYYY		MM/DD/YYYY
07/01/2012	TO	07/31/2012

DMR Mailing ZIP CODE:

MAJOR

(SUBR 01)

61010

STP PLANT EFFLUENT (FORMER 001B)

CS

External Outfall

*** NO DISCHARGE ...

PARAMETER		QUAI	NTITY OR LOADIN	G	QUANTITY OR CONCENTRATION						NO.	FREQUENCY	SAMPLE
		VALUE	VALUE	импъ	VALUE		VALUE	VALUE		UNITS	EX	OF ANALYSIS	TYPE
3OD, 5-Day (20 Deg. C)	SAMPLE MEASUREMENT	0.38	0.45	26	*****		7.5	9.0		19	0	02/30	24
00310 1 0 Effluent Gross	REQUIREMENT.	6.3 CODA AVG	10.5 DAILYMX	A MILE			30 - 30DA AVG	EQ.	Ø.	mg4		Twice fler Mooth	COMES
рН	SAMPLE MEASUREMENT	*****	*****	*****	7.50		*****	7.53		12	0	02/30	GR
00400 1 0 Effluent Gross	BEORIBENENT		A TOP A	1	6 MINIMUM		BANK	MAXIM		√.su.		Twice Perisons	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	0.08	0.12	26	*****	T	<1.3	2.4		19	0	02/30	24
00530 1 0 Effluent Gross	BEQUIREMENT	6.3 30DA AVG	DAILY MX	104	A SHIP		30 30DA AVG	2 60 Z DAILY	X;	mg/L		Twice Res Month	-COMP24
Flow, in conduit or thru reatment plant	SAMPLE MEASUREMENT	0.005	0.009	3	*****		*****	41500		*****	0	01/01	CN
50050 1 0 Effluent Gross	REQUIREMENT	Req. Mon.	Req. Mon.	Mark.	The street			O Hill				Dally s	CONTIN
	SAMPLE MEASUREMENT												
	BEQUIREMENT.			7.77		4.6							
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT	NI F	W	477.49							XX	100	
	SAMPLE MEASUREMENT												
·	PERMIT"	1											
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision in	law that this document accordance with a s	t and all attachments w ystem designed to assu	ere prepared un	der my personnel				TE	LEPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation who manage the system.	ite the information sub or those persons dire	omitted. Based on my in actly responsible for gati	nquiry of the per hering the inform	son or persons	SIG	NATURE OF BRIL	ACIDI E	815	406-3700		08/24/2012	
Plant Manager	information submitted is, aware that there are sign fine and imprisionment to	ificant penalties for su	medge and belier, true, ibmitting talse informatio	accurate, and c on, including the	possibility of		ECUTIVE OFFIC		AREA	NUMBER		MM/DD/YYY	
TYPED OR PRINTED							AUTHORIZED AG	ENT	CODE				
COMMENTS AND EXPLANATI Flow existed through this out			all attachments h	161 6)									
EPA Form 3320-1 (Rev 01/0	YE\ Desvieus aditions												

PERMITTI	FF NAM	E/ADDI:	RESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

IL0048313	C01-0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD MM/DD/YYYY MM/DD/YYYY 07/31/2012 07/01/2012 FROM

DMR Mailing ZIP CODE:

MAJOR

(SUBR 01)

CS

WWTP (FORMER 001C)

External Outfall

*** NO DISCHARGE

61010

Byron, IL 61010 ATTN: Zoe Cox/ENV SPEC FREQUENCY QUANTITY OR CONCENTRATION QUANTITY OR LOADING NO. SAMPLE PARAMETER TYPE EX VALUE VALUE **VALUE** UNITS VALUE UNITS VALUE **ANALYSIS** SAMPLE 7.2 19 02/30 24 Solids, total suspended 4.3 0 MEASUREMENT PERMIT 00530 1 0 15 DAILY MOX Twice Ber Month Effluent Gross REQUIREMENT Chromium, hexavalent SAMPLE 500 (as Cr) MEASUREMENT PERMIT 01032 1 0 GRAB. Effluent Gross Chromium, total SAMPLE 500 (as Cr) MEASUREMENT 5 / 2 / 3 01034 1 0 * PERMIT 15 DAU WARY 30DA AVG REQUIREMENT Effluent Gross Copper, total SAMPLE 500 (as Cu) MEASUREMENT 01042 1 0 PERMIT Effluent Gross RECUIBEMENT. Iron, total SAMPLE 500 (as Fe) MEASUREMENT 01045 1 0 BERMIT Effluent Gross REQUIREMENT Lead, total SAMPLE 500 (as Pb) MEASUREMENT 01051 1 0 PERMIT Effluent Gross BECUBENENT Nickel, total SAMPLE 500 (as Ni) MEASUREMENT 01067 1 0 RERMIT Effluent Gross NAME/TITLE certify under penalty of law that this document and all attachments were prepared under my TELEPHONE DATE PRINCIPAL EXECUTIVE OFFICER direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evalute the information submitted. Based on my inquiry of the person or persons 815 406-3700 Benjamin P. Youman 08/24/2012 who manage the system, or those persons directly responsible for gathering the information, the SIGNATURE OF PRINCIPLE information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am Plant Manager aware that there are significant penalties for submitting false information, including the possibility of **EXECUTIVE OFFICER OR** AREA NUMBER MM/DD/YYYY fine and imprisionment for knowing violations. TYPED OR PRINTED **AUTHORIZED AGENT** CODE

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- 1. There was no discharge of processed steam generator chemical cleaning wastewater during this month.
- 2. Flow existed through this outfall 25 of 31 days during the month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

PAGE 1

MONITORING PERIOD

то

PERMIT NUMBER

MM/DD/YYYY

07/01/2012

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC IL0048313

FROM

C01-0 DISCHARGE NUMBER

MW/DD/YYYY

07/31/2012

DMR Mailing ZIP CODE:

61010

MAJOR (SUBR 01)

CS

WWTP (FORMER 001C)

WWTP (FORMER 001C) External Outfall

*** NO DISCHARGE ...

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Warrenville, IL 60555-5701

ADDRESS 4300 Winfield Road

Byron, IL. 61010

PARAMETER		AUQ	NTITY OR LOADIN	G	QUANTITY OR CONCENTRATION						FREQUENCY	SAMPLE
PARAMETER		VALUE VALUE U		UNITS	VALUE	VALUE	VALUE		UNITS	EX	ANALYSIS	TYPE
Zinc, total (as Zn)	SAMPLE MEASUREMENT	*****	*****	*****	*****						500	
01092 1 0 Effluent Gross	REQUIREMENT.			*****		30DA AVG	DAILY	VOX.	/ mo/- 3	4	Daily	↑ GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.015	0.031	3	*****	*****	****	,	405500	0	01/01	CN
50050 1 0 Effluent Gross	REPUBLICATION OF THE SAMPLE	Req. Mon.	Fleq. Mon.	ModVd		1000			W.		Daily 137	CONTIN
···········	MEASUREMENT BERNITE BEQUIREMENT			- 1 C. C.				in.				
	SAMPLE MEASUREMENT ************************************								ie sve			
	SAMPLE MEASUREMENT											
	BEQUIREMENT. SAMPLE MEASUREMENT											
	REQUIREMENT. SAMPLE			-00 A							Asses Services	
	MEASUREMENT PERMIT			40.43					to de			10.00
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision i		nt and all attachments w					TE	EPHONE		DATE	Control of the Contro
Benjamin P. Youman	properly gather and evaluation manage the system information submitted is,	ute the information su , or those persons dir to the best of my kno	bmitted. Based on my i rectly responsible for gat weedge and belief, true,	inquiry of the per thering the informaccurate, and o	rson or persons mation, the somplete. I am	IGNATURE OF THE		815	406-3700		08/24/2012	
Plant Manager	aware that there are sign	nificant penalties for so or knowing violations.		on, including the	possibility of	EXECUTIVE OFFICE AUTHORIZED AC		AREA	NUMBER		MM/DD/YYY	Υ

VALUE

	NAME/ADDS	

NAME

Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

ATTN: Zoe Cox/ENV SPEC

Solids, total suspended

Flow, in conduit or thru

PARAMETER

Warrenville, IL 60555-5701

FACILITY

00530 1 0

Effluent Gross

treatment plant

50050 1 0

Effluent Gross

Byron Nuclear Power Station **LOCATION** 4450 North German Church Road

SAMPLE

MEASUREMENT REPAIR

DECUBENELL

SAMPLE

MEASUREMENT

PERMIT

REQUIREMENT SAMPLE MEASUREMENT

BERMIT SAMPLE MEASUREMENT

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

Byron, IL 61010

_	IL0048313
	PERMIT NUMBER

MM/DD/YYYY

07/01/2012

UNITS

3

FROM

VALUE

0.023

Reg. Mon-

QUANTITY OR LOADING

VALUE

0.024

Reg. Mon...

	D01-	<u> </u>	
DISC	CHARGE	NUMBER	
 			•

QUANTITY OR CONCENTRATION

VALUE

<0.5

30 DAILMAX

VALUE

<0.5

\$ 15 cm

MONITO	RING	PERIOD
		MM/DD/YYYY
	то	07/31/2012

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01)

RADWASTE TREATMENT (FORMER 001D)

CS

External Outlail

*** NO DISCHARGE

FREQUENCY NO. SAMPLE OF EX TYPE UNITS ANALYSIS 02/30 CP 19 01/01 CN

1/6/2012

PAGE 1

TYPED OR PRINTED COMMENTS AND EXPLANAT	fine and imprisionment to						UTHORIZ	ED AG	ENT	CODE	104101	<u>'</u>			·
	aware that there are sign	nificant penalties for s	ubmitting false informat				ECUTIVE (OFFIC	ER OR	AREA	NUMBER		MM/		<u> </u>
Benjamin P. Youman	properly gather and eval who manage the system information submitted is,	ı, or those persons dir	rectly responsible for ga	thering the infor	mation, the	- 34	NATURE O	FARI	NCIPLE	815	406-3700		08/	24/2012	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision i	in accordance with a s	system designed to ass	ure that qualified	1 personnel					TEL	EPHONE			DATE	
	BEQUIREMENT	30.71		10.75	e l'aire		-0.7							N S	444
	SAMPLE MEASUREMENT														
	BERUIT			1		*			***		196				
	SAMPLE MEASUREMENT														
	REQUIREMENT				Mar.								2.0		
	SAMPLE MEASUREMENT														
	BEQUISENENT.			100					11.73	3.7	31	13	7		10
	MEASUREMENT											_	L		

DISCHARGE MONITORING REPORT (DMR)

2	 	TEE	BIA	A AKE I	A In	no	ESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byran, IL 61010

IL0048313	}
PERMIT NUMBER	l

FROM

E01-0	
DISCHARGE NUMBE	R

MONITORING PERIOD										
MM/DD/YYYY		MM/DD/YYYY								
07/01/2012	то	07/31/2012								

DMR Mailing ZIP CODE: MAJOR

CS

61010

(SUBR 01)

STORMWATER (FORMER 001E)

External Outfail

*** NO DISCHARGE

		AUD	NTITY OR LOADING	G .	a	UANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	ANALYSIS	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	****	*****	******	*****	8.1	8.2	19	0	01/07	GR
00530 1 0 Effluent Gross	PERMIT			177		15 30DA AVG	DAILX WX	mod		Weeky	`? GRAB-
Solids, total suspended	SAMPLE MEASUREMENT	*****	242240	00000	905444					500	
00530 8 0 Other Treatment, Process Complete	BERMIT					30 300 A AVS	PAIL CAX	A mod		Weekly	A GRAB
Chromium, hexavalent as Cr)	SAMPLE MEASUREMENT	400010	*****	*****	*****					500	
01032 1 0 Effluent Gross	BEOUBENEAU	A. 1999	AL APPROVE	1775	A STATE OF	30DA AVG	PAILYMX	mo/l		Dally To	GRAD
Chromium, total as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01034 1 0 Effluent Gross	REPUBLICA	X TELL			Sie Paris	30DA AVG	DAILY-MX	3,mg4_	Å.	Dally	GRAB
Copper, total as Cu)	SAMPLE MEASUREMENT	*****	*****	*****	000000					500	
01042 1 0 Effluent Gross	REPUIREMENTS.	William C.	No.	200		20DAAVG	SEDAUSEMS	1.094		SA Pally	SEAR
ron, total as Fe)	SAMPLE MEASUREMENT	*****	*****	*****	******	400140				500	ļ
01045 1 0 Effluent Gross	REPUIREMENT.	and a	11.77				3 DAILY MX			Poly	GPAR
ead, total as Pb)	SAMPLE MEASUREMENT	*****	*****	******	******	0.2.3.3.		43	43.8 °.	500	12.7
01051 1 0 Effluent Gross	REQUIREMENT	9. 79.	276			30DA AVQ	DAILY MX	* mod * *	1	THE STATE OF THE S	GRAB
	i certify under penalty of direction or supervision is	n accordance with a s	ystem designed to assu	ine that qualified	personnel	- O.	1	ELEPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system information submitted is,	, or those persons dir	ectly responsible for gat	thering the infor	nation, the	IGNATURE OF PRI	INCIPLE 81	5 406-3700		08/24/2012	?
	aware that there are significant penalties for submitting take information, including the possibility of fine and imprisionment for knowing violations. EXECUTIVE OFFICER OR AREA NUMBER MM/DD/YYY								N		

- 1. There was no discharge of processed steam generator chemical cleaning wastewater during the month.
- 2. Flow existed through this outfall 4 of 31 days during the month.

i	DERL	ATTER	NAME	DRESS

NAME Exelon Generation Co., LLC **ADDRESS** 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY

Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	E01-0
PERMIT NUMBER	DISCHARGE NUMBER

	MONITO	RING	PERIOD
	MM/DD/YYYY		MM/DD/YYYY
OM	07/01/2012	то	07/31/2012
		,	

DMR Mailing ZIP CODE:

(SUBR 01)

MAJOR

CS

STORMWATER (FORMER 001E)

External Outfall

*** NO DISCHARGE

61010

D. O. A. A. D		QUANTITY OF LOADING			-	NUANTITY OR CON	NO.	FREQUENCY	SAMPLE		
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNI	rs Ex	ANALYSIS	TYPE
Nickel, total as Ni)	SAMPLE MEASUREMENT	*****	40000	*****	99984					500	
01067 1 0 Effluent Gross	REQUIREMENT	3 W 3				SODA AVG	PAILY M	, mo		Dely	GRAB
inc, total as Zn)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01092 1 0 Effluent Gross	REQUIREMENT					30DA AVG	PAILXM	ing.	13 1	Daily P	CRAR
Flow, in conduit or thru reatment plant	SAMPLE MEASUREMENT	0.278	0.562	3	424774	40000	*****	***	•• o	02/30	CN
60050 1 0 Effluent Gross	REPAIL	Req Mop.	Reg. Mon.	Monkey	2 300	A PROPERTY.				Twice Per Month	CONTIN
	SAMPLE MEASUREMENT										
	REQUIREMENT	SELVES	14 6 14	7.5							
	SAMPLE MEASUREMENT										
	REQUIREMENT	TANK TANK	1170-21	2.1			A V Z				
	SAMPLE MEASUREMENT										
	REPUIT			KARA		AUGUST AND AND AND AND AND AND AND AND AND AND	A CONTRACT		6.		
	SAMPLE MEASUREMENT					, , , , , , , , , , , , , , , , , , , ,					
	REQUIREMENT										111
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision i					_		TELEPHO	NE	DATE	
Benjamin P. Youman	properly gather and evaluation manage the system information submitted is,	ute the information su , or those persons dir	bmitted. Based on my is actly responsible for gat	nquiry of the per hering the inform	rson or persons nation, the	IGNATURE OF PRI		815 406-3	700	08/24/2012	:
Plant Manager	aware that there are sign fine and imprisionment to	nificant penalties for s				EXECUTIVE OFFICE	ER OR	AREA NUMI	BER	MM/DD/YYYY	

- 1. No Generic Non-Chemical Metal Cleaning wastewater was discharged this month.
- 2. No Fire Protection drain water was discharged this month.
- 3. Turbine Building Fire and Oil Sump wastewater was discharged this month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

PAGE 2

PERMITTEE	NAME/	ADDRESS
NAME	Exelon	Generation

n Co., LLC ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	001-0
PERMIT NUMBER	DISCHARGE NUMBER
	

	MONITORING PERIOD											
	MM/DD/YYYY		MM/DD/YYYY									
FROM	07/01/2012	TO	07/31/2012									

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01)

COOLING SYSTEM BLOWDOWN

CS

External Outfall

··· NO DISCHARGE

GADAMEYED		QUA	NTITY OR LOADING	G		QUANTITY OR CON	CENTRATIO	N		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALU	E	UNITS	EX	ANALYSIS	TYPE
Temperature, water deg. Fahrenheit	SAMPLE MEASUREMENT	*****	*****	*****	******	*****	103.0		15	0	01/01	CN
00011 1 0 Effluent Gross	PERMIT		of September 1995	4 11112		* # 1 WORK * 1	Pag Mc	n.	deg 5	1.60	Daly Co	CONTIN
pH	SAMPLE MEASUREMENT	******	enteen	*****	8.28	******	8.73	A / 1 /	12	0	01/07	GR
00400 1 0 Effluent Gross	PERMIT	de const	(STATE	S MANIMAN	77.5	MAXIMI	M	su su		Weekly	GBAB
Solids, total suspended	SAMPLE MEASUREMENT	05000	000000	*****	*****	3.0	3.0		19	0	01/30	GR
00530 1 0 Effluent Gross	DEBMIE 4	and the same of	A sec	1,774		Req. Mon	Req. M	n.	mod	isota.	Monthly	GRAB
Oil & Grease	SAMPLE MEASUREMENT	*****	*****	*****	498444	<1.4	<1.4		19	0	01/07	GR
00556 1 0 Effluent Gross	PERMIT'S	2000	****	1		15 300A AVG	20 DAILY I	OX	mg/L		Weeldy	GRAB.
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	45000	******	<0.002	1	19	0	01/07	GR
01034 1 0 Effluent Gross	PERMIT	Manager Pi	er spring		1	4. 200	DAII XI	(X.a.:	mo/L	્રિક્	Weekty	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.012	3	19	٥	01/07	GR
01042 1 0 Effluent Gross	BEOUIREMENT	and a		Tours.		September 1	0.071 DAILY A	ıχ.	100/		Weekly	GRAB.
Zinc, total (as Zn)	SAMPLE MEASUREMENT	*****	*****	*****	099000	<0.0027	0.0042		19	0	01/07	GR
01092 1 0 Effluent Gross	PERMIP RECHIREMENT					213 300A AVG	A33	IX.	mpd		Yeary	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision in							TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system, information submitted is,	ute the information sui , or those persons dire	son or persons	GIGNATURE OF PRI	NCIPLE	815	406-3700		08/24/2012			
Plant Manager	aware that there are sign fine and imprisionment fo	ificam penalties for su				EXECUTIVE OFFICE		AREA	NUMBER		MM/DD/YYY	
TYPED OR PRINTED	<u> </u>					AUTHORIZED AC	BENT	CODE		L		•
COMMENTS AND EXPLANATO 1. Monitoring data for outfall 00		•	e all attachments h	ere)			-		-			
EPA Form 3320-1 (Rev 01/06)	Provious aditions ma	w bo wood				·····					1/6/2012	PAG

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NAME Exelon Generation Co., LLC ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	001-0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

MM/DD/YYYY

FROM 07/01/2012 TO 07/31/2012

DMR Mailing ZIP CODE:

61010

MAJOR (SUBR 01)

CS

COOLING SYSTEM BLOWDOWN

External Outfall

*** NO DISCHARGE

	$\overline{}$	QUA	QUANTITY OR LOADING			CENTRATIO	NTRATION			FREQUENCY	SAMPLE	
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUI	E	UNITS	NO. EX	OF ANALYSIS	TYPE
Oxidants, total residual	SAMPLE MEASUREMENT	*****	******	******	*****	*****	0.04		19	0	01/07	GR
34044 1 0 Effluent Gross	REPUIT		A Project	· varie	THE REAL PROPERTY.		DAILY A	X.	794	2.37	" Weekly	GRAB
Priority pollutants total effluent	SAMPLE MEASUREMENT				*****	*****					500	
50008 1 0 Effluent Gross	*REQUIREMENT	1	Req. Mon.	THE STATE OF	THE PERSON NAMED IN		PARY	n. OX. z	mod s	1	Weekly *	GRAD.
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	20.99	29.27	3	*****	*****	*****		*****	0	01/01	CN
50050 1 0 Effluent Gross	RECUIBENEME	Reg. Mon.	Pag Mon	Moaktit		and a	in Lyang		Trainer.	114	Cally () -	CONTIN
Chlorine, total residual	SAMPLE MEASUREMENT	*****	******	200201	510000	*****					500	
50060 1 0 Effluent Gross	PERMIT	4	(A) WITH	- 1986	T. WWW.	C. 1882	DAIL VA	OS.	0 mod 2		* Wookly	GRAB
Hydrazine	SAMPLE MEASUREMENT	*****	*****	*****	******						500	
B1313 1 0 Effluent Gross	BEOLIBENEN	Carry 12	- many	i divisi	Agree 1	30DA AVG	DAILY N	α	mod.		Daily When A	- GRAB
	SAMPLE MEASUREMENT											
	BEOTIBENEAL	A STATE OF										
	SAMPLE MEASUREMENT											
	REQUIREMENT											
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	certify under penalty of direction or supervision in	n accordance with a si	ystem designed to assu	re that cualified	personnel	_		TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evalu who manage the system,	ite the information sub , or those persons dire	omitted. Based on my ir actly responsible for gath	rquiry of the per rering the inform	rson or persons nation, the	GNATURE OF PRINCIPLE			406-3700		08/24/2012	
TYPED OR PRINTED	information submitted is, aware that there are sign line and imprisionment to	ificant penalties for su or knowing violations.	ibmitting false information	on, including the	Dispersion 1 and 1			AREA NUMBER		MM/DD/YYYY		
OMMENTS AND EXPLANATI	ON OF ANY VIOLAT	ΠΟΝS (Reference	all attachments h	(ere)								
PA Fórm 3320-1 (Rev 01/06) F												

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313									
	PERMIT NUMBER								

FROM

002-0	
DISCHARGE NUMBER	

MONITORING PERIOD MM/DD/YYYY MM/DD/YYYY 07/01/2012 07/31/2012 TO

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01)

STORMWATER RUNOFF BASIN

CS

External Outfall

··· NO DISCHARGE

DADAMETED		QUANTITY OR LOADING				QUANTITY OR CONCENTRATION					FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALU	E	UNITS	EX	OF ANALYSIS	TYPE
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	******	•••••	*****							
00530 1 0 Effluent Gross	BEOLIBEMENT	1207	-	172		15 30DA AVG	30 DAILY	ß.	mg/L	1000	Weekly	GRAB
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****							
00530 8 0 Other Treatment, Process Complete	HERMIT REQUIREMENT					30 S30PAAVG	DALY	Ø.	mo/		Weekly	GPAR
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****							
01032 1 0 Effluent Gross	PERMIT	mare a		7111	- P. C	011 20DA AVG	O16		1000		Pelly	GRAD
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	661642	*****	*****							
01034 1 0 Effluent Gross	PERMIT BEQUIREMENT		eres.	700		30DA AVG	Z DALY	Ο	mga	4	Daily.	3 GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	******	*****	41232							
01042 1 0 Effluent Gross	REQUIREMENT		11111		5.0877	.025 30DA.AVG-3	O41 DAILY	W E	. 1924		Lax Daily	GRAB
ron, total (as Fe)	SAMPLE MEASUREMENT	*****	,	*****	******	*****						
01045 1 0 Effluent Gross	PERMIT REQUIREMENT	min	*******	1779	dark		PALX	1 X.	- mg/4		Daily	GRAB,
Lead, total (as Pb)	SAMPLE MEASUREMENT	*****	*****	*****	404127							
01051 1 0 Effluent Gross	REQUIREMENT	, , , , , , , , , , , , , , , , , , , 	eeppe .	71117	New Section 1		298 DAILY	ΔX.	US/		Daily	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICES	Certify under penalty of direction or supervision in	n accordance with a s	personnel		TELEPHONE			DATE				
Benjamin P. Youman	properly gather and evalute the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am SIGNATURE OF PRINCIPLE											
Plant Manager	aware that there are sign fine and imprisionment to	rificant penalties for su			conference a certain i	EXECUTIVE OFFIC	ER OR	AREA	NUMBER		MM/DD/YYY	Y
COMMENTS AND EXPLANA						AUTHORIZED AC	JEN I	CODE	L	L		

(PLANATION OF ANY VIOLATIONS (Reference all attachments here)

- 1. No Turbine Building Fire and Oil Sump or Generic Non-Chemical Metal Cleaning Wastewater was discharged this month.
- 2. No Fire Protection, Service Water or Closed Cooling System Drain Water was discharged this month.

EPA Form 3220-1 (Rev 01/06) Previous editions may be used.

1/6/2012

PERMITTEE NAME/ADDRESS	PER	MITTEE	NAME	ADDRESS
------------------------	-----	--------	------	---------

NAME Exelon Generation Co., LLC **ADDRESS** 4300 Winfield Road

Warrenville, Il 60555-5701

FACILITY **Byron Nuclear Power Station** LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	
PERMIT NUMBER	

FROM

	00	2-0)			
DISCI	HAR	3E N	ĪŪN	BE	Ŕ	

MONITORING PERIOD						
MM/DD/YYYY						
07/31/2012						

DMR Mailing ZIP CODE:

MAJOR

(SUBR 01)

61010

STORMWATER RUNOFF BASIN

External Outfall

*** NO DISCHARGE

ATTN: ZOO COX/ENV SPEC FREQUENCY QUANTITY OR LOADING QUANTITY OR CONCENTRATION NO. SAMPLE PARAMETER OF EX TYPE VALUE VALUE UNITS VALUE VALUE LIMITS VALUE **ANALYSIS** Nickel, total SAMPLE ***** (as Ni) MEASUREMENT 01067 1 0 RERMIT 178 REMINEMENT Effluent Gross Zinc. total SAMPLE (as Zn) MEASUREMENT REPAIR 01092 1 0 Effluent Gross BECLIREMENT SAMPLE Oil and Grease MEASUREMENT 03582 1 0 15 PERMIT Effluent Gross Flow, in conduit or thru SAMPLE treatment plant MEASUREMENT 50050 1 0 WHERMIT ! Reg. Mon. Effluent Gross REQUIREMENT SAMPLE MEASUREMENT PERMIT BEOUBEVENS SAMPLE MEASUREMENT SAMPLE MEASUREMENT BERMIT NAME/TITLE certify under penalty of law that this document and all attachments were prepared under my TELEPHONE DATE PRINCIPAL EXECUTIVE OFFICER direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evalute the information submitted. Based on my inquiry of the person or persons 815 406-3700 Benjamin P. Youman who manage the system, or those persons directly responsible for gathering the information, the 08/24/2012 SIGNATURE OF PRINCIPLE information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting talse information, including the possibility of EXECUTIVE OFFICER OR Plant Manager AREA NUMBER MM/DD/YYYY ine and imprisionment for knowing violations. TYPED OR PROITED **AUTHORIZED AGENT** CODE

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- 1. This discharge point was not used this month.
- 2. There was no discharge of processed steam generator chemical cleaning wastewater during the month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

For Exelon Byron Station Permit IL0048313 July 2012 Page 1 of 3

MONITORING DATA:

MONITORING	CWBD		Rock River
DATE		CWBD Flow	Flow
DAIL	Temperature	mgd	cfs
07/04/0010	deg F	00.04	
07/01/2012	99.0	22.04	2,130
07/02/2012	101.0	18.63	2,120
07/03/2012	101.0	24.02	2,080
07/04/2012	102.0	17.52	2,040
07/05/2012	102.0	20.72	1,990
07/06/2012	102.0	19.99	1,880
07/07/2012	102.0	24.39	2,010
07/08/2012	101.0	14.60	1,920
07/09/2012	96.0	12.80	1,790
07/10/2012	95.8	18.91	1,770
07/11/2012	97.0	18.21	1,800
07/12/2012	96.4	17.75	1,780
07/13/2012	98.0	23.14	1,770
07/14/2012	97.7	25.89	1,760
07/15/2012	99.4	22.63	1,850
07/16/2012	101.0	15.86	1,750
07/17/2012	102.0	25.27	1,780
07/18/2012	102.0	19.07	1,730
07/19/2012	100.0	22.15	1,980
07/20/2012	100.0	21.85	2,010
07/21/2012	95.0	27.78	1,990
07/22/2012	99.6	25.38	1,920
07/23/2012	101.0	15.15	1,840
07/24/2012	103.0	21.70	2,060
07/25/2012	102.0	22.94	2,070
07/26/2012	102.0	21.17	2,000
07/27/2012	97.6	20.88	1,930
07/28/2012	96.3	29.27	1,940
07/29/2012	98.0	21.98	1,950
07/30/2012	98.0	15.87	1,940
07/31/2012	101.0	23.01	1,950
0//3//2012	101.0	23.01	1,950

For Exelon Byron Station Permit IL0048313 July 2012 Page 2 of 3

HYDRAZINE MONITORING:

There were no steam generator chemical cleaning solutions (or associated rinses) containing hydrazine discharged to the Cooling System Blowdown during the month of July 2012.

TOTAL QUANTITY DISCHARGED: N/A

TOTAL DURATION OF DISCHARGE: N/A

COMMENTS:

- 1. Sodium Hypochlorite and Bromine compounds were used this month.
- 2. There was no discharge of steam generator chemical cleaning wastewater containing hydrazine in this month.
- 3. Flow existed through this outfall 31 of 31 days.
- 4. Per Special Condition 24 the influent from the Rock River and effluent from Outfall 001-0 was monitored for Total Suspended Solids (TSS) this month. The Rock River TSS value was 29.2 mg/L on 07/09/2012. The CWBD TSS value was 3.00 mg/L on 07/09/2012.
- 5. Rock River flow was <2400 cfs in July 2012 therefore daily temperature calculations were required during this time period. (Special Condition 12). Per Special Condition 12, in the event the Rock River flow is <2,400 cfs, daily calculations will be undertaken to demonstrate compliance with the water quality standard. The calculations are based on hourly measurements, averaged over a 24-hour calendar day for Rock River flow, main Rock River temperature, CW Blowdown flow, and CW Blowdown temperature values. Results of the calculations shall be reported in the DMR on a monthly basis. Calculation results are in the table on the following page.</p>
- 6. There was no discharge of the 126 Priority Pollutants from cooling tower maintenance chemicals in July 2012. (Special Condition 15).

For Exelon Byron Station Permit IL0048313 July 2012 Page 3 of 3

Date	Average	Average	Average	Average	Calculated	Water Quality
	Rock	CW M/U	CW	CW	Temperature	Standard
	River	Temperature	Blowdown	Blowdown	at edge of	Temperature
	Flow	(F)	Flow	Temperature	mixing zone	(F)
	(cfs)		(gpm)	(F)	(F)	
7/01/12	2,123	78	15,830	98	79	90
7/02/12	2,124	80	16,221	100	80	90
7/03/12	2,088	81	16,208	99	82	90
7/04/12	2,040	81	14,777	101	82	90
7/05/12	1,999	82	12,686	102	83	90
7/06/12	1,875	84	13,113	102	85	90
7/07/12	1,987	84	12,675	102	85	90
7/08/12	1,938	83	12,059	96	83	90
7/09/12	1,807	81	12,293	97	82	90
7/10/12	1,770	78	13,375	96	79	90
7/11/12	1,802	77	13,411	97	78	90
7/12/12	1,781	78	14,590	98	79	90
7/13/12	1,775	78	15,685	99	80	90
7/14/12	1,752	77	15,525	99	79	90
7/15/12	1,850	80	15,433	101	81	90
7/16/12	1,758	83	15,565	101	84	90
7/17/12	1,774	84	15,449	102	85	90
7/18/12	1,731	85	15,736	101	86	90
7/19/12	1,964	83	15,658	97	84	90
7/20/12	2,010	80	15,688	95	81	90
7/21/12	1,995	81	15,828	96	82	90
7/22/12	1,927	80	15,778	98	80	90
7/23/12	1.835	79	15,749	100	80	90
7/24/12	2,050	79	15,805	100	80	90
7/25/12	2,082	79	15,676	99	79	90
7/26/12	2,003	78	15,550	98	79	90
7/27/12	1,940	78	15,500	96	78	90
7/28/12	1,941	77	15,390	95	77	90
7/29/12	1,998	76	15,493	95	77	90
7/30/12	1,945	76	15,386	98	77	90
7/31/12	1,952	78	15,499	99	79	90



Exelon Generation Company, LLC **Byron Station** 4450 North German Church Road Byron, IL 61010-9794

www.exeloncorp.com

Nuclear

September 25, 2012

LTR: BYRON 2012-0106

File: 2.09.0411

1.10.0101

Illinois Environmental Protection Agency Water Pollution Control Compliance Assurance Section #19 1021 North Grand Avenue East P.O. Box 19276 Springfield, IL 62794-9276

Subject:

Byron Station Monthly Discharge Monitoring Report

In accordance with National Pollutant Discharge Elimination System (NPDES) Permit Number IL0048313, issued January 24, 2011, we are submitting the Discharge Monitoring Report for Byron Station, Units 1 and 2. This report covers the period of August 1, 2012 through August 31, 2012.

On 8/9/2012 the U2 Natural Draft Cooling Tower (NDCT) basin overflowed as a result of plugging of the outfall screens caused by cooling tower fill pack debris. Operations took immediate corrective actions to lower the level in the flume and basin to stop the overflow condition. Additionally maintenance personnel were called in to the clean the debris from the outfall screens. The cooling tower basin overflow water flowed north in the storm water ditch and entered Woodland Creek via storm water Outfall 003, East Station Area Runoff. The estimated duration of the overflow event is 63 minutes at a flow rate of approximately 0.13 gallons per minute resulting in an estimated 8.3 gallons of cooling tower water flowing through Outfall 003. Analysis results of a sample of the cooling tower water obtained prior to entrance into the storm water ditch are summarized in the following table:

рН	Copper (mg/L)	Zinc (mg/L)	Chromium (mg/L)
8.39	0.014	0.044	0.004

On 8/30/2012, cooling tower water was seen coming out of the storm drain pipe located next to the U2 NDCT. The water had pooled on the ground and run underneath the barrier erected around the storm drain pipe to prevent this from happening. Maintenance personnel adjusted the catch containment devices for the temporary Mechanical Draft Cooling Towers which were the source of the pooling water. This stopped the flow of water entering the storm drain pipe. After walking down the area it was determined the water had pooled at the storm drain pipe exit and had not entered the drainage ditch nor exited via Outfall 003. The estimated duration of this event is approximately 2.0 hours at a flow rate of approximately 0.5 to 1.0 gallons per hour resulting in an estimated 2 gallons of cooling tower water entering the storm drain pipe. Analysis results of a sample of the cooling tower water obtained prior to entrance into the storm drain pipe are summarized in the following table:

Copper (mg/L)	Zinc (mg/L)	Chromium (mg/L)
0.029	<0.0020	<0.0021

September 25, 2012 Byron Letter 2012-0106 Page 2

Byron Station continues to closely monitor NDCT debris fence delta levels and replacement of cooling tower fill is being planned. Unit 1 NDCT fill replacement has started as of September 2012. It is expected that the changes to the tower fill should prevent future tower overflow events.

If there are any questions regarding this report, please contact Ms. Zoe Cox, Environmental/Radwaste Supervisor, at (815) 406-3035.

Respectfully,

Simponem P. Jermonn Benjamin P. Youman

Plant Manager

Byron Nuclear Generating Station

BPY/ZC/eh Attachments

J. Gould – Environmental – Cantera (electronic) Z. Cox – Chemistry – Byron bcc:

		MAFSS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road
Byron, IL 61010

A01-0
DISCHARGE NUMBER

- 1	MON	TORING PE	RIOD	
	MM/DD/YYYY		MM/DD/YYYY	
ROM	08/01/2012	ТО	08/31/2012	

DMR Mailing ZIP CODE:

61010

PAGE 1

1/6/2012

MAJOR

(SUBR 01) CS

DEMINERALIZER REGENERATE WASTE (001A)
External Outfall

*** NO DISCHARGE ...

ATTN:	Zoe	Cox/EN	V SPEC

PARAMETER		QUAN	ITTTY OR LOADING	3	•	QUANTITY OR CONCENTRATION					SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	1.6	2.0	19	0	01/30	08
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	*******	queeze,	******	202040	15 30DA AVG	30 DAILY MX	mg/L		Monthly	COMP-8
Chromium, hexavalent as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01032 1 0 Effluent Gross	PERMIT REQUIREMENT	#8000g	tassan .	920000	#88008 2/3	30DA AVG	DAILY MX	mg/L		Daily	GRAB
Chromium, total as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01034 1 0 Effluent Gross	PERMIT REQUIREMENT	E34466	******	229444	***************************************	1 30DA AVG	DAILY MX	mg/L		Daily	GRAB
copper, total as Cu)	SAMPLE MEASUREMENT	*****	******	*****	*****					500	
D1042 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	206444	******	.5 30DA AVG	1 DAILY MX	mg/L		Daily	GRAB
ron, total as Fe)	SAMPLE MEASUREMENT	*****	******	*****	*****	******				500	
D1045 1 0 Effluent Gross	PERMIT REQUIREMENT	esotas	*******	209000	ecotos A	******	DAILY MX	mg/L		Daily	GRAB
ead, Total as Pb)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01051 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	******	999044	,2 30DA AVG	DAILY MX	mg/L		Daily	GRAB
lickel, total as Ni)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01067 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	20000		30DA AVG	2 DAILY MX	mg/L		Daily	GRAB
	I certify under penalty of direction or supervision i	n accordance with a s	ystem designed to assu	re that qualified	personnel		TE	LEPHONE		DATE	
Benjamin P. Youman	who manage the system	properly gather and evalute the information submitted. Based on my inquiry of the person or person who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I an			nation the	SIGNATURE OF PRI	NCIPLE 815	406-3700	09/25/2012		
Plant Manager	aware that there are sign fine and imprisionment to	ificant penalties for su			possibility of	EXECUTIVE OFFICER OR AREA NUMBER			MM/DD/YYYY		
OMMENTS AND EXPLANAT	ION OF ANY VIOLA	TIONS (Reference	all attachments t	iere)				=1		·	
 There was no discharge of p Flow existed 31 of 31 days d 	•	erator chemical cl	eaning wastewater	during this m	onth.						

PERMIT			

NAME Exelon Generation Co., LLC ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY **Byron Nuclear Power Station** LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	A01-0
PERMIT NUMBER	DISCHARGE NUMBER

	MO	NITORING PER	IOD	
	MM/DD/YYYY		MM/DD/YYYY	
ROM	08/01/2012	то	08/31/2012	

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01)

DEMINERALIZER REGENERATE WASTE (001A) External Outfall

CS

... NO DISCHARGE

PARAMETER		QUAN	ITTY OR LOADING	3		QUANTITY OR CON	CENTRATIC	N		NO.	FREQUENCY	SAMPLE
PANAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALU	E	UNITS	EX	ANALYSIS	TYPE
Zinc, Total as Zn)	SAMPLE MEASUREMENT	*****	*****	*****	*****						500	
01092 1 0 Effluent Gross	PERMIT REQUIREMENT	******	Secons	274444	******	30DA AVG	2 DAILY I	V OX	mg/L		Daily	GRAB
low, in conduit or thru eatment plant	SAMPLE MEASUREMENT	0.057	0.243	3	*****	040100	1090#1		*****	0	01/01	ES
60050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mori, 30DA AVG	Req. Mon. DAILY MX	MgaVd	******	030000	0.00031		22000	***	Daily	CONTIN
	SAMPLE MEASUREMENT										!	
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											P P P
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT			A 177.5								
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT				. • • • • • • • • • • • • • • • • •							•
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT									4		
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision is							TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system.	ute the information sut , or those persons dire	omitted. Based on my in actly responsible for gat	nquiry of the pe hering the infor	rson or persons nation, the	SIGNATURE OF PRI		815	406-3700		09/25/2012	}
Plant Manager	information submitted is, aware that there are sign fine and imprisionment to	dificant penalties for su	wedge and belief, thie, ibmitting false information	accurate, and c on, including the		EXECUTIVE OFFIC	ER OR	AREA	NUMBER	<u> </u>	MM/DD/YYY	
COMMENTS AND EXPLANA	TION OF ANY VIOLA	DONS (Reference	all attachments h	ere)		AUTHORIZED AC	IEN I	CODE		L		
. Flows for August 2012 are replacement totalizers and	estimated based on Ju	uly 2012 values du			ice in August. The	totalizers are an obs	solete model	and wo	rk orders an	e in plac	e to find	

PERMITTEE NAME/ADDRESS

AME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	
 PERMIT NUMBER	

FROM

B01-0	
DISCHARGE NUMBER	

MONITORING PERIOD						
MM/DD/YYYY		MM/DD/YYYY	_			
08/01/2012	то	08/31/2012				

DMR Mailing ZIP CODE:

61010

MAJOR (SUBR 01)

CS

STP PLANT EFFLUENT (FORMER 001B)

External Outfall

··· NO DISCHARGE ____ ···

PARAMETER		QUANTITY OR LOADING				QUANTITY OR CONCENTRATION				NO.	FREQUENCY	SAMPLE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUI	E_	UNITS	EX	ANALYSIS	TYPE
OD, 5-Day 20 Deg. C)	SAMPLE MEASUREMENT	0.38	0.40	26	******	6.5	7.0		19	٥	02/30	24
0310 1 0 iffluent Gross	PERMIT REQUIREMENT	5.3 30DA AVG	10.5 DAILY MX	Byd	and the second	30 30DA AVG	60 DAILY N		mg/L		Twice Per Month	COMP24
н	SAMPLE MEASUREMENT	*****	*****	*****	7.41	*****	7.61		12	0	02/30	GR
9400 1 0 Effluent Gross	PERMIT ** REQUIREMENT		***************************************	Pagasa	e MINIMUM \$	***************************************	9 MAXIMU		SU		Twice Per Month	GRAB
iolids, total suspended	SAMPLE MEASUREMENT	0.063	0.080	26	*****	<0.78	1.2		19	0	02/30	24
90530 1 0 Effluent Gross	PERMIT #	5.3 30DA AVG	10.5 DAILY MX	b/d		30 30DA AVG	60 DAILY N		mg/L		Twice Per Month	COMP24
low, in conduit or thru reatment plant	SAMPLE MEASUREMENT	0.007	0.012	3	*****	#4494*	*****		*****	0	01/01	CN
60050 1 0 Effluent Gross	PERMIT REQUIREMENT	"Req. Mon. 30DA AVG	Req. Mon. DAILY MX	Mgal/d	and on the second	*******	iones	1	*******	100	Daily	CONTIN
	SAMPLE MEASUREMENT				1							
	PERMIT REQUIREMENT						A Section 1		, A	4.		
	SAMPLE MEASUREMENT		. <u>.</u>									
	PERMIT ** REQUIREMENT	हें _{कि} स्टब्स्ट्रिस हैं ।										
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT							**	\$ - J. (\$)	7.3		***
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision in	law that this documen	t and all attachments w	ere prepared un	der my nersonnel			TEL	EPHONE		DATE	<u> </u>
Benjamin P. Youman	properly gather and evaluation manage the system.	ute the information sut , or those persons dire	omitted. Based on my in actly responsible for gat	nquiry of the per hering the inform	son or persons	GNATURE OF RE	MODE -	815	406-3700		09/25/2012	
Plant Manager	information submitted is, aware that there are sign fine and imprisionment to	ificant penalties for su				EXECUTIVE OFFICE		AREA	NUMBER	-	MM/DD/YYY	
TYPED OR PRINTED	lines one subspectations of	II KILOMBIYY VICIOLOGI.				AUTHORIZED AC	ENT	CODE	HUMBER	1	MNYUUTII	•

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY **Byron Nuclear Power Station** LOCATION 4450 North German Church Road

Byron, IL 61010

	IL0048313	
P	ERMIT NUMBER	

	(201-0		
DISC	HAI	RGE N	UMBER	

	MONITORING PERIOD							
	MM/DD/YYYY		MM/DD/YYYY					
ROM	08/01/2012	то	08/31/2012					

DMR Malling ZIP CODE:

61010

MAJOR

(SUBR 01)

WWTP (FORMER 001C) **External Outfall**

	• NO	DISCHARGE		
_	- 70	DISCHARGE	1	

CS

PARAMETER		QUAN	ITTTY OR LOADING	3	C	DUANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
PANABETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	ANALYSIS	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	******	5.5	7.1	19	0	02/30	24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	911200	*******	20000	913040	15 30DA AVG	30 DAILY MX	mg/L		Twice Per Month	COMP24
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01032 1 0 Effluent Gross	PERMIT REQUIREMENT	ESCOR	alors:		tunas in the	30DA AVG	DAILY MX	mg/L		Daily	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	******]			500	
01034 1 0 Effluent Gross	PERMIT REQUIREMENT	******	anage 4 to 1	******	acres .	30DA AVG	2 DAILY MX	mg/L	7	Daily	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	******	******	*****	*****					500	
01042 1 0 Effluent Gross	PERMIT REQUIREMENT	211000	*** *******	20000	######################################	.5 30DA AVG	1 DAILY MX	mg/L	1 m	Daily	GRAB
Iron, total (as Fe)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****				500	
01045 1 0 Effluent Gross	PERMIT REQUIREMENT	21,1000	******	******	sseede	999448	1 DAILY MX	mg/L		Daily	GRAB
Lead, total (as Pb)	SAMPLE MEASUREMENT	*****	******	*****	*****					500	
01051 1 0 Effluent Gross	PERMIT REQUIREMENT	- United 6	*******	107000	##\$44#	.2 30DA AVG	.4 DAILY MX	mg/L		Daily	GRAB
Nickel, total (as Ni)	SAMPLE MEASUREMENT	******	*****	*****	*****					500	
01067 1 0 Effluent Gross	PERMIT REQUIREMENT	970400	*******	230000	#88000	30DA AVG	2 DAILY MX	mg/L		Daily	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision is					_	т	ELEPHONE		DATE	
Benjamin P. Youman	property gather and evaluation manage the system information submitted is.	, or those persons dire	ectly responsible for gat	hening the inform	nation, the	GIGNATURE OF PRI	INCIPLE 81	5 406-3700		09/25/2012	
Plant Manager	aware that there are sign fine and imprisionment to	dificant penalties for su				EXECUTIVE OFFICE	ER OR ARE	INUMBER		MM/DD/YYY	Υ
TYPED OR PRINTED COMMENTS AND EXPLANAT	L		0 -0		<u></u>	AUTHORIZED A	GENT COL	NUMBER	<u> </u>	MM/DU/TTY	· · · · · ·

- 1. There was no discharge of processed steam generator chemical cleaning wastewater during this month.
- 2. Flow existed through this outfall 15 of 31 days during the month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

PERMITTEE NAME/ADDRESS

Exelon Generation Co., LLC NAME

ADDRESS 4300 Winfield Road Warrenville, IL 60555-5701

FACILITY **Byron Nuclear Power Station** LOCATION 4450 North German Church Road

Byron, IL 61010

DIS	CHANGE MUNII	Uning Republi	(DMH)
11.00	40040 Ì		AA4 A

IL0048313	C01-0
PERMIT NUMBER	DISCHARGE NUMBER

1	MONIT	ORING	PERIOD
	MM/DD/YYYY	T	MM/DD/YYYY
ROM	08/01/2012] то[08/31/2012

DMR Malling ZIP CODE:

MAJOR

(SUBR 01) CS

WWTP (FORMER 001C) External Outfall

*** NO DISCHARGE

61010

ATTN: Zoe Cox/ENV SPEC FREQUENCY QUANTITY OR LOADING **QUANTITY OR CONCENTRATION** NO. SAMPLE QF PARAMETER EX TYPE VALUE VALUE UNITS VALUE VALUE VALUE UNITS **ANALYSIS** Zinc, total SAMPLE 500 MEASUREMENT (as Zn) 01092 1 0 PERMIT : 1 2 **** Daily ' · ma/Ľ GRAB 30DA AVG DAILY MOX REQUIREMENT Effluent Gross Flow, in conduit or thru SAMPLE ***** 0.018 0.025 3 0 01/01 CN treatment clant MEASUREMENT Reg. Mon. 50050 1 0 PERMIT Reg. Mon. Mgel/d Daily CONTIN DAILY MX REQUIREMENT 30DA AVG Effluent Gross SAMPLE MEASUREMENT PERMIT * (** £ REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT NAME/TITLE certify under penalty of law that this document and all attachments were prepared under my TELEPHONE DATE PRINCIPAL EXECUTIVE OFFICER direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evalute the information submitted. Based on my inquiry of the person or persons 406-3700 815 who manage the system, or those persons directly responsible for gathering the information, the Benjamin P. Youman 09/25/2012 SIGNATURE OF PRINCIPLE information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am Plant Manager aware that there are significant penalties for submitting talse information, including the possibility of **EXECUTIVE OFFICER OR** AREA NUMBER MM/DD/YYYY fine and imprisionment for knowing violations. TYPED OR PRINTED **AUTHORIZED AGENT** CODE COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) 1/6/2012 EPA Form 3320-1 (Rev 01/06) Previous editions may be used. PAGE 2

				RESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	
PERMIT NUMBER	Di

FROM

R	DISCHARGE NUMBER						
	<u> </u>						
MONITORING	G PERIOD						

D01-0

MM/DD/YYYY MM/DD/YYYY 08/01/2012 TO 08/31/2012

DMR Malling ZIP CODE:

61010

MAJOR

(SUBR 01) CS

RADWASTE TREATMENT (FORMER 001D) External Outfall

... NO DISCHARGE

DADAMETED		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION						FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALU	E	UNITS	EX	OF ANALYSIS	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	=++++	*****	*****	*****	0.9	1.3		19	0	02/30	СР
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	Address	******	******	15 30DA AVG	30 DAILY		mg/L		Twice Per Month	сомроѕ
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.023	0.023	3	*****	*****	*****		*****	0	01/01	CN
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	Mgal/d	22020	6400.00	******		950940		Daily	CONTIN
	SAMPLE MEASUREMENT										· · · · · · · · · · · · · · · · · · ·	<u></u>
	PERMIT REQUIREMENT					\$300 may 1944.				7		
	SAMPLE MEASUREMENT	· · · · · · · · · · · · · · · · · · ·										
	PERMIT REQUIREMENT	-				.7		12,71		in i		**************************************
***************************************	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT							: "! ·		/-		
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT			\$ K#	germaners.	Property for the second		` '.		,		
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											**************************************
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision i						·	TE	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system information submitted is.	, or those persons din	actly responsible for gat	hering the infor	nation the	IGNATURE OF RE	NCIPLE	815	406-3700		09/25/2012	
Plant Manager	aware that there are sign fine and imprisionment to	nificant penalties for su				EXECUTIVE OFFICE	ER OR	AREA	NUMBER		MM/DD/YYY	 Y
COMMENTS AND EXPLANA	TION OF ANY VIOLA	TIONS (Reference	e all attachments h	ere)		AUTHORIZED AT	36N I	CODE				
1. Flow existed through this o		=										

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

MONITORING PERIOD

τοί

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY **Byron Nuclear Power Station** LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	
PERMIT NUMBER	

MM/DD/YYYY

08/01/2012

FROM

E01-0	
DISCHARGE NUI	MBER

MM/DD/YYYY

08/31/2012

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01) CS

STORMWATER (FORMER 001E)

External Outfail

··· NO DISCHARGE

SAMPLE MEASUREMENT PERMIT REQUIREMENT	VALUE	VALUE	UNITS	VALUE	1						
MEASUREMENT PERMIT		*****			VALUE	VALUE		UNITS	EX	OF ANALYSIS	TYPE
		L	*****	*****						500	
	000000	******	******	j še ngje	15 30DA AVG	30 Daily M	x	rng/L		Weekly	GRAB
SAMPLE MEASUREMENT	*****	*****	*****	*****	7.9	8.0		19	0	01/07	GR
PERMIT REQUIREMENT	*******			and and	30 30DA AVG	100	X.	cmg/L		Weekly	GRAB
SAMPLE MEASUREMENT	*****	******	*****	2,444						500	
PERMIT REQUIREMENT	docate:	1.79 (1.19)	palave		30DA AVG			mg/L		Daily	GRAB
SAMPLE MEASUREMENT	*****	*****	*****	*****						500	
PERMIT REQUIREMENT	******	******	223200		1 30DA AVG	2 DAILY M	ΙX	mg/Ľ		Daily	GRAB
SAMPLE MEASUREMENT	*****	*****	*****	*****						500	
PERMIT REQUIREMENT	*****	**************************************	210000	*******	.5 30DA AVG			mg/L		Daily	GRAB
SAMPLE MEASUREMENT	*****	*****	*****	*****	*****					500	
PERMIT REQUIREMENT	******	###### '	Settes	60/022	202004	1 DAILY M	X	mg/L		Daily	GRAB
SAMPLE MEASUREMENT	*****	*****	*****	*****						500	
PERMIT REQUIREMENT	909188	******	*****	*****	.2 30DA AVG	.4 DAILY M	x	mg/L		Daily	GRAB
direction or supervision is	n accordance with a sy	ystem designed to assu	re that qualified	personnel			TEL	EPHONE		DATE	
who manage the system,	, or those persons dire	ectly responsible for gati	hering the inform	antina tha	IGNATURE OF PRI	NCIPLE	815	406-3700		09/25/2012	
aware that there are sign	ificant penalties for su				EXECUTIVE OFFICER OR			NUMBER		MM/DD/YYY	Υ
	REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT REQ	REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT Certify under penalty of law that this documen irection or supervision in accordance with a stroperty gather and evalute the information sulformation sulformation sulformation submitted is, to the best of my knowledge.	REQUIREMENT SAMPLE MEASUREMENT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT REQUIREMENT REQUIREMENT DETAILS SAMPLE MEASUREMENT SAMPLE MEASUREMENT DETAILS SAMPLE MEASUREMENT SAMPLE SAMPLE MEASUREMENT SAMPLE SAM	REQUIREMENT SAMPLE MEASUREMENT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT COURTEMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT COURTEMENT REQUIREMENT SAMPLE MEASUREMENT SAMPLE SAMPLE MEASUREMENT SAMPLE SAMPLE MEASUREMENT SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE MEASUREMENT SAMPLE SA	REQUIREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT SAMPLE SAMPLE MEASUREMENT SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPL	REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT REQUIREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT SETTING SODA AVG STORES SODA AVG STORES SODA AVG STORES SODA AVG STORES SODA AVG STORES SODA AVG STORES SODA AVG SOD	REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT SAMPLE MEASUREMENT PERMIT SAMPLE MEASUREMENT PERMIT SAMPLE MEASUREMENT SAMPLE MEASUREMENT PERMIT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE SAMPLE MEASUREMENT SAMPLE SAMPLE MEASUREMENT SAMPLE SAMP	REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT PERMIT PERMIT SAMPLE MEASUREMENT PERMIT PERMIT SAMPLE MEASUREMENT PERMIT SAMPLE MEASUREMENT PERMIT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT PERMIT SAMPLE MEASUREMENT SAMPLE SAMPLE SIGNATURE OF FRINCIPLE EXECUTIVE OFFICER OR AREA	REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT SAMPLE SA	REQUIREMENT SAMPLE MEASUREMENT PERMIT PERMIT REQUIREMENT SAMPLE MEASUREMENT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE SA	REQUIREMENT SAMPLE MEASUREMENT REQUIREMENT SAMPLE MEASUREMENT REQUIREMENT SAMPLE MEASUREMENT REQUIREMENT SAMPLE MEASUREMENT REQUIREMENT SAMPLE MEASUREMENT REQUIREMENT SAMPLE MEASUREMENT REQUIREMENT SAMPLE MEASUREMENT REQUIREMENT SAMPLE MEASUREMENT SAMPLE SAMPLE MEASUREMENT SAMPLE SAMPLE MEASUREMENT SAMPLE SAMPLE MEASUREMENT SAMPLE SAMPLE MEASUREMENT SAMPLE SA

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- 1. There was no discharge of processed steam generator chemical cleaning wastewater during the month.
- 2. Flow existed through this outfall 1 of 31 days during the month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

	ER	UTTEE	NAME/ADDRE	22
•		WILLEE	NAME/ADDAS	.33

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road
Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byron, IL 61010

 IL0048313	
PERMIT NUMBER	

E01-0 DISCHARGE NUMBER

	MO	NITORING PERI	OD
	MM/DD/YYYY		MM/DD/YYYY
ROM -	08/01/2012	то	08/31/2012

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01)

STORMWATER (FORMER 001E)

CS

External Outfail

*** NO DISCHARGE ***

		QUAI	NTITY OR LOADING	G	C	QUANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
Nickel, total (as Ni)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01067 1 0 Effluent Gross	PERMIT	******	Access 14 au	*******	p12100	SODA AVG	2 DAILY MX	mg/L	3	Daily	GRAB
Zinc, total (as Zn)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01092 1 0 Effluent Gross	PERMIT REQUIREMENT	254445	600009	242400	889500	30DA AVG	2 DAILY MOX	mg/L		Daily	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.390	0.390	3	******	*****	*****	•••••	0	02/30	CN
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	Mgal/d	224440	******	******	222400	2:	Twice Per Month	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT							• • • • • • • • • • • • • • • • • • • •			
	SAMPLE MEASUREMENT						}				
	PERMIT REQUIREMENT				Markey Warf And	19th			•	s Silver Larger	1
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT			A Parket Land							
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision i							relephone		DATE	
Benjamin P. Youman	properly gather and evaluation who manage the system	tute the information suit, or those persons din	brnitted. Based on my i ectly responsible for gat	nquiry of the per hering the infor	rson or persons nation, the	GIVE OF PRI	BCIPLE 8	15 406-3700		09/25/2012	:
Plant Manager	information submitted is, aware that there are sign fine and imprisionment for	nificant penalties for su				EXECUTIVE OFFICE	ER OR AR	EA NUMBER		MM/DD/YYY	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
TYPED OR PRINTED	I mentionality on the enti-	or anoming violations.				AUTHORIZED AC	GENT CO	DE	<u> </u>		<u>-</u>

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- 1. No Service Water or Closed Cooling System Drain Water was discharged this month.
- 2. Fire Protection drain water was discharged this month.
- 3. No Turbine Building Fire and Oil Sump or Generic Non-Chemical Cleaning wastewater was discharged this month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

DISCHARGE MONI	TORING REPORT (DMR)
IL0048313	001-0

PERMIT NUMBER

001-0
DISCHARGE NUMBER

	MON	ITORING	PERIOD
	MM/DD/YYYY		MM/DD/YYYY
FROM	08/01/2012		08/31/2012

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01) CS

COOLING SYSTEM BLOWDOWN External Outfall

** NO	DISCHARGE		•••
NO	DISCHARGE	3 1	

PARAMETER Temperature, water deg. Fahrenheit D0011 1 0 Effluent Gross PERMIT FAMPLE MEASUREM D0400 1 0 Effluent Gross Solids, total suspended D0530 1 0 Effluent Gross Cil & Grease D0556 1 0 PERMIT REQUIREM SAMPLE MEASUREM PERMIT REQUIREM	ENT ENT ENT ENT	VALUE ******* ******* ******* ******** ****	UNITS	7.81	VALUE	VALUE 102.0 Req. Mon., MO MAX 8.31 MAXIMUM	UNITS 15 Geg F	0 0	OF ANALYSIS 01/01 Daily 01/07	CONTIN GR
Fahrenheit D0011 1 0 Effluent Gross DH D0400 1 0 Effluent Gross Solids, total suspended D0530 1 0 Effluent Gross Dil & Grease D0556 1 0 Effluent Gross Effluent Gross Dil & Grease D0556 1 0 Effluent Gross Effluent Gross D1 & Grease D0556 1 0 Effluent Gross Effluent Gross PERMIT REQUIREM PERMIT REQUIREM REASUREM PERMIT REQUIREM	ENT ENT ENT ENT	***************************************		7.81 6 MINIMUM		Req. Mon., MO MAX 8.31 MAXIMUM	0eg F 7		Dally	CONTIN
Effluent Gross CH CH CH CH CH CH CH CH CH	ENT ENT ENT	BESSEE STATE	•••••	7.81 6 / 3/3 MINIMUM	******	MO MAX 8.31 MAXIMUM	12	0	01/07	*
MEASUREM DO400 1 0 Effluent Gross Solids, total suspended D0530 1 0 Effluent Gross Dil & Grease D0556 1 0 Effluent Gross MEASUREM MEASUREM MEASUREM MEASUREM MEASUREM SAMPLE MEASUREM M	ENT	600000	*****	MINIMUM	princes.	MAXIMUM .	700 TO 10 TO	0		GR
Effluent Gross REQUIREM Solids, total suspended D0530 1 0 FERMIT Effluent Gross Cil & Grease D0556 1 0 FERMIT PERMIT MEASUREM MEASUREM D0556 1 0 FERMIT Effluent Gross REQUIREM REQUIREM	ENT	*****	*****	MINIMUM		MAXIMUM	SU		Woold	
MEASUREM D0530 1 0 Effluent Gross Dil & Grease D0556 1 0 Effluent Gross REQUIREM MEASUREM MEASUREM MEASUREM MEASUREM MEASUREM PERMIT REQUIREM	ENT			*****	12.0				As gold	GRAB
Effluent Gross REQUIREM Dil & Grease SAMPLE MEASUREM D0556 1 0 PERMIT Effluent Gross REQUIREM	•••••	3	was see		12.0	12.0	19	0	01/30	GR
DOI & Grease MEASUREM DO556 1 0 PERMIT Effluent Gross REQUIREM] ******			******	Reg. Mort. 30DA AVG	Req. Mon. DAILY MX	mg/L		Monthly	GRAB
Effluent Gross REQUIREM		*****	*****	*****	<1.4	<1.4	19	0	01/07	GR
		Final Control	******	dal.	15 30DA AVG	20 DAILY MX	mg/L	\$ 8.4.7 2 - 1 - 1	Weekly	GRAB
Chromium, total (as Cr) SAMPLE MEASUREM	644044	*****	*****	*****	*****	<0.0021	19	0	01/07	GR
01034 1 0 PERMIT Effluent Gross REQUIREM		ea Stee	7-9-2		100	0.2 DAILY NX	mg/L	W.	Weekty	GRAB
Copper, total (as Cu) SAMPLE MEASUREM	******	*****	*****	*****	*****	0.015	19	0	01/07	GR
01042 1 0 PERMIT Elfluent Gross REQUIREM	200278	400000		300000	900.000	0.071 DAILY MX	mg/L	44.8	Weekly	GRAB
Zinc, total (as Zn) SAMPLE MEASUREM	******	*****	*****	*****	<0.003	0.006	19	0	01/07	GR
01092 1 0 PERMIT Effluent Gross REQUIREM		.000000	900300	*****	213 30DA AVG	433 DAILY MX	mg/L		Weekly	GRAB
	alty of law that this docume rision in accordance with a					TE	EPHONE		DATE	
Benjamin P. Yournan who manage the	d evalute the information su system, or those persons di	ibmitted. Based on my i rectly responsible for gat	inquiry of the pe thering the infor	son or persons	BIGNATURE OF THE	NCIPLE 815	406-3700		09/25/2012	
Plant Manager aware that there a	information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am ant Manager aware that there are significant penalties for submitting false information, including the possibility of line and imprisionment for knowing violations.				EXECUTIVE OFFICER OR		NUMBER		MW/DD/YYYY	
TYPED ON PRINTED INTO BY BITCH BY VICENTIAN OF ANY V					AUTHORIZED AG	SENT CODE	NUMBER			

		DRESS

NAME Exelon Generation Co., LLC ADDRESS 4300 Winfield Road

ADDRESS 4300 Winfield Road Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
4450 North German Church Road
Byron, IL 61010

FROM

IL0048313	001-0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

MM/DD/YYYY

08/01/2012

TO

08/31/2012

DMR Mailing ZIP CODE:

61010

MAJOR (SUBR 01)

CS

COOLING SYSTEM BLOWDOWN

External Outfall

··· NO DISCHARGE

		QUAN	TITY OR LOADING	3	C	MANTITY OR CON	ICENTRATIO	N		NO.	FREQUENCY	SAMPLE
PARAMETER	$\nearrow\searrow$	VALUE	VALUE	UNITS	VALUE	VALUE	VALUE		UNITS	EX.	OF ANALYSIS	TYPE
Oxidants, total residual	SAMPLE MEASUREMENT	******	*****	*****	******	*****	0.05		19	0	01/07	GR
34044 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	******		0.0000	000000	.05 DAILY N	A X	mg/L		Weekly	GRAB
Priority pollutants total effluent	SAMPLE MEASUREMENT	*****			*****	*****					500	
50008 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	Req. Mon. DAILY MX	ib/d	***************************************	*******	Req. Mo DAILY N		mg/L		Weekly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	18.82	28.92	3	******	*****	*****		*****	0	01/01	CN
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	MgaVd	dent.	eserda	# # # # # # # # # # # # # # # # # # #		******	7.	Daily	CONTIN
Chlorine, total residual	SAMPLE MEASUREMENT	*****	******	*****	*****	*****					500	
50060 1 0 Effluent Gross	PERMIT REQUIREMENT		letopus,		926740	alcohe	.05 DAILY N		mg/L		Weekly	GRAB
Hydrazine	SAMPLE MEASUREMENT	*****	******	*****	*****						500	
81313 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	******	******	*****	.011 30DA AVG	.027 DAILY N		mg/L		Daily When Discharging	GRAB
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT						17 11 11					
NAME/TITLE	I certify under penalty of a direction or supervision in							TEL	EPHONE		DATE	
	properly gather and evalu who manage the system,	te the information sub	mitted. Based on my it	rquiry of the per	rson or persons	Smir-74	buman	815	406-3700		09/25/2012	 ?
Diant Manage	information submitted is,	to the best of my know	viedge and belief, true,	accurate, and c	complete. I am	IGNATURE OF PR		AREA		-		
	aware that there are sign fine and imprisionment to		bmitting false information	on, including the	possibility of	AUTHORIZED A		CODE	NUMBER		MM/DD/YY	Y
COMMENTS AND EXPLANATI			all attachments h	ere)	k	AU INUNIZED AI	JEN I	CODE		L		··········
EPA Form 3320-1 (Rev 01/06) i	Previous editions ma	v be used.			····			_			1/8/2012	PAGE

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

Exelon Generation Co., LLC NAME

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY **Byron Nuclear Power Station** LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	
PERMIT NUMBER	

FROM

002-0	
DISCHARGE NUMBER	

•	MO	NITORING PERI	סס	
	MM/DD/YYYY		MM/DD/YYYY	
	08/01/2012	ΤΟ	08/31/2012	

DMR Mailing ZIP CODE:

61010

MAJOR (SUBR 01)

CS

STORMWATER RUNOFF BASIN

External Outfall

*** NO DISCHARGE X

04044FTD		QUANTITY OR LOADING		l a	QUANTITY OR CONCENTRATION				FREQUENCY	SAMPLE	
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****						
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	depost	especia	deseta	000000	15 30DA AVG	DAILY MX	mg/L		Weekly	GRAB
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	*****	*****	******	-					
00530 8 0 Other Treatment, Process Complete	PERMIT REQUIREMENT	nones.			***************************************	30 30DA AVG	100 DAILY MX	ing/L		Weekly	GRAB
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****						
01032 1 0 Effluent Gross	PERMIT REQUIREMENT	ousabe - c	en appear	######################################	elloce .	.011 30DA AVG	.016 DAILY MX	mg/L		Daily	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	******	*****	******						
01034 1 0 Effluent Gross	PERMIT REQUIREMENT	******	arrens	200000	*****	1 30DA AVG	2 DAILY NOX	mg/L		Daily	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	*****	*****	22222						
01042 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	90.000	*******	20000	.025 30DA AVG	DAILY MX	mg/L	***	Daily	GRAB
iron, total (as Fe)	SAMPLE MEASUREMENT	*****	*****	******	******	******					
01045 1 0 Effluent Gross	PERMIT REQUIREMENT	det in a	sseeda	in sales in a	with the same of	966.000	DAILYMX	mg/L	A. B. M. C.	Daily	GRAB
Lead, total (as Pb)	SAMPLE MEASUREMENT	*****	*****	*****	*****						
01051 1 0 Effluent Gross	PERMIT REQUIREMENT	*******	838 009) coome	and and a	.063 30DA AVG	298 DAILY MX	mg/L	A Figure	Daily	GRAB
NAME/ITTLE PRINCIPAL EXECUTIVE OFFICE	I certify under penalty of direction or supervision is				personnel			EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system information submitted is.	, or those persons din	ectly responsible for gat	hering the inform		IGNATURE OF PRI	NCIPLE 815	406-3700		09/25/2012	
Plant Manager	aware that there are sign	ificant penalties for su				EXECUTIVE OFFIC		NUMBER		MINDO COO	~
TYPED OR PRINTED	fine and imprisionment to	r knowing violations.				AUTHORIZED AC	SENT CODE	NUMBER		MM/DD/YYY	T

- 1. No Turbine Building Fire and Oil Sump or Generic Non-Chemical Metal Cleaning Wastewater was discharged this month.
- 2. No Fire Protection, Service Water or Closed Cooling System Drain Water was discharged this month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

ATTEE		

NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road

Warrenville, II 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron.	IL	61010	

IL0048313
PERMIT NUMBER

002-0 DISCHARGE NUMBER

MONIT	ORING PERI	OD	_
MM/DD/YYYY		MM/DD/YYYY	_
08/01/2012	то	08/31/2012	_

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01) CS

STORMWATER RUNOFF BASIN

External Outfail

*** NO DISCHARGE X ***

GADANETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				FREQUENCY	SAMPLE	
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	ANALYSIS	TYPE
Nickel, total (as Ni)	SAMPLE MEASUREMENT	*****	404747	*****	*****						
01067 1 0 Effluent Gross	PERMIT REQUIREMENT	******	*******	230,000	223000	.011 30DA AVG	176 DAILY MX	mg/L		Daily	GRAB
Zinc, total (as Zn)	SAMPLE MEASUREMENT	*****	paptet	*****	************						
01092 1 0 Effluent Gross	PERMIT REQUIREMENT	EGENES	ecofts	. 20000	20100	.047 , 30DA AVG	.26 DAILY MX	mg/L		Daily	GRAB
Oil and Grease	SAMPLE MEASUREMENT	*****	******	*****	*****		:				
03582 1 0 Effluent Gross	PERMIT REQUIREMENT	24.1400	***************************************	******	pastos	15 30DA AVG	20 DAILY MX	mg/L		When Discharging	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT				404400	******	*****	*****			
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req: Mon. 30DA AVG	Req. Mon. DAILY MX	MgaVd :	21240	*******	***************************************	******		When Discharging	ESTIMA
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	*						San San San			
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.							
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision is						1	TELEPHONE		DATE	
	properly gather and evaluation manage the system	or those persons dire	ctly responsible for gat	hering the infor	nation, the	SIGNATURE OF PR	NCIPLE 81	5 406-3700		09/25/2012	
Plant Manager	information submitted is, aware that there are sign	ificant penalties for su				EXECUTIVE OFFICE		EA NUMBER		MM/DD/YYY	
TYPED OR PROITED	fine and imprisionment fo	r knowing violations.			1	AUTHORIZED AC	GENT CO	DE	Ì	mayouttt	•

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- 1. This discharge point was not used this month.
- 2. There was no discharge of processed steam generator chemical cleaning wastewater during the month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

For Exelon Byron Station Permit IL0048313 August 2012 Page 1 of 3

MONITORING DATA:

MONITORING	CWBD		Dook Diver
DATE	Temperature	CWBD Flow mgd	Rock River Flow
	deg F	ınga	cfs
08/01/2012	100.0	19.82	1,900
08/02/2012	100.0	21.62	1,890
08/03/2012	101.0	20.67	1,840
08/04/2012	101.0	28.92	1,890
08/05/2012	100.0	21.11	1,890
08/06/2012	98.3	13.43	1,820
08/07/2012	100.0	22.51	1,840
08/08/2012	100.0	9.30	1,830
08/09/2012	98.5	17.04	1,860
08/10/2012	95.6	16.07	1,900
08/11/2012	97.3	17.09	1,820
08/12/2012	97.3	15.25	1,840
08/13/2012	95.5	14.28	1,860
08/14/2012	96.3	22.12	1,830
08/15/2012	100.0	19.58	1,850
08/16/2012	100.0	24.91	1,890
08/17/2012	98.9	18.27	1,910
08/18/2012	98.1	27.19	1,810
08/19/2012	95.2	22.86	1,830
08/20/2012	94.4	16.50	1,820
08/21/2012	95.5	19.79	1,790
08/22/2012	97.1	16.71	1,800
08/23/2012	97.1	17.08	1,760
08/24/2012	96.6	17.76	1,760
08/25/2012	99.8	15.95	1,680
08/26/2012	97.8	18.62	1,660
08/27/2012	97.1	13.46	1,690
08/28/2012	99.5	22.30	1,590
08/29/2012	98.5	17.98	1,600
08/30/2012	101.0	17.03	1,630
08/31/2012	102.0	18.14	1,550

For Exelon Byron Station Permit IL0048313 August 2012 Page 2 of 3

HYDRAZINE MONITORING:

There were no steam generator chemical cleaning solutions (or associated rinses) containing hydrazine discharged to the Cooling System Blowdown during the month of August 2012.

TOTAL QUANTITY DISCHARGED: N/A

TOTAL DURATION OF DISCHARGE: N/A

COMMENTS:

- 1. Sodium Hypochlorite and Bromine compounds were used this month.
- 2. There was no discharge of steam generator chemical cleaning wastewater containing hydrazine in this month.
- 3. Flow existed through this outfall 31 of 31 days.
- 4. Per Special Condition 24 the influent from the Rock River and effluent from Outfall 001-0 was monitored for Total Suspended Solids (TSS) this month. The Rock River TSS value was 37.0 mg/L on 08/06/2012. The CWBD TSS value was 12.0 mg/L on 08/06/2012.
- 5. Rock River flow was <2400 cfs in August 2012 therefore daily temperature calculations were required during this time period. (Special Condition 12). Per Special Condition 12, in the event the Rock River flow is <2,400 cfs, daily calculations will be undertaken to demonstrate compliance with the water quality standard. The calculations are based on hourly measurements, averaged over a 24-hour calendar day for Rock River flow, main Rock River temperature, CW Blowdown flow, and CW Blowdown temperature values. Results of the calculations shall be reported in the DMR on a monthly basis. Calculation results are in the table on the following page.</p>
- 6. There was no discharge of the 126 Priority Pollutants from cooling tower maintenance chemicals in August 2012. (Special Condition 15).

For Exelon Byron Station Permit IL0048313 August 2012 Page 3 of 3

Date	Average	Average	Average	Average	Calculated	Water Quality
	Rock	CW MU	CW	CW	Temperature	Standard
	River	Temperature	Blowdown	Blowdown	at edge of	Temperature
	Flow	(F)	Flow	Temperature	mixing zone	(F)
	(cfs)		(gpm)	(F)	(F)	
8/01/12	1910	78	15492	97	79.0	90
8/02/12	1892	79	15386	99	80.0	90
8/03/12	1848	80	15255	100	80.4	90
8/04/12	1867	80	15531	100	81.2	90
8/05/12	1939	79	14197	97	79.3	90
8/06/12	1820	77	10402	96	77.4	90
8/07/12	1840	77	11936	98	77.5	90
8/08/12	1818	76	12105	97	76.9	90
8/09/12	1863	73	12130	95	73.9	90
8/10/12	1889	71	12022	92	71.7	90
8/11/12	1828	71	7827	91	71.4	90
8/12/12	1845	70	12257	93	70.8	90
8/13/12	1850	69	14858	94	70.3	90
8/14/12	1828	69	14927	97	70.6	90
8/15/12	1849	73	14998	99	73.7	90
8/16/12	1881	73	15125	98	73.6	90
8/17/12	1914	69	15320	93	70.2	90
8/18/12	1800	71	15278	94	71.8	90
8/19/12	1831	70	15283	94	70.9	90
8/20/12	1821	69	13557	94	70.3	90
8/21/12	1790	71	14433	93	71.7	90
8/22/12	1799	71	12377	94	71.6	90
8/23/12	1768	72	12491	96	73.1	90
8/24/12	1765	74	8394	97	74.5	90
8/25/12	1691	74	12515	98	75.2	90
8/26/12	1654	74	12906	97	74.9	90
8/27/12	1695	73	13512	97	74.1	90
8/28/12	1590	74	14901	97	75.5	90
8/29/12	1603	75	12747	96	75.5	90
8/30/12	1628	75	12720	97	75.9	90
8/31/12	1555	75	11960	100	76.4	90



Exelon Generation Company, LLC Byron Station 4450 North German Church Road Byron, IL 61010-9794 www.exeloncorp.com

Nuclear

October 16, 2012

LTR: BYRON 2012-0112

File: 2.09.0411 1.10.0101

Illinois Environmental Protection Agency Water Pollution Control Compliance Assurance Section #19 1021 North Grand Avenue East P.O. Box 19276 Springfield, IL 62794-9276

Subject:

Byron Station Monthly Discharge Monitoring Report

In accordance with National Pollutant Discharge Elimination System (NPDES) Permit Number IL0048313, issued January 24, 2011, we are submitting the Discharge Monitoring Report for Byron Station, Units 1 and 2. This report covers the period of September 1, 2012 through September 30, 2012.

If there are any questions regarding this report, please contact Ms. Zoe Cox, Environmental/Radwaste Supervisor, at (815) 406-3035.

Respectfully,

Benjamin P. Youman

Plant Manager

Byron Nuclear Generating Station

BPY/ZC/eh Attachments

J. Gould – Environmental – Cantera (electronic) Z. Cox – Chemistry – Byron bcc:

	PEF	TIME	TEE	NA	MEJ	AD	DA	ESS
--	-----	------	-----	----	-----	----	----	-----

NAME

Exelon Generation Co., LLC 4300 Winfield Road

ADDRESS

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

 IL0048313
PERMIT NUMBER

FROM

A01-0 DISCHARGE NUMBER

MONITORING PERIOD						
MM/DD/YYYY		MM/DD/YYYY				
09/01/2012	то	09/30/2012				

DMR Mailing ZIP CODE:

MAJOR (SUBR 01)

CS

DEMINERALIZER REGENERATE WASTE (001A)

61010

External Outfall

... NO DISCHARGE

24244772		QUANTITY OR LOADING			QUANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE	
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	ANALYSIS	TYPE
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.71	<0.71	19	0	01/30	08
00530 1 0 Effluent Gross	PERMIT	E Pro	aten			30DA AVG	30 DAILY MX	mg/L		Monthly	COMP-8
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	******					500	
01032 1 0 Effluent Gross	PERMIT RECUIREMENT	903000	***************************************	B00000	Section 1	30DA AVG	2 DAILY MX	mort.		Daily	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	******					500	
01 034 1 0 Effluent Gross	REQUIREMENT	- 1	1		33	30DA AVG	2. DAJLY MX	mg/L	1	Daily	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01042 1 0 Effluent Gross	REQUIREMENT	No.	1	*		30DA AVQ	DAILY MX	-mg/L		Daily	GRAB
Iron, total (as Fe)	SAMPLE MEASUREMENT	*****	*****	******	*****	*****				500	
01045 1 0 Effluent Gross	REPAIT REQUIREMENT			rine.	avan.	111111	DAILY MX	mg/L	22.5	Daily	GRAB
Lead, Total (as Pb)	SAMPLE MEASUREMENT	*****	*****	*****	******					500	
01051 1 0 Effluent Gross	REGUIREMENT		Angle gegene , Par Angle State The Court	1		2 30DA AVG	DAILY MX	mg/L	345	Daily	GRAB
Nickel, total (as Ni)	SAMPLE MEASUREMENT	*****	*****	*****	******					500	
01067 1 0 Effluent Gross	REQUIREMENT	- gonnes		*****	-	30DA AVG	2 DAILY MX	mo/+		Daily	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICE	I certify under penalty of direction or supervision i						TI	ELEPHONE		DATE	
Benjamin P. Youman	properly gather and eval who manage the system information submitted is,	, or those persons din	ectly responsible for gat	hering the infor	nation, the	SM-P. C.S.		406-3700	10/16/2012		
Plant Manager	aware that there are sign	nificant penalties for su				EXECUTIVE OFFIC		ANUMBED			
TYPED OR PRINTED	Tine and imprisionment to	d imprisionment for knowing violations. AUTHORIZED AGENT CODE MM/DD/YYYY									

- 1. There was no discharge of processed steam generator chemical cleaning wastewater during this month.
- 2. Flow existed 30 of 30 days during this month.

EP.	A Form	3320-	1 (Rev 01/06)	Previous e	editions may	be used.

1/6/2012

			Į.	NATIONAL POLI	LUTANT DI	SCHARGE ELIM	IINATION SYSTE	EM (NPDES)				
				DIS	CHARGE	MONITORING R	EPORT (DMR)		DMR Mailir	ng ZIP C	ODE:	61010
PERMITTEE	NAME/ADDRE	SS							MAJOR			
NAME	Exelon Genera	-			48313		A01-0		(SUBR 01)		CS	
ADDRESS	4300 Winfield		·	PERMIT	NUMBER		DISCHARGE NUM	ABER				
	Warrenville, iL	. 60555-5701				ONITORING PERIO	<u></u>				REGENERATE W	ASTE (001A)
FACILITY	Duran Nuclean	Power Station		MARA/IDI	D/YYYY	UNITORING PERIC	MM/DD/YYY	,	External O	uan		
LOCATION	•	erman Church Road	FROM		/2012	{ то}	09/30/2012		••	· NO DI	SCHARGE]
LOCATION	Byron, IL 610		rnom							,,,,		i
ATTN: Zoa	Cox/ENV SPEC											
			QUA	NTITY OR LOADING	G	0	UANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
PAI	RAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
Zinc, Total (as Zn)		SAMPLE MEASUREMENT	*****	917444	*****	*****					500	
01092 1 0 Effluent Gro		REQUIREMENT.	772.32	***************************************	PIN.	de ryses	30DA AVG	PAILY MX	mg/L	19	Daily	GRAB
Flow, in con treatment pl		SAMPLE MEASUREMENT	0.057	0.243	3	*****	*****	204449	******	0	01/01	ES
50050 1 0 Effluent Gro	SS	PERMIT BEQUIREMENT	Reg. Mon. 30DA AVG	Req. Mon. PAILY MX	Mosted	erspee:	190000	4/11/14	******	,	Daily	CONTIN
		SAMPLE MEASUREMENT										
		PERMIT	المراجعة والمواد		100000	September 1986	A CONTROL OF THE CONT	entral de la companya de la companya de la companya de la companya de la companya de la companya de la company La companya de la companya de la companya de la companya de la companya de la companya de la companya de la co				
		SAMPLE MEASUREMENT										
<u> </u> 		PERMIT	124		1 6 6 h			San San San San San San San San San San		14 11 12 12 12 12 13 12 14 12 16 12 16 12 16 12 16 12 16 12 16 12 16 12 16 12 16 12 16 12 16 16 16 16 16 16 16 16 16 16 16 16 16 1		
		SAMPLE MEASUREMENT										
		PERMIT REQUIREMENT		The Control of the						14.5		
		SAMPLE MEASUREMENT										
		REQUIREMENT			4		14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	en en en en en en en en en en en en en e		e je . 2		
		SAMPLE MEASUREMENT										
1		DEDUIT'.			L ·							1

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

line and imprisionment for knowing violations.

1. Flows for September 2012 are estimated based on July 2012 values due to totalizers being Out of Service. The totalizers are an obsolete model and work orders are in place to find replacement totalizers and get them installed in the system.

I certify under penalty of law that this document and all attachments were prepared under my

direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evalute the information submitted. Based on my inquiry of the person or persons

who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of

EPA Form 3320-1	(Rev 01/06) Previous editions may	be used.
-----------------	------------	-------------------------	----------

NAME/TITLE

PRINCIPAL EXECUTIVE OFFICER

Benjamin P. Youman

Plant Manager

TYPED OR PRINTED

1/6/2012

DATE

10/16/2012

MM/DD/YYYY

TELEPHONE

815 406-3700

NUMBER

AREA

CODE

SIGNATURE OF PRINCIPLE

EXECUTIVE OFFICER OR

AUTHORIZED AGENT

NATIONAL POLLUTANT

HARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

				•
DMR	Mailing	ZIP	CODE:	

CS

61010

PERMITTEE NAME/ADDRESS

NAME ADDRESS

FACILITY

Exelon Generation Co., LLC

Warrenville, IL 60555-5701

4300 Winfield Road

IL0048313 PERMIT NUMBER

MM/DD/YYYY

09/01/2012

FROM

B01-0 DISCHARGE NUMBER

MM/DD/YYYY

09/30/2012

STP PLANT EFFLUENT (FORMER 001B) External Outfail

MAJOR

(SUBR 01)

*** NO DISCHARGE

1/6/2012

PAGE 1

Byron Nuclear Power Station LOCATION 4450 North German Church Road

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

Byron, IL 61010

ATTN: Zoe Cox/ENV SPEC FREQUENCY **QUANTITY OR LOADING** QUANTITY OR CONCENTRATION SAMPLE NO. OF PARAMETER TYPE EX UNITS VALUE VALUE VALUE UNITS VALUE VALUE ANALYSIS SAMPLE BOD, 5-Day ***** 26 29.0 50.0 19 ٥ 02/30 24 2.14 3.76 MEASUREMENT (20 Deg. C) 60 : 10.5 30. 00310 1 0 PERMIT ! 5.3 120000 mg/L Twice Per Month COMP24 DAILY MX DAILY MX **BEQUIREMENT** 30DA AVG Effluent Gross 30DA AVG SAMPLE 7.85 12 ٥ 02/30 GR ЬΗ 7.69 MEASUREMENT 00400 1 0 RERMIT 11272 SU . Twice Rer Month GRAB MAXIMUM BEQUIREMENT Effluent Gross SAMPLE 29.5 19 ٥ 02/30 2.22 26 15.7 Solids, total suspended 1.21 MEASUREMENT 00530 1 0 PERMIT 5.3 10.5 30 60 DQ. COMP24 mg/L Twice Per Month DAILY MX DAILY MX **30DA AVG** Effluent Gross REQUIREMENT 30DA AVG Flow, in conduit or thru SAMPLE 0.008 0.014 3 -----01/01 CN treatment plant MEASUREMENT Req. Mon. PERMIT ... 50050 1 0 Req. Mon. eichte s Daily : CONTIN Effluent Gross BEQUIREMENT 30DA AVG DAILY MX SAMPLE MEASUREMENT PERMIT again gar galaireach. Tagainn an ann an an REQUIREMENT. SAMPLE MEASUREMENT REQUIREMENT SAMPLE MEASUREMENT RERMIT 4 4. NAME/ITTLE certify under penalty of law that this document and all attachments were prepared under my TELEPHONE DATE PRINCIPAL EXECUTIVE OFFICER direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evalute the information submitted. Based on my inquiry of the person or persons Bonn Pl burg 406-3700 815 Benjamin P. Youman who manage the system, or those persons directly responsible for gathering the information, the 10/16/2012 SIGNATURE OF PRINCIPLE information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of **EXECUTIVE OFFICER OR** Plant Manager AREA NUMBER MM/DD/YYYY fine and imprisionment for knowing violations. TYPED OR PRINTED **AUTHORIZED AGENT** CODE COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) 1. Flow existed through this outfall 28 of 30 days during this month.

MONITORING PERIOD

TO

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	
120040313	
PERMIT NUMBER	

MM/DD/YYYY

09/01/2012

FROM

C01-0 DISCHARGE NUMBER

MONITO	RING	PERIOD		
			MM/DD/YYYY	
	T-0		00/20/2012	

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01)

CS

WWTP (FORMER 001C) External Outfall

*** NO DISCHARGE

PARAMETER		QUAN	ITITY OR LOADING	G		QUANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	ANALYSIS	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	*****	******	*****	*****	2.4	2.9	19	0	02/30	24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT					15 30DA AVG	30 DAILY MX	mg∕L		Twice Per Month	COMP24
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	******	******	•••••	*****					500	
01032 1 0 Effluent Gross	PERMIT REQUIREMENT	gigrep	2 efects	FFFEF	* aline	.1 30DA AVG	.2 DAILY MX	mg/j_		, Daily	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	******	*****	*****					500	
01034 1 0 Effluent Gross	REQUIREMENT		Active Co.	s-97W		30DA AVG	DAILY MX	r mg/L		Daily	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	******	*****	*****	*****					500	
01042 1 0 Effluent Gross	REQUIREMENT	1	- green	Page 64		30DA AVG	DAILY MX	me/L	، يُحْدِّ رَفِقٍ :	Daily	GRAB
iron, total (as Fe)	SAMPLE MEASUREMENT	*****	******	4****	*****	*****				500	
01045 1 0 Effluent Gross	PERMIT REQUIREMENT			9949		September 1	DAILY MX	mg/L		- Daily	GFAB
Lead, total (as Pb)	SAMPLE MEASUREMENT	*****	******	*****	*****					500	
01051 1 0 Effluent Gross	PERMIT		A CONTRACTOR OF THE PARTY OF TH	AND THE MENT	- 1999 - 1999	30PA AVG	DAILY MX	mg/L ,		Paily	GRAB
Nickel, total (as Ni)	SAMPLE MEASUREMENT	*****	*****	*****	200400					500	
01067 1 0 Effluent Gross	PERMIT REQUIREMENT	11014		77.7	39eelle	3QDA AVG	DAILY MX	mg/L		Daily	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision i						TE	LEPHONE		DATE	
Benjamin P. Youman	properly gather and eval who manage the system	ute the information sub , or those persons dire	omitted. Based on my in city responsible for gat	nquiry of the per hering the inform	son or persons nation, the	SIGNATURE OF PE		406-3700		10/16/2012	
Plant Manager	information submitted is, aware that there are sign fine and imprisionment to	rificant penalties for su				EXECUTIVE OFFIC	ER OR AREA	NUMBER		MM/DD/YYY	
TYPED OR PRINTED	ing and authorographic it	or resource value of the				AUTHORIZED A	GENT CODE		L		

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- 1. There was no discharge of processed steam generator chemical cleaning wastewater during this month.
- 2. Flow existed through this outfall 19 of 30 days during the month.

EPA Form 3320-1	(Rev 01/06) Pre	evious editions may be used.
-----------------	-----------------	------------------------------

1/6/2012

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY **Byron Nuclear Power Station** LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313 PERMIT NUMBER

MM/DD/YY

FROM

C01-0 DISCHARGE NUMBER

MONITORING PERIOD							
AM/DD/YYYY		MM/DD/YYYY					
09/01/2012	то	09/30/2012					

DMR Mailing ZIP CODE:

MAJOR

(SUBR 01)

CS

WWTP (FORMER 001C)

External Outfail

... NO DISCHARGE

61010

ATTN: Zoe Cox/ENV SPEC FREQUENCY QUANTITY OR LOADING QUANTITY OR CONCENTRATION NO. SAMPLE PARAMETER OF EX TYPE VALUE UNITS VALUE VALUE VALUE VALUE UNITS **ANALYSIS** Zinc, total SAMPLE ***** ***** 500 l(as Zn) MEASUREMENT 01092 1 0 PERMIT 2 **** ----mg/L Daily GRAB 30DA AVG DAILY MX Effluent Gross REQUIREMENT. Flow, in conduit or thru SAMPLE 3 0 01/01 CN 0.024 0.048 treatment plant MEASUREMENT 50050 1 0 PERMIT Req. Mon. Reg. Mon. ****** Daily CONTIN DAILY MX **Effluent Gross** REQUIREMENT 30DA AVG SAMPLE MEASUREMENT PERMIT · ica 1. REQUIREMENT SAMPLE MEASUREMENT PERMIT 494 . A. 187. REQUIREMENT. SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT RERMIT A REQUIREMENT SAMPLE MEASUREMENT RERMIT NAME/TITLE I certify under penalty of law that this document and all attachments were prepared under my TELEPHONE DATE PRINCIPAL EXECUTIVE OFFICER direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evalute the information submitted. Based on my inquiry of the person or persons Bonn P. Cherro B15 406-3700 Benjamin P. Youman 10/16/2012 who manage the system, or those persons directly responsible for gathering the information, the SIGNATURE OF PRINCIPLE information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am Plant Manager aware that there are significant penalties for submitting latse information, including the possibility of **EXECUTIVE OFFICER OR** AREA NUMBER MM/DD/YYYY fine and imprisionment for knowing violations. TYPED OR PRINTED **AUTHORIZED AGENT** CODE COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) 1/6/2012 EPA Form 3320-1 (Rev 01/06) Previous editions may be used. PAGE 2

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC **ADDRESS** 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

FROM

09/01/2012

Byron, IL 61010

IL0048313	D01-0
PERMIT NUMBER	DISCHARGE NUMBER

TO

MONITOR	ING PERIOD
MM/DD/YYYY	MM/DD/YYYY

09/30/2012

DMR Mailing ZIP CODE:

MAJOR (SUBR 01)

CS

61010

RADWASTE TREATMENT (FORMER 001D) External Outfall

... NO DISCHARGE

DADAMETER		QUA	NTITY OR LOADIN	G	•	DUANTITY OR CON	CENTRATION	1		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE		UNITS	EX	OF ANALYSIS	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	*****	******	*****	*****	1.2	1.4		19	0	02/30	CP
0530 1 0 Effluent Gross	PERMIT	THE STATE OF	******	\$2000 m		15 30DA AVG	30 DAILY M	x	mg/L		Twice Per Month	COMPOS
low, in conduit or thru reatment plant	SAMPLE MEASUREMENT	0.026	0.045	3	******	*****	*****			0	01/01	CN
60050 1 0 Effluent Gross	PERMIT REQUIREMENT	Figg. Mon.	Req. Man.	Mgal/d	and the second	*******	******		499944	Si	Daily	CONTIN
	SAMPLE MEASUREMENT											
	REQUIREMENT						SENS			A.		
	SAMPLE MEASUREMENT											
	PERMIT BEQUIREMENT				A Comment	2 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2						
	SAMPLE MEASUREMENT	<u> </u>	<u> </u>									
	BEQUIREMENT.	Water Service			1		1 1 de 1		in in	31 21		
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT					100 M 140	aprile o	165	Sig Asia			
	SAMPLE MEASUREMENT								-			
	PERMIT REQUIREMENT	AN CASE		5.33%						3.75		
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	direction or supervision i	n accordance with a s		re that qualified	personnel	• _		TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system information submitted is,	, or those persons din	actly responsible for gat	hering the inform	nation, the	HIGNATURE OF PER		815	406-3700		10/16/2012	
Plant Manager	aware that there are sign line and imprisionment to	nificant penalties for su	ubmitting false information	on, including the		EXECUTIVE OFFICE	ER OR	AREA	NUMBER		MM/DD/YYY	Y
	TON OF ANY VIOLA	70110 /7 /				AUTHORIZED A	DEN1	CODE				

PERMIT			

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

Byron Nuclear Power Station FACILITY **LOCATION** 4450 North German Church Road

Byron, IL 61010

IL0048313	
PERMIT NUMBER	

E01-0 DISCHARGE NUMBER

MONITO	RING PI	RIOD
MWDD/YYYY		MW/DD/YYYY
09/01/2012	το	09/30/2012

DMR Mailing ZIP CODE:

61010

MAJOR (SUBR 01)

CS

STORMWATER (FORMER 001E)

External Outfall

*** NO DISCHARGE

		QUAI	ITITY OR LOADING	G		QUANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	פדואט	VALUE	VALUE	VALUE	UNITS	EX	ANALYSIS	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
00530 1 0 Effluent Gross	PERMIT REQUIREMENT				A company	15 300A AVG	DAILY MX	mg/l	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	Weekly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	28.0	50.0	19	0	01/07	GR
00530 8 0 Other Treatment, Process Complete	REPUIT RECULIFIEMENT		THE STATE OF		APPER	OE DYA AGOE	DAILY NX	mgA	ing the second s	Weekly	GRAB
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	*****	***1**	*****	*****					500	
01032 1 0 Effluent Gross	PERMIT REQUIREMENT	egante.	* ******	*****	aggens	30DA AVG	,2 DAILY MX	mg/L		Daily	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01034 1 0 Effluent Gross	PERMIT BEQUIREMENT	- Agains	97999 Sec. 1989	\$14.55 5	***************************************	1 30DA AVG	DAILY MX	mg/L		Daily	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	******	******	*****					500	
01042 1 0 Effluent Gross	PERMIT :	Species .	***************************************			5 30DA AVG	DAILY MX	wo/r		Daily	GRAB
Iron, total (as Fe)	SAMPLE MEASUREMENT	*****	*****	*****	*****	******				500	
01045 1 0 Effluent Gross	PERMIT REQUIREMENT	\$ - Till	******			opens.	DAILY MX	mp/L		- Daily	GRAB
Lead, total (as Pb)	SAMPLE MEASUREMENT	*****	******	*****	*****					500	
01051 1 0 Effluent Gross	REPUT	994090	4	11.3	entit.	30DA AVQ	DAILY MX	, mg/L.	* `	Daily	GRAB
NAME/ITTLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision i	n accordance with a s	ystem designed to assu	re that qualified	personnel		j	LEPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system information submitted is.	, or those persons din	ectly responsible for gat	hering the Inform	nation, the	Brygon-P. C SIGNATORE OF PER		406-3700		10/16/2012	
Plant Manager	aware that there are sign fine and imprisionment for	nificant penalties for su				EXECUTIVE OFFIC	ER OR AREA	INUMBER		MM/DD/YYY	Y

- 1. There was no discharge of processed steam generator chemical cleaning wastewater during the month.
- 2. Flow existed through this outfall 16 of 30 days during the month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

FROM

PERMITTEE NAME/ADDRESS NAME Exelon Generation Co., LLC ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	E01-0
PERMIT NUMBER	DISCHARGE NUMBER

DISCHARGE NUMBER	
	_
 DISOTANGE NOMBEN	_

_ M	ONITORING	PERIOD
MM/DD/YYYY		MM/DD/YYYY
09/01/2012	то	09/30/2012

DMR Mailing ZIP CODE:

61010

MAJOR (SUBR 01)

CS

STORMWATER (FORMER 001E)

External Outfali

*** NO DISCHARGE

		QUAN	ITITY OR LOADING	G		QUANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
Nickel, total (as Ni)	SAMPLE MEASUREMENT	******	******	******	*****					500	
01067 1 0 Effluent Gross	BERMIT REQUIREMENT	70000			-	1 30DA AVG	DAILY MX	mg/L		Daily	GRAB
Zinc, total (as Zn)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01092 1 0 Effluent Gross	PERMIT REQUIREMENT	on fr ances (ff Statistical entit	eposes	90000	14. 17.000	30DA AVG	DAILY NOX	mβ√r ′		Daily	GRAB
Flow, in conduit or thru reatment plant	SAMPLE MEASUREMENT	0.530	0.967	3	*****	******	*****	******	0	02/30	; CN
50050 1 0 Effluent Gross	REQUIREMENT	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	Moald	and the same	1	**************************************	211177	*	Twice Per Month	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			£					- 12 Marie 1	
	SAMPLE MEASUREMENT										
	REQUIREMENT								No.		î., x
-	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT			12.5							
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT						The Control of the Co		3 -1(-2)		•
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision i	law that this documen					TE	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation who manage the system	ute the information sub , or those persons dire	omitted. Based on my in actly responsible for gat	nquiry of the per hering the inform	rson or persons ration, the	Bonno Ch		406-3700		10/16/2012	
	information submitted is, aware that there are sign	hificant penalties for su				SIGNATURE OF PRI EXECUTIVE OFFICE					
TYPED OR PRINTED	fine and imprisionment fo	or knowing violations.			1	AUTHORIZED AC		NUMBER	ļ	MW/DD/YYY	Y

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- 1. No Closed Cooling System Drain Water was discharged this month.
- 2. Fire Protection and Service Water System drain water was discharged this month.
- 3. No Turbine Building Fire and Oil Sump or Generic Non-Chemical Cleaning wastewater was discharged this month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

PERMITTEE	NAME/ADDRESS
-----------	--------------

NAME

Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY

Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

	IL0048313		001-0
	PERMIT NUMBER	7	DISCHARGE NUMBER
	<i>.</i>		
Г	MONI	TORING PI	ERIOD
F	MM/DD/YYYY	TORING PI	ERIOD MM/DD/YYYY

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01)

COOLING SYSTEM BLOWDOWN

CS

External Outfall

... NO DISCHARGE

PARAMETER		QUA	TITY OR LOADING	3		QUANTITY OR CON	CENTRATIO	N		NO.	FREQUENCY	SAMPLE
		VALUE	VALUE	צדואט	VALUE	VALUE	VALU	E	UNITS	EX	ANALYSIS	TYPE
Temperature, water deg. Fahrenheit	SAMPLE MEASUREMENT	*****	920114	*****	*****	*****	102.0		15	0	01/01	CN
00011 1 0 Effluent Gross	REPAIT REQUIREMENT	******	in wan	· pring	ange.	***********	Req. Mo. MA		deg F		Daily	CONTIN
pH	SAMPLE MEASUREMENT	*****	*****	*****	8.15	*****	8.60		12	0	01/07	GR
DO400 1 0 Effluent Gross	PERMIT REQUIREMENT	genera	†** pq a		MINIMUM 6	\$000Es	MAXIMI 9	īW	su		Weekly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	2.0	2.0		19	0	01/30	GR
00530 1 0 Efftuent Gross	PERMIT REQUIREMENT		*****		equagge A	Req. Mon. 30DA AVG	Req. Mc DAILY N		mg/L		Monthly	ĢRAB
Oil & Grease	SAMPLE MEASUREMENT	*****	*****	*****	*****	<3.1	7.0		19	0	01/07	GR
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	uga gipa	e di p <mark>ergop</mark> erani Maria di Santa	ati	*****	15 30DA AVG	20 DAILY N	ΛX	mō√į_		Weekly	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	*****	******	*****	******	<0.002	1	19	0	01/07	GR
01034 1 0 Effluent Gross	PERMIT REQUIREMENT	2 - 2 mag 848 2 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -	A 446098	******		*******	0.2 DAILY N	_	mg/L	2-36-2	Weekly	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	******	*****	*****	******	0.028		19	0	01/07	GR
01042 1 0 Effluent Gross	PERMIT REQUIREMENT	Lusten		eprie.	******	***********	0.071 DAILY N	(X)	mg/L	3	Weekly	4 GRAB
Zinc, total (as Zn)	SAMPLE MEASUREMENT	44***	*****	*****	*****	<0.0020	<0.002	0	19	0	01/07	GR
01092 1 0 Effluent Gross	PERMIT BEQUIREMENT	gennen.	分包装	7417	Se we	.213 30DA AVG	.433 DAILY N	AX	mg/L	12 1 N	Weekly	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision in							TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation who manage the system.	ite the information sul or those persons dire	omitted. Based on my in actly responsible for gath	nquiry of the per nering the inform	son or persons	VAMENT OF POWERS			406-3700		10/16/2012	
Plant Manager	information submitted is, to the best of my knowledge and belief, true, accurate, and comple aware that there are significant penalties for submitting false information, including the possi- line and imprisionment for knowing violations.								NUMBER		MM/DD/YYY	~
TYPED OR PRINTED						AUTHORIZED AG	ENT	CODE	11041521	<u> </u>		<u>. </u>
COMMENTS AND EXPLANAT 1. Monitoring data for outfall Of		•	au áttachments h	ere)								
EPA Form 3320-1 (Rev 01/06)	Provious aditions ma	uba waad									1/6/2012	PAGE

NATIONAL POLITITANT DISCHARGE ELIMINATION SYSTEM (NPDES)

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC **ADDRESS**

4300 Winfield Road Warrenville, IL 60555-5701

FACILITY **Byron Nuclear Power Station** LOCATION 4450 North German Church Road

TATIONAL I OLLO IAITI DIOGIATIGE ELIMINA	
DISCHARGE MONITORING REP	PORT (DMR)

IL0048313 001-0 PERMIT NUMBER DISCHARGE NUMBER

	MC	NITORING PERI	OD	
	MM/DD/YYYY		MM/DD/YYYY	
4	09/01/2012	то	09/30/2012	

DMR Malling ZIP CODE:

61010

MAJOR

(SUBR 01)

COOLING SYSTEM BLOWDOWN External Outfall

... NO DISCHARGE FROM Byron, IL 61010 ATTN: Zoe Cox/ENV SPEC QUANTITY OR LOADING QUANTITY OR CONCENTRATION FREQUENCY NO. SAMPI E PARAMETER OF VALUE VALUE UNITS VALUE VALUE VALUE UNITS EX TYPE ANALYSIS SAMPLE ***** Oxidants, total residual 0.04 01/07 19 0 GR MEASUREMENT 34044 1 0 RERMIT .05 mg4. 20000 KHE 14825 --.... Weekly **GRAB** REQUIREMENT DAILY MX Effluent Gross SAMPLE Priority pollutants total effluent 500 MEASUREMENT 50008 1 0 BERMIT Reg. Mon. Reg. Mon. --D/d ***** mo/L Weekly GRAB DAILY MX Effluent Gross REQUIREMENT DAILY MX Flow, in conduit or thru SAMPLE 3 ***** 15.77 24.29 0 01/01 CN treatment plant MEASUREMENT 50050 1 0 PERMIT Req. Mon. Reg. Mon. 161842 · 6. Mgald Seeses 378464 Daily CONTIN DAILY MX Effluent Gross REQUIREMENT 300A AVG SAMPLE ***** ***** Chlorine, total residual 500 MEASUREMENT PERMIT 50060 1 0 .05 . 1.4464 -C-1-1990009 Weekly GRAB mg/L Effluent Gross REQUIREMENT DAILY MX SAMPLE ***** ***** ***** Hvdrazine 500 MEASUREMENT 81313 1 0 PERMIT .011 .027 Daily When. GRAB mg/L Effluent Gross REQUIREMENT 30DA AVG DAILY MX Discharging SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT NAME/TITLE certify under penalty of law that this document and all attachments were prepared under my TELEPHONE DATE PRINCIPAL EXECUTIVE OFFICER direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evalute the information submitted. Based on my inquiry of the person or persons 815 406-3700 Benjamin P. Youman 10/16/2012 who manage the system, or those persons directly responsible for gathering the information, the SIGNATURE OF PRINCIPLE information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am Plant Manager **EXECUTIVE OFFICER OR** AREA aware that there are significant penalties for submitting talse information, including the possibility of NUMBER MM/DD/YYYY TYPED OR PRINTED **AUTHORIZED AGENT** CODE fine and imprisionment for knowing violations. COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) EPA Form 3320-1 (Rev 01/06) Previous editions may be used. 1/6/2012 PAGE 2

PERMITTEE NAME/ADDRESS

Exelon Generation Co., LLC NAME 4300 Winfield Road **ADDRESS**

Warrenville, IL 60555-5701

FACILITY **Byron Nuclear Power Station** 4450 North German Church Road LOCATION

Byron, IL 61010

IL0048313	002-0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD								
	MM/DD/YYYY		MM/DD/YYYY					
FROM	09/01/2012	TO	09/30/2012					

DMR Mailing ZIP CODE:

MAJOR (SUBR 01)

CS

STORMWATER RUNOFF BASIN

External Outfall

*** NO DISCHARGE

61010

ATTN: Zoe Cox/ENV SPEC FREQUENCY QUANTITY OR CONCENTRATION QUANTITY OR LOADING NO. SAMPLE OF **PARAMETER** TYPE EX VALUE -UNITS VALUE VALUE UNITS VALUE VALUE ANALYSIS SAMPLE ***** Solids, Total Suspended MEASUREMENT 00530 1 0 PERMIT 15 30 . Weekly GRAB mg/L DAILYMX BEQUIREMENT 30DA AVG Effluent Gross SAMPLE **** Solids, Total Suspended MEASUREMENT 00530 8 0 30 100 · · · RERMIT . Dobodie نين Weekly 🤌 GRAB ma4 Other Treatment, Process 30DA AVS DAILY MX REQUIREMENT Complete Chromium, hexavalent SAMPLE (as Cr) MEASUREMENT l01032 1 0 .011 .016 PERMIT & ageges . F. 2000 X 201412 24 4 BROOM Dally GRAB -mp/1 DAILY'MX Effluent Gross 30DA AVG. REQUIREMENT Chromium, total SAMPLE **** MEASUREMENT (as Cr) 01034 1 0 PERMIT **** 7244 mg/L Daily GRAB 30DA AVG Effluent Gross REQUIREMENT Copper, total SAMPLE **** (as Cu) MEASUREMENT PERMIT 01042 1 0 भामा<u>।</u> **,025** .041 - Daily THE PARTY mg/. **** 10000 GRAB Effluent Gross REQUIREMENT 30DA AVG iron, total SAMPLE ***** ***** (as Fe) MEASUREMENT 01045 1 0 * PERMIT 1 . -Mark Control 200 Daily GRAB mg/L. DAILY MX Effluent Gross REQUIREMENT Lead, total SAMPLE ***** (as Pb) MEASUREMENT 01051 1 0 PERMIT .063 mg/L Daily ***** Street, St. GRAB DAILY MX 30DA AVG Effluent Gross REQUIREMENT NAME/TITLE certify under penalty of law that this document and all attachments were prepared under my TELEPHONE DATE PRINCIPAL EXECUTIVE OFFICER direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evalute the information submitted. Based on my inquiry of the person or persons 815 406-3700 10/16/2012 Benjamin P. Youman who manage the system, or those persons directly responsible for pathering the information, the SIGNATURE OF PRINCIPLE information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am **EXECUTIVE OFFICER OR** aware that there are significant penalties for submitting talse information, including the possibility of Plant Manager AREA NUMBER MM/DD/YYYY fine and imprisionment for knowing violations. TYPED OR PRINTED **AUTHORIZED AGENT** CODE

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- 1. No Turbine Building Fire and Oil Sump or Generic Non-Chemical Metal Cleaning Wastewater was discharged this month.
- 2. No Fire Protection, Service Water or Closed Cooling System Drain Water was discharged this month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, Il 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	
PERMIT NUMBER	0

MM/DD/YYYY 09/01/2012

FROM

002-0	
DISCHARGE NUMBER	

	DICCH	ADOEA	UMBER	
•	ひしるしてい	AUGE N	OWDER	

MONITO	RING	PERIOD
		MM/DD/YYYY
	то	09/30/2012

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01)

STORMWATER RUNOFF BASIN

CS

External Outfall

... NO DISCHARGE X ...

PARAMETER		QUA	TITY OR LOADING	3		QUANTITY OR CON	CENTRATIO	N		NO.	FREQUENCY	SAMPLE
PANAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUI	E	UNITS	EX	ANALYSIS	TYPE
Nickel, total (as Ni)	SAMPLE MEASUREMENT	*****	******	*****	*****							
D1067 1 0 Effluent Gross	REQUIREMENT	7*****	******	77.77	Alle Sanger	.011 30DA AVG		ACK .	mg/L	11 to 17 to 18 to	Daily	GRAB
Zinc, total (as Zn)	SAMPLE MEASUREMENT	*****	*****	*****								
D1092 1 0 Effluent Gross	PERMIT BEQUIREMENT	Aiocho	910000	Shook	******	.047 30DA AVG	.26 DAILY N	ADX.	wð/r		Daily	GRAB
Oil and Grease	SAMPLE MEASUREMENT	*****	*****	*****	******							
D3582 1 0 Effluent Gross	PERMIT REQUIREMENT		december 4	1.53	4 18779	15 30DA AVG	20 DAILY N		ш8∕f-		When Discharging	GRAB
Flow, in conduit or thru reatment plant	SAMPLE MEASUREMENT				*****	*****	*****		*****			
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Req. Mon. 300A AVG	Req. Mon. DAILY MX	Mgakd	a distribute segment , militar nelle sek indiges in des	99,900	- 10 	•.	232004		When Discharging	ESTIMA
	SAMPLE MEASUREMENT								_			
	PERMIT BEQUIREMENT.		6 4 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	14 A				,			- TE - 1	
	SAMPLE MEASUREMENT		_									
	PERMIT PERMIT	ing Sangaran		Salar Juga Para			<u> </u>				jene s je	
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT			4						3,3		
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision is		t and all attachments w	ere prepared un				TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system	direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evalute the information submitted. Based on my inquiry of the person or pers who manage the system, or those persons directly responsible for gathering the information, the					benna-	815 406-370			10/16/2012	:
Plant Manager	information submitted is, aware that there are sign	ificant penalties for su				SIGNATORE OF CAL		AREA	A	 -		
TYPED OR PRINTED	fine and imprisionment to	or knowing violations.			j	AUTHORIZED AC		CODE	NUMBER	1	MM/DD/YYY	Y

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- 1. This discharge point was not used this month.
- 2. There was no discharge of processed steam generator chemical cleaning wastewater during the month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

For Exelon Byron Station Permit IE0048313

September 2012

Page 1 of 3

MONITORING DATA:

DATE	CWBD Temperature deg F	CWBD Flow mgd	Rock River Flow cfs
09/01/2012	102.0	21.42	1,440
09/02/2012	99.0	16.63	1,450
09/03/2012	101.0	10.50	1,520
09/04/2012	101.0	19.32	1,570
09/05/2012	101.0	11.26	1,620
09/06/2012	93.5	0.010	1,550
09/07/2012	n/a	0	1,570
09/08/2012	91.6	12.62	1,530
09/09/2012	91.6	19.17	1,580
09/10/2012	94.0	24.29	1,590
09/11/2012	96.1	17.98	1,580
09/12/2012	99.1	13.72	1,580
09/13/2012	99.1	13.23	1,480
09/14/2012	92.1	18.01	1,500
09/15/2012	92.1	16.78	1,500
09/16/2012	93.7	15.95	1,520
09/17/2012	93.7	14.51	1,540
09/18/2012	91.5	16.85	1,510
09/19/2012	86.5	14.65	1,560
09/20/2012	92.7	15.91	1,620
09/21/2012	88.5	16.02	1,410
09/22/2012	87.8	17.11	1,550
09/23/2012	85.2	18.36	1,640
09/24/2012	85.4	14.37	1,600
09/25/2012	91.6	18.47	1,510
09/26/2012	91.6	15.92	1,470
09/27/2012	89.6	15.97	1,590
09/28/2012	90.3	15.46	1,580
09/29/2012	91.0	18.10	1,480
09/30/2012	91.0	14.65	1,440

For Exelon Byron Station Permit IL0048313 September 2012 Page 2 of 3

HYDRAZINE MONITORING:

There were no steam generator chemical cleaning solutions (or associated rinses) containing hydrazine discharged to the Cooling System Blowdown during the month of September 2012.

TOTAL QUANTITY DISCHARGED: N/A

TOTAL DURATION OF DISCHARGE: N/A

COMMENTS:

- 1. Sodium Hypochlorite and Bromine compounds were used this month.
- 2. There was no discharge of steam generator chemical cleaning wastewater containing hydrazine in this month.
- 3. Flow existed through this outfall 29 of 30 days.
- 4. Per Special Condition 24 the influent from the Rock River and effluent from Outfall 001-0 was monitored for Total Suspended Solids (TSS) this month. The Rock River TSS value was 28.0 mg/L on 09/10/2012. The CWBD TSS value was 2.0 mg/L on 09/10/2012.
- 5. Rock River flow was <2400 cfs in September 2012 therefore daily temperature calculations were required during this time period. (Special Condition 12). Per Special Condition 12, in the event the Rock River flow is <2,400 cfs, daily calculations will be undertaken to demonstrate compliance with the water quality standard. The calculations are based on hourly measurements, averaged over a 24-hour calendar day for Rock River flow, main Rock River temperature, CW Blowdown flow, and CW Blowdown temperature values. Results of the calculations shall be reported in the DMR on a monthly basis. Calculation results are in the table on the following page.
- 6. There was no discharge of the 126 Priority Pollutants from cooling tower maintenance chemicals in September 2012. (Special Condition 15).

For Exelon Byron Station Permit IL0048313 September 2012 Page 3 of 3

Date	Average	Average	Average	Average	Calculated	Water Quality
	Rock	CW M/U	CW	CW	Temperature	Standard
	River	Temperature	Blowdown	Blowdown	at edge of	Temperature
	Flow	(F)	Flow	Temperature	mixing zone	(F)
	(cfs)		(gpm)	(F)	(F)	
9/01/12	1440	74	11971	97	75.2	90
9/02/12	1456	72	11983	99	73.4	90
9/03/12	1513	75	11971	100	75.6	90
9/04/12	1577	77	12038	101	77.9	90
9/05/12	1615	77	1658	96	77.5	90
9/06/12	1544	81	0	N/A	N/A	90
9/07/12	1570	80	1175	89	79.8	90
9/08/12	1531	75	14546	92	75.9	90
9/09/12	1571	73	14904	91	74.2	90
9/10/12	1593	74	15200	89	74.4	90
9/11/12	1577	73	11321	95	74.2	90
9/12/12	1578	75	10421	97	75.4	90
9/13/12	1487	73	10421	91	73.2	90
9/14/12	1508	69	11258	91	69.5	90
9/15/12	1498	71	11229	93	71.6	90
9/16/12	1521	71	11213	93	71.7	90
9/17/12	1538	70	11188	93	70.8	90
9/18/12	1518	68	11204	88	68.5	90
9/19/12	1557	65	11221	89	66.2	90
9/20/12	1621	66	11208	90	66.4	90
9/21/12	1417	64	11225	88	65.4	90
9/22/12	1537	61	11233	86	61.7	90
9/23/12	1633	60	11925	85	61.0	90
9/24/12	1609	58	11563	88	59.3	90
9/25/12	1516	60	11583	92	61.0	90
9/26/12	1472	62	11629	91	63.6	90
9/27/12	1574	61	11642	88	62.2	90
9/28/12	1586	60	11650	89	61.0	90
9/29/12	1487	61	10342	91	62.3	90
9/30/12	1450	62	12171	90	63.3	90

Exelon Generation Company, LLC Byron Station 4450 North German Church Road Byron, IL 61010-9794 www.exeloncorp.com

Nuclear

November 26, 2012

LTR:

BYRON 2012-0123

File:

2.09.0411

1.10.0101

Illinois Environmental Protection Agency Water Pollution Control Compliance Assurance Section #19 1021 North Grand Avenue East P.O. Box 19276 Springfield, IL 62794-9276

Subject:

Byron Station Monthly Discharge Monitoring Report

In accordance with National Pollutant Discharge Elimination System (NPDES) Permit Number IL0048313, issued January 24, 2011, we are submitting the Discharge Monitoring Report for Byron Station, Units 1 and 2. This report covers the period of October 1, 2012 through October 31, 2012.

On 10/06/2012 at 11:20 hours a leak was discovered on the piping for the temporary mechanical draft cooling tower equipment. The plastic pipe fractured and water flowed from the crack at an estimated 5,000 gallons per minute. The majority of the water was retained by sandbags and the leak was isolated at 11:27. Approximately 30,000 gallons overflowed the sandbags and entered Woodland Creek via storm water Outfall 003, East Station Area Runoff. Analysis results of a sample of the cooling tower water obtained prior to entering the storm water ditch are summarized in the following table:

рН	Copper (mg/L)	Zinc (mg/L)	Chromium (mg/L)
8.68	0.033	0.018	<0.0021

The remainder of the leaked water was pumped back into the Unit 2 Natural Draft Cooling Tower basin.

If there are any questions regarding this report, please contact Ms. Zoe Cox, Environmental/Radwaste Supervisor, at (815) 406-3035.

Respectfully,

Benjamin P. Youman

Plant Manager

Byron Nuclear Generating Station

man P. L. Berran

BPY/DS/eh Attachments bcc: Jennifer Gould - Environmental - Cantera (electronic)
Zoe Cox - Environmental - Byron

> Exelon Generation Co., LLC Warrenville, IL 60555-5701 4300 Winfield Road PERMITTEE NAME/ADDRESS ADDRESS NAME

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Roac Byron, it. 61010
--

A01-0	DISCHARGE NUMBER	MONITORING PERIOD	MIMDD/VYYY	10/31/2012
		RING		2
IL0048313	PERMIT NUMBER	MONITO	MM/DD/WW	10/01/2012
Щ.			_	FROM

DMR Mailing ZIP CODE: MAJOR

61010

છ (SUBR 01) External Outfall

DEMINERALIZER REGENERATE WASTE (001A)

••• NO DISCHARGE

ATTN: ZOB COX/ENV SPEC										EDECLIENCY	
PARAMETER		QUANT	TITY OR LOADING		o [QUANTITY OR CONCENTRATION	CENTRATION		ġ.	OF	SAMPLE
		VALUE	VALUE	STINO	VALUE	VALUE	VALUE	UNITS	EX	ANALYSIS	TYPE
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	5.7	8.8	. 61	0	01/30	80
00530 1 0 Effluent Gross	REQUIREMENT					30P 4VG	SW Y IVO	med		Author	\$ dMO3
Chromium, hexavalent	SAMPLE	*****	******	*****	*******					909	
(as Cr)	MEASUKEMEN	1		5			C				
Efftuent Gross	BEOURENE		はは、			SODA AVG	PAILY NX	TP94.) 	3	GRAB
Chromium, total	SAMPLE	******	*****	******	*****					200	
(as Cr)	MEASUREMENT										
01034 1 0 Effluent Gross	BEQUIREMENT					SODA AVG	F.DAILY.MX	Table 1		Air	GFAB
Copper, total	SAMPLE							1		8	
(as Cu)	MEASUREMENT									200	
01042 1 0	PERMIT -					2 30DA AVG	A SOAL Y NOTE	- mod		Aped	eppe.
Importation	SAMPLE	The state of the s		2000		No. of the Control of		_		1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A	
(as Fe)	MEASUREMENT									200	
01045 1 0	* COPERNIT		A STATE OF THE STA	A CALL	The same of	A - Made a		you.	٠	Daily	GRAR
Effluent Gross	REQUIREMENTS	というなど					JE DAULK MK.			*	l .
Lead, Total	SAMPLE	*****	*****	******	******					200	
(as ro)	MEASUREMENT								_		
01051 1 0 Effluent Gross	REQUIREMENT				L. William	30DA AVG	OALY MX	. mer		Daily	GRAB
Nickel, total	SAMPLE	******	******	******	******					oos	
(as Ni)	MEASUREMENT									3	
01067 1 0 Effluent Gross	REQUIREMENT	A				30DA AVG	DALYMX	mg/L		Daily	GFAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		law that this documen	t and all attachments w	one prepared und	lear my			TELEPHONE		DATE	
	unected of supervisors in extendence with a system designed to assure that quantity personned immediately and event great the information cultimitted. Recent on my immin of the person or persons	n accordance with a 5 ife the information suf	ystem designed to assu-	se user queened to	Serson services	?	<u> </u>	-			
Benjamin P. Youman	who manage the system, or those persons directly information submitted is, to the best of my incovided	t or those persons dire	acty responsible for gathering the information, the wideose and belief, the accurate, and complete, i am	hering the inform accurate, and co	1	SIGNATURE OF PRINCIPLE		815 406-3700 	·	11/19/2012	
Plant Manager	aware that there are significant penalties for submitting false information, including the possibility of	uficant penalties for su	bmitting false information	m, including the		EXECUTIVE OFFICER OR		AREA MIMBED		SOCOLOGIAM.	
TYPED OR PRENTED	time and empresonment for knowing violations.	or knowing violations.				AUTHORIZED AGENT		CODE			

PAGE 1

1/6/2012

There was no discharge of processed steam generator chemical cleaning wastewater during this month.
 Flow existed 25 of 31 days during this month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

10/31/2012

DEDA	ACTTEE	NAME	/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	A01-0					
PERMIT NUMBER	DISCHARGE NUMBER					
MONITOR	ING PERIOD					

10/01/2012

FROM

DMR Mailing ZIP CODE: 61010
MAJOR
(SUBR 01) CS

DEMINERALIZER REGENERATE WASTE (001A) External Outfall

*** NO DISCHARGE ...

1/6/2012

PARAMETER		QUAI	NTITY OR LOADING	G	(QUANTITY OR CON	CENTRATIO	N		NO. FREQUENCY		SAMPLE
PARABETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALU	E	UNITS	EX	ANALYSIS	TYPE
inc, Total as Zn)	SAMPLE MEASUREMENT	*****	*****	*****	*****						500	
1092 1 0 iffluent Gross	REQUIREMENT	ST.	7799	1000	i com	30DA AVG	DAILY N	/X	:: mg/L		Daily	GRAB
low, in conduit or thru eatment plant	SAMPLE MEASUREMENT	0.023	0.074	3	*****	*****	*****		*****	0	01/01	ES
0050 1 0 ffluent Gross	REQUISEMENT	Req Mon.	Req. Mon.	Mosto	Carry of		- 12				Daily	CONTIN
	SAMPLE MEASUREMENT											
	PERMIT					1.72						
_	SAMPLE MEASUREMENT PERMIT					<u> </u>	ļ <u></u>					
	BEQUIREMENT	400		212392			A self-val		72.16	30,00		
	MEASUREMENT RERMIT		and the second s	. ಬೆಕ್ ಬೆಂಗಾ ಕಿ.	**************************************	100 F 1910 (2017 B)		76 ∫ V	-	· .		
	BEQUIREMENT SAMPLE						****	130	抱装"拉 "。	` <u>.</u> ;		3 A
	MEASUREMENT PERMIT	Jan Janya	a a file same	Section 1		Tempo telebraio.	468 De.M		er of the second	3 John		
	SAMPLE		The state of the s			- Samuel & Carlo		N. Barrie	Silve St. St. Santa			1073597
	MEASUREMENT PERMIT REQUIREMENT			O A								
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision is	law that this documen	it and all attachments w	ere prepared un	nder my	**************************************			EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system information submitted is,	ute the information suf , or those persons din	britted. Based on my is actly responsible for gati	nquiry of the per hering the inform	rson or persons nation, the	SIGNATURE OF FR	MONTO	815	406-3700		11/19/2012	
	aware that there are sign fine and imprisionment to	lificant penalties for su				EXECUTIVE OFFICE	ER OR	AREA	INUMBER		MM/DD/YYY	Υ



DISCHARGE MONITORING REPORT (DMR)

11.0048313

10/01/2012

FROM

NATIONAL POLLUTANT DESARGE ELIMINATION SYSTEM (NPDES)

B01-0

10/31/2012

61010

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road Byron, IL 61010

PERMIT NUMBER	DISCHARGE NUMBER
MONITO	DRING PERIOD
MM/DD/YYYY	MM/DD/YYYY

TO

DMR Mailing ZIP CODE: MAJOR

(SUBR 01)

CS

STP PLANT EFFLUENT (FORMER 001B)

External Outfall

*** NO DISCHARGE

DADAMETED		QUAI	NTTY OR LOADIN	G		QUANTITY OR CON	CENTRATIO	N		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUI		UNITS	EX	OF ANALYSIS	TYPE
3OD, 5-Day 20 Deg. C)	SAMPLE MEASUREMENT	0.74	0.96	26	*****	16.0	23.0		19	0	02/30	24
00310 1 0 Effluent Gross	# REPMIT REQUIREMENT	30DA AVG	10.5 DAILYMX	× 100		30 30RA AVG	60 DAILY N		mg/L	365	Twice Rer Month	COMP24
Н	SAMPLE MEASUREMENT	*****	******	******	7.51	******	7.61		12	0	02/30	GR
00400 1 0 Effluent Gross	REQUIREMENT	J. 71.3		2011	MINIMUM		MAXIM		su		Twice Per Month	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	0.21	0.32	26	*****	4.3	7.8		19	0	02/30	24
00530 1 0 Effluent Gross	REQUIREMENT	5,3 30DA AVG	DAILY MX	Pvd C		30DA AVG	PAILY	X.	.mg/L		Twice Per Month	COMP24
low, in conduit or thru reatment plant	SAMPLE MEASUREMENT	0.006	0.009	3	*****	*****	*****		*****	0	01/01	CN
50050 1 0 Effluent Gross	PERMIT	Req Mon. 30DA: AVG.	Req. Mon.	Maka	prin.		2000		Hart		Daily	CONTIN
	SAMPLE MEASUREMENT											
	PERMIT	D. Hall		14333					-13	ر ا رسال سال		
	SAMPLE MEASUREMENT											
	BEQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT BEQUIREMENT			100						37.7°		₹4. 15.2063 €
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision i							_	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system information submitted is,	lute the information suf i, or those persons din	bmitted. Based on my i ectly responsible for gat	nquiry of the per hering the inform	son or persons	SIGNATURE OF PRI	non	815	406-3700		11/19/2012	-
Plant Manager	aware that there are sign	nificant penalties for su				EXECUTIVE OFFICE	CER OR	AREA	NUMBER		MM/DD/YYY	Υ
		_			l l	AUTHORIZED A	UEN I	CODE		l .		

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY **Byron Nuclear Power Station** LOCATION 4450 North German Church Road

Byron, IL 61010

C01-0
DISCHARGE NUMBER

	MONITORING PERIOD								
	MM/DD/YYYY .		MM/DD/YYYY						
FROM	10/01/2012	το	10/31/2012						

DMR Mailing ZIP CODE:

MAJOR

(SUBR 01)

CS

WWTP (FORMER 001C) External Outfall

*** NO DISCHARGE

61010

PARAMETER		QUAI	ITTY OR LOADING	G	9	DUANTITY OR CON	CENTRATION		NO.	FREQUENCY OF	SAMPLE
PAIDURETEN		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	BUNUS	EX	ANALYSIS	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****	9.4	9.7	19	0	02/30	24
00530 1 0 Effluent Gross	PERMIT REQUIREMENT.			Dalas.		3004 AVG	⇒ DAJLY MX >-	mg/L	ALL. Carre	Twice Per Month	COMP24
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	*****	*****	******	*****					500	
01032 1 0 Effluent Gross	REQUIREMENT.		A TOPPO TO			30DA AVG	DVITA WX	mg/L	1 g 1	Daily	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	820220	******	*****					500	
01034 1 0 Effluent Gross	REQUIREMENT		THE WAY	linn.	11111	+ 30DA AVG	DAILY MX	mg(L. i	*	Daily	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01042 1 0 Effluent Gross	PERMIT	THE STATE OF THE S			All many	SODA AVG	DAILY MX	.mg/L		Daily	GRAB
iron, total (as Fe)	SAMPLE MEASUREMENT	*****	******	*****	410000	*****				500	
01045 1 0 Effluent Gross	REQUIREMENT	7		1			DAILYMX	mp/L^	,-A.	Daily	GRAB
Lead, total (as Pb)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01051 1 0 Effluent Gross	PERMIT REQUIREMENT	ATT.	1	3713	The state of the s	30DA AVG	DAILY-MX	mg/l-		Daily	GRAB
Nickel, total (as Ni)	SAMPLE MEASUREMENT	*****	******	*****	*****					500	
01067 1 0 Effluent Gross	REQUIREMENT.	AUT I		1945 a	PIN	30DA AVG	PAILY MX	mg/L •		. Daily	GRAB
	I certify under penalty of direction or supervision is	n accordance with a s	ystem designed to assu	ne that qualified	personnel			EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation who manage the system, information submitted is,	, or those persons dire	ectly responsible for gat	hering the inform	nation the	IGNATURE OF RE	NCIPLE 815	406-3700		11/19/2012	
3	aware that there are sign fine and imprisionment to		bmitting false information	on, including the		EXECUTIVE OFFIC	ER OR AREA	NUMBER		MM/DD/YYY	 Y
TYPED OR PRINTED						AUTHORIZED AC	GENT CODE		1		

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- 1. There was no discharge of processed steam generator chemical cleaning wastewater during this month.
- 2. Flow existed through this outfall 14 of 31 days during the month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

3

		
PERMITTEE	NAME/AD	ORESS

NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FROM

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	C01-0
PERMIT NUMBER	DISCHARGE NUMBER
	<u> </u>

MONITORING PERIOD								
MM/DD/YYYY		MM/DD/YYYY						
10/01/2012	то	10/31/2012						

DMR Mailing ZIP CODE:

MAJOR

(SUBR 01)

WWTP (FORMER 001C)

External Outfall

··· NO DISCHARGE

CS

61010

ATTN: Zoe Cox/ENV SPEC FREQUENCY **QUANTITY OR LOADING QUANTITY OR CONCENTRATION** NO. SAMPLE **PARAMETER** OF EX TYPE VALUE VALUE UNITS VALUE VALUE UNITS VALUE **ANALYSIS** SAMPLE Zinc, total 500 (as Zn) MEASUREMENT 01092 1 0 PERMIT 2 Daily. **GRAB** mg/L DAILY MX Efftuent Gross REQUIREMENT Flow, in conduit or thru SAMPLE 3 0 01/01 CN 0.042 0.081 treatment plant MEASUREMENT 50050 1 0 PERMIT Reg. Mon. Reg. Mon. Daily: CONTIN DVA ACC Effluent Gross REQUIREMENT SAMPLE MEASUREMENT BERMIT A. REQUIREMENT SAMPLE MEASUREMENT RERMIT * REQUIREMENT SAMPLE MEASUREMENT RERMIT ... REQUIREMENT . SAMPLE MEASUREMENT PERMIT -REQUIREMENT SAMPLE MEASUREMENT PERMIT NAME/TITLE certify under penalty of law that this document and all attachments were prepared under my TELEPHONE DATE PRINCIPAL EXECUTIVE OFFICER direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evalute the information submitted. Based on my inquiry of the person or persons 815 406-3700 Benjamin P. Youman who manage the system, or those persons directly responsible for gathering the information, the 11/19/2012 SIGNATURE OF PHINCIPLE information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of EXECUTIVE OFFICER OR AREA Plant Manager NUMBER MM/DD/YYYY line and imprisionment for knowing violations. TYPED OR PRINTED **AUTHORIZED AGENT** CODE COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) EPA Form 3320-1 (Rev 01/06) Previous editions may be used. 1/6/2012 PAGE 2

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDR	

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY **Byron Nuclear Power Station** LOCATION 4450 North German Church Road

Byron,	ıL	61010
_,,	•	0.0.0

IL0048313	D01-0
PERMIT NUMBER	DISCHARGE NUMBER

	MONITORING PERIOD							
	MM/DD/YYYY		MM/DD/YYYY					
FROM	10/01/2012	TO	10/31/2012					

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01)

RADWASTE TREATMENT (FORMER 001D)

CS

External Outfall

*** NO DISCHARGE

	QUAL	NTITY OR LOADING	G	0	UANTITY OR CON	CENTRATIO	٧		NO.	FREQUENCY	SAMPLE
	VALUE	VALUE	UNITS	VALUE	VALUE	VALUE		UNITS	EX	ANALYSIS	TYPE
SAMPLE MEASUREMENT	*****	*****	*****	*****	<0.5	<0.5		19	0	02/30	CP
REQUIREMENT		19.711.6%		A TOTAL	30DA AVG	30 ZDAILY M	X.	me/-		Twice Per Month	СОМЬЮ
SAMPLE MEASUREMENT	0.025	0.044	3	*****	******	*****		*****	0	01/01	CN
REQUIREMENT	Req. Mon.	Peq. Man.	MoaVd	ALC: N		1. 111		9719		Daily	CONTI
SAMPLE MEASUREMENT											
PERMIT		150			20.00	****	3.4	24.20		Company of the Compan	
SAMPLE MEASUREMENT											
REQUIREMENTS			1000			(AT F)		Nac.		4.200	18.0
SAMPLE MEASUREMENT											
REQUIREMENT:	-700 - 3								32		
MEASUREMENT	3 1100		e de la constant		- come Nest división e	(we find the		<u> </u>		4-2	F. C.
SAMPLE							. P. E.		<u> </u>		
REPUIT	14.2				1111				() () () () () () () () () ()		
certify under penalty of	law that this documen	nt and all attachments we	ere prepared un	nder my			TEL	EPHONE		DATE	
direction or supervision is	n accordance with a s	ystem designed to assu	re that qualified	personnel							
direction or supervision is properly gather and evaluation manage the system information submitted is,	lute the information sul u. or those persons dire	bmitted. Based on my in actly responsible for oath	nquiry of the per hering the inform	rson or persons	Smarry C	Limo- NCIPLE	815	406-3700		11/19/2012	
	MEASUREMENT BEQUIREMENT SAMPLE MEASUREMENT BEQUIREMENT BEQUIREMENT BEQUIREMENT BEQUIREMENT BEQUIREMENT REQUIREMENT BEQUIREMENT RERWIT	SAMPLE MEASUREMENT BEQUIREMENT SAMPLE MEASUREMENT REQUIREMENT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT	SAMPLE MEASUREMENT BERNIT BERNIT SAMPLE MEASUREMENT PERMIT REQUIREMENT BEQUIREMENT PERMIT BEQUIREMENT PERMIT REQUIREMENT PERMIT REQUIREMENT REQUIREMENT REQUIREMENT PERMIT REQUIREMENT REQUIREMENT PERMIT REQUIREMENT	SAMPLE MEASUREMENT BERNIT BEQUIREMENT SAMPLE MEASUREMENT BEQUIREMENT SAMPLE MEASUREMENT PERMIT BEQUIREMENT BEQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT REQUIREMENT BEQUIREMENT REQUIREMENT BEQUIREMENT BEQUIREMENT REQUIREMENT BERNIT REQUIREMENT BERNIT REQUIREMENT BERNIT REQUIREMENT BERNIT REQUIREMENT BEQUIREMENT REQUIREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT REQUIREMENT BEQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT REQUIREMENT SAMPLE MEASUREMENT REQUIREMENT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT REQUIREMENT REQUIREMENT REQUIREMENT REQUIREMENT REQUIREMENT REQUIREMENT REQUIREMENT REQUIREMENT REQUIREMENT REQUIREMENT REQUIREMENT REQUIREMENT REQUIREMENT REQUIREMENT REQUIREMENT REQUIREMENT REQUIREMENT	SAMPLE MEASUREMENT BEQUIREMENT SAMPLE MEASUREMENT Req. Mon. Req. Mon. Req. Mon. Mos/d. SAMPLE MEASUREMENT SODA AVG. DAILY MX SAMPLE MEASUREMENT REQUIREMENT	SAMPLE MEASUREMENT BERMIT BEQUIREMENT SAMPLE MEASUREMENT O.025 O.044 3 PERMIT BEQUIREMENT SODA AVG DALLYM MASUREMENT SAMPLE MEASUREMENT PERMIT BEQUIREMENT SAMPLE MEASUREMENT BEQUIREMENT BEQUI	SAMPLE MEASUREMENT BERMIT BEQUIREMENT SAMPLE MEASUREMENT DODA AND DAILYM PERMIT Req. Mon. Req. Mon. DAILYM SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT RECUIREMENT AMPLE MEASUREMENT RERMIT REQUIREMENT SAMPLE MEASUREMENT REQUIREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT REQUIREMENT SAMPLE MEASUREMENT BERNIT BEQLIREMENT BEQLIREMENT BEQUIREMENT BEQU	SAMPLE MEASUREMENT BERNIT BERNIT BEQUIREMENT O.025 O.044 SAMPLE MEASUREMENT BEQUIREMENT BERNIT BEQUIREMENT BERNIT BEQUIREMENT BERNIT BEQUIREMENT BERNIT BEQUIREMENT BERNIT BEQUIREMENT BERNIT BEQUIREMENT BERNIT BEQUIREMENT BERNIT BEQUIREMENT BERNIT BEQUIREMENT BERNIT BEQUIREMENT BERNIT BEQUIREMENT BERNIT BEQUIREMENT BERNIT BEQUIREMENT BERNIT			

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	E01-0
PERMIT NUMBER	DISCHARGE NUMBER

	MON	ITORING PERIO	OD	
i	MM/DD/YYYY		MM/DD/YYYY	
FROM	10/01/2012	то	10/31/2012	

DMR Mailing ZIP CODE:

61010

MAJOR (SUBR 01)

CS

STORMWATER (FORMER 001E)

External Outfall

*** NO DISCHARGE ***

D4D444		QUAL	NTITY OR LOADING	G	0	NUANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
00530 1 0 Effluent Gross	PERMIT REQUIREMENT.		Property of the second			15 30DA AVG	* DAILY MX	mg/L	, ,	Weekly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	******	*****	29.4	48.1	19	0	01/07	GR
00530 8 0 Other Treatment, Process Complete	REQUIREMENT.					30PA AYA	100 DAILY NO	- mg/L		Weekly	GRAB
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	*****	200020	*****	*****					500	
01032 1 0 Effluent Gross	PERMIT REQUIREMENT			2332		- 30DA AVG	2 PALYMX	mg/L		Dally	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01034 1 0 Effluent Gross	REQUIREMENT	- 50		dia	ALC: NO.	4-300A AVG	DAILY MX	mg/l		Daily	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01042 1 0 Effluent Gross	REQUIREMENT	11-11-2	12 PF 53	- 144		30DA AVG *	A DAILY MX	mg/L	13.5	Dally	GRAB
Iron, total (as Fe)	SAMPLE MEASUREMENT	*****	*****	******	*****	*****				500	
01045 1 0 Effluent Gross	REQUIREMENT	SSEE STATE	and the state of t	*****	1900 A	Townson The	DAILY MX	mg/L	41.7	Daily	GRAB
Lead, total (as Pb)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01051 1 0 Effluent Gross	REQUIREMENT.					30DA AYG	DAILY MX	mg/L		Daily	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision is	n accordance with a s	ystem designed to assu	ne that qualified	personnei		TE	LEPHONE		DATE	
Benjamin P. Youman	who manage the system	operly gather and evaluate the information submitted. Based on my inquiry of the person or persons to manage the system, or those persons directly responsible for gathering the information, the sometimes better than the best of my knowledge and belief, true, accurate, and complete. I am							11/19/2012		
Plant Manager	aware that there are sign	uificant penatties for su			manager a war I	EXECUTIVE OFFIC		NUMBER		MM/DD/VVV	
TYPED OR PRINTED	fine and imprisionment fo	or knowing violations.				AUTHORIZED AGENT CODE NUMBER			MW/DD/YYYY		

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- 1. There was no discharge of processed steam generator chemical cleaning wastewater during the month.
- 2. Flow existed through this outfall 4 of 31 days during the month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.	1/6/2012 PAGE 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road Byron, IL 61010

IL0048313
PERMIT NUMBER

FROM

E01-0	
DISCHARGE NUMBER	

MONITO	RING PER	IOD	
MM/DD/YYYY		MM/DD/YYYY	
10/01/2012	то	10/31/2012	

DMR Mailing ZIP CODE:

MAJOR

(SUBR 01) CS

STORMWATER (FORMER 001E)

External Outfall

•	*	NO	DISCHARGE		•••
---	---	----	-----------	--	-----

61010

ATTN: Zoo Cov/EAN/ SPEC

PARAMETER		QUAI	NTTTY OR LOADING	G		QUANTITY OR CON	CENTRATION		NO.	NO. FREQUENCY	
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	ANALYSIS	TYPE
Nickel, total (as Ni)	SAMPLE MEASUREMENT	410444		*****	*****					500	
01067 1 0 Effluent Gross	REQUIREMENT			2000	The second second	30DA AVG	2 DAILY M	, mg/L		Daily	GRAB
Zinc, total as Zn)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01092 1 0 Effluent Gross	PERMIT REQUIREMENT -	(S. 10)	7		12.77	30DA AVG	PAILYM	c mg/l	3.4	Daily	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.219	0.358	3	*****	*****	*****	*****	0	02/30	CN
50050 1 0 Effluent Gross	REPUIT-	Req. Mon	Req. Mgn.	MoaVd	34 T	- 131 - 1	S. T.		ş (38%)	Twice Per Month	CONTIN
	SAMPLE MEASUREMENT										
	REQUIREMENT	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1									
	SAMPLE MEASUREMENT PERMIT		7	. (1)		ļ					
	REQUIREMENT	7		200	Yes to		400				
	MEASUREMENT	La la esta de la compansión de la compan		1 3 2 2 2 5	-2010	2. 18.	ن جن ن				
	REQUIREMENT .			10000			企业		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	MEASUREMENT	945.2				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
NAME/TITLE	REQUIREMENT	law that this documen	t and all attachments w	ere prepared ur	der my	Car Single		TELEPHONI	<u>.</u>	DATE	
PRINCIPAL EXECUTIVE OFFICEI Benjamin P. Yournan	direction or supervision in properly gather and evaluation manage the system	I certify under penalty of law that this document and all attachments were prepared under direction or supervision in accordance with a system designed to assure that qualified per properly gather and evalute the information submitted. Based on my inquiry of the person who manage the system, or those persons directly responsible for gathering the information information submitted is, to the best of my knowledge and belief, true, accurate, and comp		personnel rson or persons nation, the	personnel con or persons stion, the			XO	11/19/2012	.	
Plant Manager	aware that there are sign	nificant penalties for su				EXECUTIVE OFFICER OR APEA				MM/DD/YYYY	
TYPED OR PRINTED	The and mbisinguals	Ur MICHWING WOLLDONS.				AUTHORIZED AC	GENT 6	CODE NUMBI	-7	mm//w/TTT	•

- 1. No Closed Cooling System Drain Water was discharged this month.
- 2. Fire Protection and Service Water System drain water was discharged this month.
- 3. No Turbine Building Fire and Oil Sump or Generic Non-Chemical Cleaning wastewater was discharged this month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

PERMIT	TEE!	NAM		DRESS
--------	------	-----	--	-------

NAME

Exelon Generation Co., LLC

4300 Winfield Road ADDRESS

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313
PERMIT NUMBER

001-0 DISCHARGE NUMBER

MONITORING PERIOD							
MM/DD/YYYY		MM/DD/YYYY					
10/01/2012] то	10/31/2012					

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01)

COOLING SYSTEM BLOWDOWN

CS

External Outfail

*** NO DISCHARGE

PARAMETER		QUA	ITITY OR LOADIN	G		NOO RO YTTTHAUS		NO.	FREQUENCY	SAMPLE	
PARAMETER		VALUE	LUE VALUE	UNITS VALUE	VALUE	VALUE	VALUE	UNITS	EX	ANALYSIS	TYPE
Temperature, water deg. Fahrenheit	SAMPLE MEASUREMENT	*****	*****	*****	000000	******	92.1	15	0	01/01	CN
00011 1 0 Effluent Gross	REQUIREMENT				Per Titue	W. 777	Req. Mon.	deg.F.	in the second	Daily	CONTIN
Н	SAMPLE MEASUREMENT	*****	*****	*****	8.29	200014	8.58	12	0	01/07	GR
00400 1 0 Effluent Gross	REQUIREMENT		9,000	-	MINIMUM *	1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 ≥ MAXIMUM	şu		Weekly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	*****	*****	120000	5.6	5.6	19	0	01/30	GR
00530 1 0 Effluent Gross	REPUIT *	1		7.11.6		Reg. Mon. 30DA AYG	Req. Mon. DAILY MX	Diga.	1,2	Monthly	GRAB
Oil & Grease	SAMPLE MEASUREMENT	*****	*****	*****	******	<1.4	<1.4	19	0	01/07	GR
00556 1 0 Effluent Gross	REQUIREMENT		nemal.	1		15 SODA AVG	DAILA WX '	mg/L		, Weekly	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	900000	*****	<0.0021	19	0	01/07	GR
D1034 1 0 Effluent Gross	REQUIREMENT	企業的	7.2	T.			Q.2. DAILY MX	mg/L		Weekly	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	*****	*****	*****	900000	0.030	19	0	01/07	GR
01042 1 0 Effluent Gross	PERMIT *** REQUIREMENT		7.7.2		gangen	N. P. S. S. S. S. S. S. S. S. S. S. S. S. S.	0.071 DAILY MX		"	Weekty	GRAB
Zinc, total (as Zn)	SAMPLE MEASUREMENT	*****	******	*****	*****	<0.002	0.004	19	0	01/07	GR
01092 1 0 Effluent Gross	PERMIT ::: REQUIREMENT:		69 M	*******		.213 30DA AVG	.493 DAILY MX	mg/L	.65	Weekly	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	i certify under penalty of direction or supervision in						π	LEPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system, information submitted is	or those persons dire	ctly responsible for gat	hering the inform	nation, the	4 Junior Com		406-3700	11/19/2012		
Plant Manager	information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting talse information, including the possibility of fine and imprisionment for knowing violations.					EXECUTIVE OFFICER OR		NUMBER	MM/DD/YYYY		Y
TIPED ON PRENTED						AUTHORIZED AC	SENT COD	<u> </u>	<u> </u>		
COMMENTS AND EXPLANATI 1. Monitoring data for outfall 00		• • • • • • • • • • • • • • • • • • • •	ali attachments i	nere)							
EPA Form 3320-1 (Rev 01/06)						· · · · · · · · · · · · · · · · · · ·				1/6/2012	PAG

PERMI	LLEEV	NAME/	AUU	KESS

NAME Exelon Generation Co., LLC ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

LOCATION 4450 North German Church R Byron, IL 61010 FROM

IL0048313	001-0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

MM/DD/YYYY MM/DD/YYYY
10/01/2012 TO 10/31/2012

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01) CS

COOLING SYSTEM BLOWDOWN

External Outfail

*** NO DISCHARGE ...

		QUANTITY OR LOADING				QUANTITY OR CONCENTRATION					FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	STINU	VALUE	VALUE	VALU	E	บทกร	NO. EX	OF ANALYSIS	TYPE
Oxidants, total residual	SAMPLE MEASUREMENT	******	*****	*****	*****	200103	0.04		19	0	01/07	GR
34044 1 0 Effluent Gross	PERMIT REQUIREMENT						.05 DALY	4X	mg/L		Weeldy	GRAB
Priority pollutants total effluent	SAMPLE MEASUREMENT	*****			*****	*****					500	
50008 1 0 Effluent Gross	REPUIT BEQUIREMENT		Req. Mon.	p/d.	7999		Fied. M		mg/L		Weekly 3	GRAB
Flow, in conduit or thru reatment plant	SAMPLE MEASUREMENT	17.97	23.59	3	*****	*****	*****		*****	0	01/01	CN
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	Reg. Mon. 30DA AVG	Fleq. Mon.	Mga/d	esupe.		40000		19199	*	Daily	CONTIN
Chlorine, total residual	SAMPLE MEASUREMENT	*****	*****	******	*****	*****					500	
50060 1 0 Effluent Gross	PERMIT REQUIREMENT	arije.	proper Cope	APPE .	Ever .		.05 PAILY I	ΛX	mg/L		Weekly	GRAB
Hydrazine	SAMPLE MEASUREMENT	*****	*****	*****	******						500	
B1313 1 0 Effluent Gross	PERMIT REQUIREMENT	gropes				.011 30PA AVG	.027 DA4 Y I	ax.	mg/L		Daily When Discharging	GRAB
	SAMPLE MEASUREMENT							,			_	
	PERMIT :	**,4					or to		And World	; , , , ,		
	SAMPLE MEASUREMENT											
	PERMIT	STATE OF THE PARTY	rest than the					Sign.	A Property	27.4 17.4	وردورة والمرادية	g o go Taga o agu
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision is	law that this documer	nt and all attachments w	rene prepared ur				TEL	EPHONE		DATE	
	properly gather and evaluation manage the system.	ute the information su , or those persons din	bmitted. Based on my i actly responsible for gat	nquiry of the per hering the infor	rson or persons nation, the	SIGNATURE OF PA	INCIPLE	815	406-3700		11/19/2012	!
Plant Manager	aware that there are sign	nificant penalties for si						AREA	NUMBER		MM/DD/YYY	Y
Plant Manager TYPED OR PRINTED	fine and imprisionment to	nificant penalties for so or knowing violations.		on, including the	onpete. Lan j	EXECUTIVE OFFICE AUTHORIZED A	CER OR	AREA	NUMBER		MM/DD/YYY	Y

PFRA	AUTTEE	NAME/	ADDRESS

NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

IL0048313					
PERMIT NUMBER					

002-0	
DISCHARGE NUMBER	

	MONITO	RING	PERIOD
	MM/DD/YYYY		MM/DD/YYYY
FROM	10/01/2012	TO	10/31/2012

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01)

STORMWATER RUNOFF BASIN

CS

External Outfall

*** NO DISCHARGE X

PARAMETER	QUA		ANTITY OR LOADING			QUANTITY OR CONCENTRATION			NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	ANALYSIS	TYPE
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	*****	202400	*****						
00530 1 0 Effluent Gross	REQUIREMENT	1777		Cove S		15 300A AVG	30 DAILY M	ces inot.		Weekly	GRAB
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****						
00530 8 0 Other Treatment, Process Complete	+ BEQUISEMENT					30 30DA AVG	100 POAILY M			Weekly	GRAB
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****						
D1032 1 0 Effluent Gross	REQUIREMENT	WAR TO	A Linear	13.	A Line	.011 + 300A AVG	O18	/_mo/L.	753	Daily	GRAB
Chromium, total as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	******						
01034 1 0 Effluent Gross	REQUIREMENT	PWY (e	100		N. W.	30PA AVG	PAILÝ M	g mod	1	Daily	GRAB
Copper, total as Cu)	SAMPLE MEASUREMENT	*****	*****	*****	*****				<u> </u>		
01042 1 0 Effluent Gross	BEQUIREMENT		avent.	- 10	- FT-10	.025 30DA AVG	.041 DAILY M	mp/L	* * *	Daily	GRAB
ron, total as Fe)	SAMPLE MEASUREMENT	*****	******	*****	*****	******					
01045 1 0 Effluent Gross	REQUIREMENT	19 m	200	ann.	7781	AND BUT	DAILYM	mg/L		Daily	GRAB
.ead, total as Pb)	SAMPLE MEASUREMENT	*****	840000	*****	******						
01051 1 0 Effluent Gross	PERMIT REQUIREMENT		Section 1	7. 温温	34 TH . 15	.063 	298 DAILY M	c mg/L	1	Daily	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICE	Imperior or subarrision	in accordance with a s	ystem designed to assu	ire that qualified	personnel			TELEPHONE		DATE	
Benjamin P. Youman	properly gather and eval who manage the system information submitted is.	n, or those persons din	actly responsible for gat	hering the infor	nation, the	Smarure of Fri		815 406-3700	9	11/19/2012	
Plant Manager	aware that there are signifine and imprisionment for	nificant penalties for su				EXECUTIVE OFFIC		AREA NUMBE		MM/DD/YYY	Υ
TYPED OR PRINTED	into and authorizing page 1	u money vicalis.				AUTHORIZED AC	GENT (CODE	٦.		-

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- 1. No Turbine Building Fire and Oil Sump or Generic Non-Chemical Metal Cleaning Wastewater was discharged this month.
- 2. No Fire Protection, Service Water or Closed Cooling System Drain Water was discharged this month.

PERMITTEE NAME/ADDRESS

ADDRESS

NAME Exelon Generation Co., LLC

4300 Winfield Road Warrenville, II 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	
 PERMIT NUMBER	

FROM

002-0	
DISCHARGE N	JMBER

MONITORING PERIOD						
MM/DD/YYYY		MM/DD/YYYY				
10/01/2012	TO	10/31/2012				

DMR Mailing ZIP CODE:

MAJOR

(SUBR 01)

CS

STORMWATER RUNOFF BASIN

External Outfall

*** NO DISCHARGE X

61010

PARAMETER		QUA	NTTY OR LOADING	 G	C	LUANTITY OR CONC	ENTRATIO	N		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUI	E	UNITS	EX	OF ANALYSIS	TYPE
Nickel, total as Ni)	SAMPLE MEASUREMENT	*****	*****	*****	440444							
D1067 1 0 Effluent Gross	PERMIT REQUIREMENT	7777	*****	***		.011 30DA AVG	.176 PAILY N	48	mg/L	,	Daily	GRAB
Zinc, total (as Zn)	SAMPLE MEASUREMENT	*****	*****	*****								
01092 1 0 Effluent Gross	PERMIT REQUIREMENT		\$ page 15		37	.047 30DA AVG	.26 DAILY	AX.	mg/L		Daily	GRAB
Oil and Grease	SAMPLE MEASUREMENT	*****	*****	******	00000							
03582 1 0 Effluent Gross	REQUIREMENT	(8'K)	19900		7.77	15 30DA AVG	20 PAILY N	ax zz	mg/L		When Discharging	ĢRAB
Flow, in conduit or thru reatment plant	SAMPLE MEASUREMENT				****	*****	******		*****			
50050 1 0 Effluent Gross	REQUIREMENT	Req. Mon.	Req. Mon.	Masyd	150	Variation		syry)	*****		When Discharging	ESTIMA
	SAMPLE MEASUREMENT											
	BEQUIREMENT		17.	1					100 Med 4	ر م دانمور		100
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT.					20 0 W			ng Paga			
	SAMPLE MEASUREMENT											
	REQUIREMENT					A Company of the Comp	1000		e et de grande. Grande grande 17.2		300 m	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision is				ider my			TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system	ute the information sul , or those persons dire	omitted. Based on my in actly responsible for gat	nquiry of the per hering the infor	rson or persons nation, the	GMAZURE OF PRIM	ICIDI E	815	406-3700		11/19/2012	
Plant Manager	information submitted is, aware that there are sign	nificant penalties for su			conquerter i will	EXECUTIVE OFFICE		AREA	MINDES			~
TYPED OR PRINTED	fine and imprisionment for	or knowing violations.			ļ	AUTHORIZED AG	ENT	CODE	NUMBER	ŀ	MM/DD/YYY	T

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- 1. This discharge point was not used this month.
- 2. There was no discharge of processed steam generator chemical cleaning wastewater during the month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/8/2012

For Exelon Byron Station Permit IL0048313

October 2012

Page 1 of 3

MONITORING DATA:

MONITORING	DATA:	•	
DATE	CWBD Temperature deg F	CWBD Flow mgd	Rock River Flow cfs
10/01/2012	89.7	16.53	1,520
10/02/2012	89.2	17.71	1,530
10/03/2012	89.9	16.99	1,450
10/04/2012	91.8	17.62	1,550
10/05/2012	91.8	18.17	1,550
10/06/2012	83.4	18.70	1,450
10/07/2012	81.2	17.50	1,420
10/08/2012	82.3	18.01	1,580
10/09/2012	81.9	13.78	1,550
10/10/2012	78.8	15.67	1,450
10/11/2012	78.9	18.82	1,600
10/12/2012	78.9	17.59	1,450
10/13/2012	78.9	21.09	1,500
10/14/2012	90.8	21.01	1,790
10/15/2012	89.1	13.78	1,820
10/16/2012	82.1	17.26	1,820
10/17/2012	84.6	17.34	1,930
10/18/2012	82.2	18.0	2,220
10/19/2012	80.1	16.21	2,050
10/20/2012	79.7	23.59	2,200
10/21/2012	77.5	17.88	2,160
10/22/2012	90.3	13.60	2,130
10/23/2012	90.3	16.17 ·	2,430
10/24/2012	91.8	16.73	2,820
10/25/2012	92.1	19.90	2,860
10/26/2012	79.4	19.11	2,750
10/27/2012	77.9	23.52	2,710
10/28/2012	76.1	19.37	2,590
10/29/2012	73.7	15.88	2,500
10/30/2012	72.8	18.13	2,460
10/31/2012	74.9	21.30	2,440

For Exelon Byron Station Permit IL0048313 October 2012 Page 2 of 3

HYDRAZINE MONITORING:

There were no steam generator chemical cleaning solutions (or associated rinses) containing hydrazine discharged to the Cooling System Blowdown during the month of October 2012.

TOTAL QUANTITY DISCHARGED: N/A

TOTAL DURATION OF DISCHARGE: N/A

COMMENTS:

- 1. Sodium Hypochlorite and Bromine compounds were used this month.
- 2. There was no discharge of steam generator chemical cleaning wastewater containing hydrazine in this month.
- 3. Flow existed through this outfall 31 of 31 days.
- 4. Per Special Condition 24 the influent from the Rock River and effluent from Outfall 001-0 was monitored for Total Suspended Solids (TSS) this month. The Rock River TSS value was 13.6 mg/L on 10/08/2012. The CWBD TSS value was 5.6 mg/L on 10/08/2012.
- 5. Rock River flow was <2400 cfs in October 2012 until October 24th therefore daily temperature calculations were required during this time period. (Special Condition 12). Per Special Condition 12, in the event the Rock River flow is <2,400 cfs, daily calculations will be undertaken to demonstrate compliance with the water quality standard. The calculations are based on hourly measurements, averaged over a 24-hour calendar day for Rock River flow, main Rock River temperature, CW Blowdown flow, and CW Blowdown temperature values. Results of the calculations shall be reported in the DMR on a monthly basis. Calculation results are in the table on the following page.
- 6. There was no discharge of the 126 Priority Pollutants from cooling tower maintenance chemicals in October 2012. (Special Condition 15).

For Exelon Byron Station Permit IL0048313 October 2012 Page 3 of 3

Date	Average	Average	Average	Average	Calculated	Water Quality
	Rock	CW M/U	CW	cw	Temperature	Standard
1	River	Temperature	Blowdown	Blowdown	at edge of	Temperature
	Flow	(F)	Flow	Temperature	mixing zone	(F)
	(cfs)		(gpm)	(F)	(F)	
10/01/12	1,520	62	12246	89	63.1	90
10/02/12	1,530	61	12304	90	62.2	90
10/03/12	1,450	62	12283	90	63.4	90
10/04/12	1,550	61	12254	90	62.2	90
10/05/12	1,550	57	12321	83	58.0	90
10/06/12	1,450	53	12225	81	54.4	90
10/07/12	1,420	52	12167	82	53.5	90
10/08/12	1,580	52	11838	79	53.1	90
10/09/12	1,550	52	9750	79	52.9	90
10/10/12	1,450	52	12750	75	53.2	90
10/11/12	1,600	51	12713	77	52.0	90
10/12/12	1,450	52	12754	76	53.2	90
10/13/12	1,500	-54	12883	81	55.1	90
10/14/12	1,790	57	13142	86	58.2	90
10/15/12	1,820	55	12229	79	55.8	90
10/16/12	1,820	55	12408	83	56.0	90
10/17/12	1,930	57	12204	84	57.9	90
10/18/12	2,220	54	12217	78	54.7	90
10/19/12	2,050	54	13013	77	54.7	90
10/20/12	2,200	54	13046	78	54.7	90
10/21/12	2,160	54	12229	81	54.8	90
10/22/12	2,130	57	10513	88	57.7	90
10/23/12	2,430	58	13242	89	58.8	90

Exelon Generation Company, LLC Byron Station 4450 North German Church Road Byron, IL 61010-9794 www.exeloncorp.com

Nuclear

December 17, 2012

LTR: BYRON 2012-0133

File: 2.09.0411

1.10.0101

Illinois Environmental Protection Agency Water Pollution Control Compliance Assurance Section #19 1021 North Grand Avenue East P.O. Box 19276 Springfield, IL 62794-9276

Subject:

Byron Station Monthly Discharge Monitoring Report

In accordance with National Pollutant Discharge Elimination System (NPDES) Permit Number IL0048313, issued January 24, 2011, we are submitting the Discharge Monitoring Report for Byron Station, Units 1 and 2. This report covers the period of November 1, 2012 through November 30, 2012.

If there are any questions regarding this report, please contact Ms. Zoe Cox, Environmental/Radwaste Supervisor, at (815) 406-3035.

Respectfully,

Benjamin P. Youman

Plant Manager

Byron Nuclear Generating Station

BPY/ZC/eh Attachments bcc: Jennifer Gould – Environmental – Cantera (electronic) Zoe Cox – Environmental - Byron

PI	ED1	4677	FF	NΔ	MF/	ΔD	DRES	25

NAME Exeion Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

FROM

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road
Byron, IL 61010

IL0048313	A01-0
PERMIT NUMBER	DISCHARGE NUMBER
MONITO	RING PERIOD

MONITORING PERIOD

MM/DD/YYYY

11/01/2012

TO

11/30/2012

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01) CS

DEMINERALIZER REGENERATE WASTE (001A)

External Outfall

*** NO DISCHARGE .***

1/6/2012

PAGE 1

ATTN: Zoe Cox/ENV SPEC FREQUENCY QUANTITY OR CONCENTRATION QUANTITY OR LOADING NO. SAMPLE PARAMETER OF EX TYPE VALUE UNITS VALUE VALUE VALUE UNITS VALUE ANALYSIS SAMPLE 01/30 <3.6 Solids, Total Suspended <3.7 19 0 08 MEASUREMENT 00530 1 0 PERMIT . 5 - 15 . 30 To survey 12th COMP-8 ***** Effluent Gross REQUIREMENT Chromium, hexavalent SAMPLE 500 (as Cr) MEASUREMENT 01032 1 0 PERMIT GRAB * mg4 Daily Effluent Gross REQUIREMENT Chromium, total SAMPLE 500 (as Cr) MEASUREMENT 01034 1 0 PERMIT GRAB Raily Effluent Gross EQUIREMENT Copper, total SAMPLE 500 (as Cu) MEASUREMENT 01042 1 0 PERMIT SODA AVG. PALYMA GRAB BEQUIREMENT Effluent Gross SAMPLE Iron, total 500 (as Fe) MEASUREMENT 01045 1 0 PERMIT GRAB Effluent Gross REQUIREMENT Lead, Total SAMPLE 500 (as Pb) MEASUREMENT 01051 1 0 PERMIT 2 : S. WHISE Daily GRAB Effluent Gross BEQUIREMENT Nickel, total SAMPLE 500 (as Ni) MEASUREMENT 01067 1 0 PERMIT GRAB Effluent Gross REQUIREMENT NAME/TITLE certify under penalty of law that this document and all attachments were prepared under my TELEPHONE DATE PRINCIPAL EXECUTIVE OFFICER direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evalute the information submitted. Based on my inquiry of the person or persons 815 406-3700 12/17/2012 Benjamin P. Youman who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting talse information, including the possibility of EXECUTIVE OFFICER OR Plant Manager ARE/ NUMBER MM/DD/YYYY fine and imprisionment for knowing violations. TYPED OR PRINTED **AUTHORIZED AGENT** CODI COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) There was no discharge of processed steam generator chemical cleaning wastewater during this month. 2. Flow existed 30 of 30 days during this month.

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

	l	IL0048313
PERMIT NUMBER		PERMIT NUMBER

 A01-0	
DISCHARGE NUMBER	_

	MONITO	RING PERIO	OD GC	
	MM/DD/YYYY		MM/DD/YYYY	
FROM	11/01/2012	то	11/30/2012	

MR	Mail	ing	ZIP	CODE	;
----	------	-----	-----	------	---

g ZIP CODE:

61010

MAJOR

(SUBR 01) CS

DEMINERALIZER REGENERATE WASTE (001A)
External Outfall

•••NO DISCHARGE

Byron, IL 61010 ATTN: Zoe CowENV SPEC FREQUENCY QUANTITY OR LOADING QUANTITY OR CONCENTRATION SAMPLE NO. OF **PARAMETER TYPE** EX VALUE **VALUE** VALUE UNITS **VALUE** UNITS VALUE **ANALYSIS** SAMPLE Zinc, Total 500 (as Zn) MEASUREMENT 01092 1 0 PERMIT GRAB REQUIREMENT Effluent Gross Flow, in conduit or thru SAMPLE 0 01/01 ES 0.057 0.243 treatment plant MEASUREMENT 50050 1 0 PERMIT Req. Mon. Req. Mon. 122218 CONTIN DAILY MX Effluent Gross BEQUIREMENT SAMPLE MEASUREMENT PERMIT. ... REQUIREMENT: SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT : BEQUIREMENT SAMPLE MEASUREMENT RERMIT CONTRACT AND BEQUIREMENT SAMPLE MEASUREMENT PERMIT NAME/TITLE I certify under penalty of law that this document and all attachments were prepared under my TELEPHONE DATE PRINCIPAL EXECUTIVE OFFICER direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evalute the information submitted. Based on my inquiry of the person or persons 406-3700 815 12/17/2012 Benjamin P. Youman who manage the system, or those persons directly responsible for gathering the information, the SIGNATURE OF PRINCIPLE information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am **EXECUTIVE OFFICER OR** aware that there are significant penalties for submitting false information, including the possibility of Plant Manager AREA NUMBER MM/DD/YYYY fine and imprisionment for knowing violations. AUTHORIZED AGENT TYPED OR PRINTED CODE COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Flows for November 2012 are estimated based on July 2012 values due to totalizers being Out of Service. The totalizers are an obsolete model and work orders are in place to find
replacement totalizers and get them installed in the system.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

PERMIT			

NAME Exelon Generation Co., LLC ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

IL0048313	}	B01-0
PERMIT NUMBER	١.	DISCHARGE NUMBER

| MONITORING PERIOD | MM/DD/YYYY | MM/DD/YYYY | FROM | 11/01/2012 | TO | 11/30/2012 |

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01)

CS

STP PLANT EFFLUENT (FORMER 001B)

External Outfall

··· NO DISCHARGE

Byron, IL 61010 ATTN: Zoe Cox/ENV SPEC FREQUENCY QUANTITY OR LOADING QUANTITY OR CONCENTRATION NO. SAMPLE PARAMETER EX TYPE VALUE UNITS VALUE VALUE VALUE UNITS VALUE **ANALYSIS** SAMPLE BOD, 5-Day 0.27 0.35 5.0 7.0 19 0 02/30 24 26 (20 Deg. C) MEASUREMENT 60 00310 1 0 PERMIT 30 5.3 Twice Per Manti COMP24 DAILY MX Effluent Gross REQUIREMENT DAILYMX SAMPLE 12 02/30 GR Ιон 7.13 7.61 0 MEASUREMENT PERMIT 00400 1 0 Qe 8 . . . Twice Per Month GRAB MAXIMUM Effluent Gross REQUIREMENT SAMPLE 02/30 0.12 <1.8 2.4 19 0 24 Solids, total suspended <0.11 MEASUREMENT 00530 1 0 RERMIT 5.3 30DA AVG 10.5 30 60 100/ Twice Per Month COMP24 DAILYMX DAILY MX Effluent Gross REQUIREMENT Flow, in conduit or thru SAMPLE 0.007 0 01/01 CN 0.005 treatment plant MEASUREMENT 50050 1 0 PERMIT Req. Mon, Req. Mgn. CONTIN Effluent Gross REQUIREMENT SAMPLE MEASUREMENT PERMIT & BEQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT REPLAIT" REQUIREMENT NAME/TITLE I certify under penalty of law that this document and all attachments were prepared under my TELEPHONE DATE PRINCIPAL EXECUTIVE OFFICER direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evalute the information submitted. Based on my inquiry of the person or persons 406-3700 815 12/17/2012 Benjamin P. Youman who manage the system, or those persons directly responsible for gathering the information, the SIGNATURE OF PRINCIPLE information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of **EXECUTIVE OFFICER OR** Plant Manager AREA NUMBER MM/DD/YYYY line and imprisionment for knowing violations. TYPED OR PRINTED **AUTHORIZED AGENT** CODE COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) 1. Flow existed through this outfall 28 of 30 days during this month. 1/6/2012 EPA Form 3320-1 (Rev 01/06) Previous editions may be used. PAGE 1

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

Flow existed through this outlall 11 of 30 days during the month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

FACILITY Byron Nuclear Power Station

LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	7	C01-0
PERMIT NUMBER	7 —	DISCHARGE NUMBER
MONIT	ORING PER	IOD
MONIT MM/DD/YYYY	ORING PER	IOD MM/DD/YYYY

DMR Mailing ZIP CODE:

MAJOR

(SUBR 01) CS

WWTP (FORMER 001C) External Outfall

***NO DISCHARGE

1/6/2012

PAGE 1

61010

PARAMETER		QUAI	NTTTY OR LOADIN	G	j (QUANTITY OR CON	CENTRATIO	N		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUI	E	UNITS	EX	OF ANALYSIS	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	*****	******	*****	*****	1.4	2.5		19	0	02/30	24
00530 1 0 Effluent Gross	PERMIT BEQUIREMENT			LEW IS		15 300A AVG	DAILY N	(X)	, ш у Г		Twice Per Month	COMP24
Chromium, hexavalent as Cr)	SAMPLE MEASUREMENT	*****	*****	054644	*****						500	
01032 1 0 Effluent Gross	REQUIREMENT	. 1019	- 100 and	-HWW	*****	1 30DA AVG	PAILY A	0X ° 6	TOP!		Daily:	GRAB
Chromium, total as Cr)	SAMPLE MEASUREMENT	*****	******	*****	*****						500	
01034 1 0 Effluent Gross	REQUIREMENT.	A Paris		***	Market A	- 30DA AVG	PALY N	X.	mg/l		Daily	GRAB
Copper, total as Cu)	SAMPLE MEASUREMENT	*****	*****	*****	*****						500	
01042 1 0 Effluent Gross	REQUIREMENT.		******			SODA AXG	DAILYA	QX -	Dg/L		Daily	GRAB
ron, total as Fe)	SAMPLE MEASUREMENT	*****	400000	******	*****	*****					500	
01045 1 0 Effluent Gross	REQUIREMENT.		7 may	1171			DAILYA		me/L:		Daily	GRAB.
ead, total as Pb)	SAMPLE MEASUREMENT	*****	*****	*****	******						500	
01051 1 0 Effluent Gross	REQUIREMENT					300AAYG	. DAILY		. DQ4		Paily	GRAB
lickel, total as Ni)	SAMPLE MEASUREMENT	*****	*****	*****	898668						500	
01067 1 0 Effluent Gross	REQUIREMENT					30DA AVG	DAILY N	ox =	mg/L		Daily	GRAB
NAME/ITTLE PRINCIPAL EXECUTIVE OFFICE	Imiacoou or enbaryzion i	in accordance with a s	ystem designed to assu	re that qualified	personnel			TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and eval who manage the system information submitted is	, or those persons dire	ectly responsible for gat	hering the infor	nation, the	SIGNATURE OF PR		815	406-3700		12/17/2012	
Plant Manager	aware that there are sign line and imprisionment to	nificant penalties for su				EXECUTIVE OFFIC	ER OR	AREA	NUMBER	-	MM/DD/YYY	
COMMENTS AND EXPLAN	TOU OF 11111101 A					AUTHORIZED AC	GENI	CODE	L	L	······································	

DEDL	NAME	ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byron, IL 61010

PERMIT NUMBER DISCHARGE N	
---------------------------	--

11/30/2012

11/01/2012

FROM

DMR Mailing ZIP CODE:

MAJOR

(SUBR 01) CS

WWTP (FORMER 001C)

External Outfall

··· NO DISCHARGE ...

61010

ATTN: Zoe CowENV SPEC		QUAI	NTTTY OR LOADING	G		QUANTITY OR CONCENTRATION						FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE		VALUE	VALU	E	UNITS	EX	OF ANALYSIS	TYPE
Zinc, total (as Zn)	SAMPLE MEASUREMENT	*****	*****	*****	••••							500	
01092 1 0 Effluent Gross	PERMIT		1111	*****		٠ 	300A AVG	. DAILY	6 X	mg/L		Paily	GRAB
low, in conduit or thru reatment plant	SAMPLE MEASUREMENT	0.027	0.049	3	*****		*****			*****	0	01/01 3	CN
50050 1 0 Effluent Gross	PERMIT BEQUIREMENT	Reg. Mon. 3004 AVG	Reg. Mon. DAILY MX	Mosyd	X X.		1989 			* 373.00		Daily	CONTIN
	SAMPLE MEASUREMENT						-, ,,,				,,_		.,, ,, ,
	REQUIREMENT:				100				idayi And				
	MEASUREMENT	20.00	Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Ma	sada e sada	v Samuel Comme		Taylor and the	www.ii.e in s.a		and the		1.	
	REQUIREMENT.	1					18	i en	A COL	*			A Survivor
•	MEASUREMENT PERMIT			3. 6.0				7 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- \$-				-
	REQUIREMENTS SAMPLE MEASUREMENT								2 - A	in the second	J. 19.		
	PERMIT										14 X	2	
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT	· And a state of		1000									100
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision i	n accordance with a s	ystem designed to assu	ure that qualified	personnel	0			TE	LEPHONE		DATE	
Benjamin P. Youman	properly gather and evaluate who manage the system information submitted is,	, or those persons din	actly responsible for gat	thering the Infor	mation, the	SIC	NATURE OF PRI	NCIPLE	815	406-3700		12/17/2012	!
Plant Manager	aware that there are sign fine and imprisionment fo	nificant penalties for si	ubmitting talse informati	on, including the	possiblity of	E	XECUTIVE OFFICE AUTHORIZED AC		AREA	INUMBER		MM/DD/YYY	Υ
COMMENTS AND EXPLANAT	ION OF ANY VIOLA	TIONS (Reference	e all attachments i	here)				<u> </u>	1222				······
			- w w										
EPA Form 3320-1 (Rev 01/0	06) Previous editions	may be used.										1/6/2012	PAGE

PERMITTEE NAME/ADDRES	
	2

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road
Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byron, IL 61010

Digot Izalde mola.	Charles the Cott (Danty)
JI 0048313	D01_0

CHARGE NUMBER

	MONITORING PERIOD						
	MM/DD/YYYY		MM/DD/YYYY				
ROM	11/01/2012	TO	11/30/2012				

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01) CS

RADWASTE TREATMENT (FORMER 001D)

External Outfall

··· NO DISCHARGE ...

PARAMETER		QUA	NTITY OR LOADIN	G	1	QUANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	*****	107019	*****	*****	<1.0	1.6	19	0	02/30	СР
00530 1 0 Effluent Gross	PERMIT BEQUIREMENT	1.2		-		15 30DA AVG	30 DAILY MX	ng/.		Twice Par Month	COMPOS
low, in conduit or thru reatment plant	SAMPLE MEASUREMENT	0.021	0.022	3	******	*****	*****	*****	0	01/01	CN
50050 1 0 Effluent Gross	PERMIT BEQUIREMENT	Req. Mon. 30DA AVG	Req. Mon.	Mos/d	To grade		11111	******	100	Daily	CONTIN
-	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT						A second	Z 10%	1832		
	SAMPLE MEASUREMENT										
	BECHIRENENT		7 5 2 7 12		1.9		The marks	11.24			
	SAMPLE MEASUREMENT										
	REQUIREMENT:										rus de
	SAMPLE MEASUREMENT PERMIT										
	REQUIREMENT SAMPLE				1100			14.0			
	MEASUREMENT							·11 · · · · · · · · · · · · · · · · · ·		, , , , , , , , , , , , , , , , , , , ,	
	PERMIT REQUIREMENT			F. 89%	WAS A				1.47		
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	direction or supervision i	in accordance with a s		ire that qualified	personnel	0	.	TELEPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation who manage the system information submitted is,	n, or those persons din	ectly responsible for gat	hering the infor	nation, the	SIGNATURE OF PRI		315 406-3700		12/17/2012	
Plant Manager	aware that there are signifine and imprisionment to	nificant penalties for s			aniprovo. rani	EXECUTIVE OFFICE	ER OR	REA NUMBER		MM/DD/YYY	Υ
TYPED OR PRINTED	1	•			l .	AUTHORIZED AC	GENT IC	ODE			

D	EOL	ATTTEC	MAR	4E/AD	DRESS

Exelon Generation Co., LLC NAME **ADDRESS** 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY **Byron Nuclear Power Station LOCATION** 4450 North German Church Road

Byron, IL 61010

IL0048313	
PERMIT NUMBER	

E01-0 DISCHARGE NUMBER

1	· ·	MONITORIN	G PERIOD	
	MM/DD/YYYY		MM/DD/YYYY	
FROM	11/01/2012	T	0 11/30/2012	

DMR Mailing ZIP CODE:

61010

MAJOR (SUBR 01)

CS

STORMWATER (FORMER 001E)

External Outfall

... NO DISCHARGE X ...

PARAMETER		QUA	TITY OR LOADIN	G	G	UANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE				
PANAMETEN		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	ANALYSIS	TYPE				
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	898188										
00530 1 0 Effluent Gross	REQUIREMENT	411	and the		10.1177	15 300A AVG	DAILY MX	- } mg4	1	Weekly	GRAB				
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****										
00530 8 0 Other Treatment, Process Complete	PERMIT RECURBINENT					300 AVG	DALY MX	POL-	8.8	Weekly	GRAB				
Chromium, hexavalent as Cr)	SAMPLE MEASUREMENT	*****	*****	******	*****										
01032 1 0 Effluent Gross	REPAIT BEQUIREMENT					30DA AVG	DAILY MOX	. Mg/L		Daily	GRAB				
Chromium, total as Cr)	SAMPLE MEASUREMENT	201000	*****	*****	*****										
01034 1 0 Effluent Gross	PERMIT	mm		200		30DA AVG	DAILY MX	mg/L		· · · Daily ·	GRAB				
Copper, total as Cu)	SAMPLE MEASUREMENT	*****	******	******	994504										
01042 1 0 Effluent Gross	PERMIT BEQUIREMENTS					A 30DA AVG	T DAILY MX	mod		Dally	GRAB				
ron, total as Fe)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****									
01045 1 0 Effluent Gross	PERMIT REQUIREMENT			1999		· 上開節 : 4.4	DAILYMX	· mg/L		Delly	- GRAB				
.ead, total as Pb)	SAMPLE MEASUREMENT	******	*****	*****	4+1+44										
01051 1 0 Effluent Gross	PERMIT REQUIREMENT	ary.		Legge		2 30DA AVG	* PAILY MX	* mg/L		Daily	GRAB				
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision is					-		TELEPHONE		DATE					
Benjamin P. Youman	properly gather and evaluation manage the system	, or those persons din	actly responsible for gat	hering the inton	nation, the	GNATURE OF PRI		15 406-3700		12/17/2012	<u> </u>				
	aware that there are sign	ificant penalties for su				\ / \ \ \	ER OR	information submitted is, to the best of my knowledge and besid, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of EXECUTIVE OFFICER OR AREA NUMBER MM/DD/YYY							

OF ANY VIOLATIONS (Reference all attachments here)

- 1. There was no discharge of processed steam generator chemical cleaning wastewater during the month.
- 2. This discharge point was not used this month.

EPA Form 3320-1 (Rev 01/06) Previous editions ma	iav be used	ad.
--	-------------	-----

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME

Exelon Generation Co., LLC

ADDRESS

4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY

Byron Nuclear Power Station LOCATION 4450 North German Church Road

В	yn	on	Ц	(6	10	11	0

DISCHANGE	NG HEFON!	(DIBIO)
IL0048313		E01-0

PERMIT NUMBER

FROM

E01-0 DISCHARGE NUMBER

MONITO	RING	PERIOD
MM/DD/YYYY		MM/DD/YYYY
11/01/2012	TO	11/30/2012

DMR Mailing ZIP CODE:

MAJOR

(SUBR 01)

STORMWATER (FORMER 001E)

CS

External Outfall

... NO DISCHARGE X ...

61010

DADAMETED		QUAN	ITITY OR LOADIN	G		QUANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	OF ANALYSIS	TYPE
Nickel, total (as Ni)	SAMPLE MEASUREMENT	*****	*****	*****	*****						
01067 1 0 Effluent Gross	REQUIBEMENT					30DA AVG	DAILY MX	. mg/L		Daily	GRAB
Zinc, total (as Zn)	SAMPLE MEASUREMENT	*****	*****	*****	*****		,				
01092 1 0 Effluent Gross	REQUIREMENT	A THE	407-01		4 2"F	30DA AVG	DAILY NOX	mo/l_		Daily	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT				*****	•••••	*****	*****			
50050 1 0 Effluent Gross	REQUIREMENT	Req. Mon	Req. Mon.	Moald		779			4	Twice Rer Month	СОИТІЙ
	SAMPLE MEASUREMENT										
	PERMIT BEQUIREMENT						127.12		4		
	SAMPLE MEASUREMENT										_
****	PERMIT	- Late Activise	1.3		18 M. M.		2			A. 2. 34	
	SAMPLE MEASUREMENT										
	REQUIREMENT.	and the									Sec.
	SAMPLE MEASUREMENT					ļ			<u> </u>		
	** PERMIT REQUIREMENT					14.7					
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision i	in accordance with a sy	ystem designed to assu	re that qualified	personnel	personnel				DATE	
Benjamin P. Youman	properly gather and evaluation manage the system information submitted is,	n, or those persons dire	ectly responsible for gat	hering the inform	nation, the	SIGNATURE OF PRI		5 406-3700		12/17/2012	
Plant Manager	aware that there are sign	nificant penalties for su			companies i desir j	EXECUTIVE OFFICE		EA ALLANDES		444700000	
TYPED OR PRINTED	fine and imprisionment for	or knowing violations.			1	AUTHORIZED AC	SENT CO	NUMBER	1	MM/DD/YYY	Ŧ

- 1. No Closed Cooling System Drain Water was discharged this month.
- 2. No Fire Protection or Service Water System drain water was discharged this month.
- No Turbine Building Fire and Oil Sump or Generic Non-Chemical Cleaning wastewater was discharged this month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	001-0
PERMIT NUMBER	DISCHARGE NUMBER

	MONITORING PERIOD										
	MM/DD/YYYY		MM/DD/YYYY								
FROM	11/01/2012	ТО	11/30/2012								

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01)

CS

COOLING SYSTEM BLOWDOWN

External Outfall

··· NO DISCHARGE ...

242445		QUAI	NTITY OR LOADING	G	Q	UANTITY OR CON	CENTRATIO	N		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE		UNITS	EX	ANALYSIS	TYPE
remperature, water deg. Fahrenheit	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	84.6		15	0	01/01	CN
00011 1 0 Effluent Gross	BEQUIREMENT	aner .		107012			Req. Mo MO MA		deg.E	**************************************	Paly	СОЙЦИ
ЭН	SAMPLE MEASUREMENT	*****	*****	*****	8.44	*****	8.69		12	0	01/07	GR
00400 1 0 Effluent Gross	REPUIT		******	C.WIII.	MINIMUM	******	O MAXIMU	M ×	su -		Weekly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	*****		*****	******	5.0	5.0		19	0	01/30	GR
00530 1 0 Effluent Gross	PERMIT					Req. Mon. 30DA AVQ	Fleq. Mo		mg/L	13.	Monthly	GRAB
Oil & Grease	SAMPLE MEASUREMENT	*****	*****	*****	*****	<1.4	<1.4		19	0	01/07	GR
DO556 1 0 Effluent Gross	PERMIT			7	全层 经	15 30DA AVG	DAILY N	X.	me/L		Weekly	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	<0.002	1	19	0	01/07	GR
01034 1 0 Effluent Gross	BEQUIBEMENT	ALC:					Q.2 PAILY N	X:-2	mg/	1	Weekly	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	0.040		19	0	01/07	GR
01042 1 0 Effluent Gross	REQUIREMENT					11.00	0.071 PAILY M		morL	37	Weekly	GRAB
Zinc, total (as Zn)	SAMPLE MEASUREMENT	*****	******	*****	*****	<0.005	0.010		19	0	01/07	GR
01092 1 0 Effluent Gross	PERMIT		******	ann.		213 300A AVG	.433 DAILY M	X.	ne/	3	Weekly	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision it	law that this document accordance with a s	t and all attachments w ystem designed to assu	ere prepared ur	nder my personnel			TEL	EPHONE		DATE	
	properly gather and evalute the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting talse information, including the possibility of line and imprisionment for knowing violations. 815 406-3700 12/17/2012 SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AREA NUMBER MM/DD/YYYY											
TYPED OR PRINTED	<u>L. </u>					AUTHORIZED AC	ENT	CODE				
OMMENTS AND EXPLANAT Monitoring data for outfall 00		•	e ail attachmente h	nere) ·								
PA Form 3320-1 (Rev 01/06)	Previous editions ma	w ho used			· ·						1/8/2012	PAG

001-0

11/30/2012

PERMITTEE NAME/ADDRESS	
	•

NAME Exelon Generation Co., LLC ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
4450 North German Church Road
Byron, IL 61010

PERMIT NUMBER	DISCHARGE NUMBER							
***************************************	20142 252122							
MONITORING PERIOD								
MM/DD/YYYY	MM/DD/VVVV							

TO

IL0048313

11/01/2012

FROM

DMR Mailing ZIP CODE:

61010

MAJOR (SUBR 01)

01) CS

COOLING SYSTEM BLOWDOWN

External Outfall

*** NO DISCHARGE

	QUAI	NTITY OR LOADIN	<u> </u>	QUANTITY OR CONCENTRATION					NO FREQUENCY	SAMPLE	
	VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	E	UNITS	EX	OF ANALYSIS	TYPE
SAMPLE MEASUREMENT	*****	*****	*****	******	*****	0.05		19	0	01/07	GR
PERMIT REQUIREMENT	****		7	garne	esept.	OS DALY	(X	mg/L >		Weekly	GRAB
MEASUREMENT	*****			*****	*****					500	
REQUIREMENT		Req. Mon.	.100		******			mo/L	100 m	Weekly	GRAB
SAMPLE MEASUREMENT	18.74	29.28	3	*****	*****	*****	-	*****	0	01/01	CN
PERMIT REQUIREMENT	Req. Mon. 30DA AVG.	Req. Mon. DAILY MX	. Mga/d	32177				******	43.	Daily	CONTIN
SAMPLE MEASUREMENT	*****	*****	*****	******	*****					500	
REQUIREMENT	77.95	7.77	FATTIST	THE STATE OF THE S	2 1971 ×	O5 DAILY N	OΧ	-mg/L		Weekly	GRAB
SAMPLE MEASUREMENT	*****	*****	*****	*****						500	
REPUIT				7	.011 	Q27	QX.	mg/L	344 3344	Daily When Discharging	GRAB
SAMPLE MEASUREMENT											
BEQUIREMENT	**								3		
MEASUREMENT											
REQUIREMENT	· 是如果 6.1				N. As						
certify under penalty of tirection or supervision is	law that this documen n accordance with a s	t and all attachments w vatern designed to assu	ere prepared un	der my personnel			TEL	EPHONE		DATE	
properly gather and evaluation which was a second control of the system.	ute the information sui , or those persons dire	omitted. Based on my in actly responsible for gati	nquiry of the per hering the inform	rson or persons			815	406-3700		12/17/2012	
ntormation submitted is, tware that there are sign				umprete.iam	EXECUTIVE OFEIC		AREA	NUMBER		444/DD0000	
	or knowing violations.	• • • • • • • • • • • • • • • • • • • •		,	AUTHORIZED AC	SENT	CODE	NUMBER		MM/DD/YYY	T
	MEASUREMENT BEQUIREMENT SAMPLE MEASUREMENT REQUIREMENT SAMPLE MEASUREMENT REQUIREMENT REQU	SAMPLE MEASUREMENT REQUIREMENT SAMPLE MEASUREMENT REQUIREMENT REQUIREMENT SAMPLE MEASUREMENT REQUIREMENT SAMPLE MEASUREMENT REQUIREMENT SAMPLE MEASUREMENT REQUIREMENT REQUIREMENT REQUIREMENT SAMPLE MEASUREMENT REQUIREMENT REQUIREMENT SAMPLE MEASUREMENT REQUIREMENT REQUIREMENT SAMPLE MEASUREMENT REQUIREMENT REQUIRE	SAMPLE MEASUREMENT REQUIREMENT SAMPLE MEASUREMENT REQUIREMENT REQUIREMENT REQUIREMENT SAMPLE MEASUREMENT REQUIREMENT SAMPLE MEASUREMENT REQUIREMENT REQUIREMENT SAMPLE MEASUREMENT REQUIREMENT REQUIREMENT SAMPLE MEASUREMENT REQUIREMENT	SAMPLE MEASUREMENT BEQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT REQUIREMENT SAMPLE MEASUREMENT REQUIREMENT SAMPLE MEASUREMENT REQUIREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT REQUIREMENT SAMPLE MEASUREMENT REQUIREMENT	SAMPLE MEASUREMENT BEQUIREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT REQUIREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SODA AVG DAILY AVG BEQUIREMENT SODA AVG DAILY AVG SAMPLE MEASUREMENT RERMIT REQUIREMENT SAMPLE MEASUREMENT RERMIT REQUIREMENT SAMPLE MEASUREMENT RERMIT REPMIT AMPLE MEASUREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT REQUIREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT REQUIREMENT SAMPLE MEASUREMENT REQUIREMENT AMPLE MEASUREMENT BEQUIREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT PERMIT Req. Mon. PERMIT Req. Mon. PERMIT Req. Mon. Req. M	SAMPLE MEASUREMENT REQ. Mon. DAILY MX MEASUREMENT REQ. Mon. DAILY MX MEASUREMENT REQ. Mon. DAILY MX MEASUREMENT REQ. Mon. DAILY MX MEASUREMENT REQ. Mon. DAILY MX MEASUREMENT REQ. Mon. DAILY MX MEASUREMENT REQ. Mon. DAILY MX MEASUREMENT REQ. Mon. DAILY MX MEASUREMENT REQ. Mon. DAILY MX MEASUREMENT REQ. Mon. DAILY MX MEASUREMENT REARIF REQ. Mon. DAILY MX MEASUREMENT REPAIL REARIF REPAIL REPLONE REPAIL REPAIL REPAIL REPAIL REPAIL REPAIL REPAIL REPAIL REPLONE REPAIL REPAIL REPAIL REPAIL REPAIL REPAIL REPAIL REPAIL REPLONE REPAIL REPAIL REPAIL REPAIL REPAIL REPAIL REPAIL REPAIL REPLONE REPAIL REPAIL REPAIL REPAIL REPAIL REPAIL REPAIL REPAIL REPLONE REPAIL R	SAMPLE MEASUREMENT BECHINEMENT REQ. Mon. PERMIT REQUIREMENT SAMPLE MEASUREMENT REQ. Mon. PERMIT REQ. Mon.	VALUE VALUE UNITS VALUE VALUE UNITS CANALYSIS SAMPLE MEASUREMENT			

PERM	AITTEE	NAME	/ADDRE	22

NAME Exelon Generation Co., LLC

4300 Winfield Road ADDRESS

Warrenville, IL 60555-5701

FACILITY **Byron Nuclear Power Station LOCATION** 4450 North German Church Road

Byron, IL 61010

 IL0048313
PERMIT NUMBER

002-0 DISCHARGE NUMBER

	MONITORING PERIOD											
	MM/DD/YYYY		MM/DD/YYYY									
FROM	11/01/2012	то	11/30/2012									

DMR Mailing ZIP CODE:

MAJOR

(SUBR 01) CS

STORMWATER RUNOFF BASIN

External Outfall

*** NO DISCHARGE X

61010

DADAMETED		QUAI	ITTY OR LOADING	3	G	QUANTITY OR CONCENTRATION				NO. FREQUENCY	
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE:	VALUE	UNITS	EX	ANALYSIS	TYPE
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****					` .	
00530 1 0 Effluent Gross	DECUREMENT.		*		Salte.	A SODA AVG	DAILY MX	_mod_	3.3	Weekly	· GRAB
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	*****	*****	80000						
00530 8 0 Other Treatment, Process Complete	BERMIT BEOUBENEUT	1,000	3740	777	APP TENT	300A AXG	DAILY MX	тол.	N.	- Weekly	GRAB
Chromium, hexavalent as Cr)	SAMPLE MEASUREMENT	*****	490900	*****	*****						
01032 1 0 Effluent Gross	REQUIREMENT.		1077			.011 2000 AVG	.016 DAILY MX:	mo/L	2	Daily	GRAB
Chromium, total as Cr)	SAMPLE MEASUREMENT	*****	****	******	******						
D1034 1 0 Effluent Gross	BEQUIREMENT.	- 12 W		C de la Constantia		20DA AVG	DAILY MOX.	mo/.	2	Daily	GRAB
Copper, total as Cu)	SAMPLE MEASUREMENT	*****	0)2000	40000	*****						
01042 1 0 Effluent Gross	REQUIREMENT.	TO THE STATE OF		277		.025 2.30DA AVG	O41	TOO!	1	Daily	GRAB
ron, total as Fe)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****					
01045 1 0 Effluent Gross	PERMIT	27111		7007	6 12	STATE OF		mg/L		Daily	GRAB
.ead, total as Pb)	SAMPLE MEASUREMENT	*****	*****	*****	*****						
01051 1 0 Effluent Gross	- PERMIT - REQUIREMENT		14.77			.063 300A AVG	298 PAILY MX	mg/ ₄		Pally: +	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision i	in accordance with a s	ystem designed to assu	re that qualified	personnel	0 :-	. 1	TELEPHONE		DATE	
Benjamin P. Youman	who manage the system	properly gather and evalute the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the								<u> </u>	
Plant Manager	aware that there are sign	Information submitted is, to the best of my knowledge and beset, true, accurate, and complete. I am ware that there are significant penalties for submitting false information, including the possibility of the possibility o									Y

- 1. No Turbine Building Fire and Oil Sump or Generic Non-Chemical Metal Cleaning Wastewater was discharged this month.
- 2. No Fire Protection, Service Water or Closed Cooling System Drain Water was discharged this month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

_				
ч	-148	MILIEE	NAME/	ADDRESS

NAME Exelon Generation Co., LLC **ADDRESS** 4300 Winfield Road

Warrenville, il 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	
PERMIT NUMBER	

FROM

002-0	
DISCHARGE NUMBER	

MONITORING PERIOD MM/DD/YYYY MM/DD/YYYY 11/01/2012 11/30/2012 TO

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01)

STORMWATER RUNOFF BASIN

CS

External Outfall

*** NO DISCHARGE X

PARAMETER		QUAN	ITTTY OR LOADING	G	C	LUANTITY OR CON	CENTRATIO	N		NO.	FREQUENCY	SAMPLE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALU	E	UNITS	EX	ANALYSIS	TYPE
Nickel, total (as Ni)	SAMPLE MEASUREMENT	*****	*****	*****	******							
01067 1 0 Effluent Gross	PERMIT	agasee	900000		2 3 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	.011 300A AVG	176 DAILY		.mg/L		Daily :	GRAB
Zinc, total (as Zn)	SAMPLE MEASUREMENT	*****	*****	*****								
01092 1 0 Effluent Gross	PERMIT	The street	******	mu		2047 20DA AVG	.26 DAILY I	νįχ	mg/i-		. Qaily	GRAB
Oil and Grease	SAMPLE MEASUREMENT	*****	*****	*****	414999							
03582 1 0 Effluent Gross	BERMIT		Lance			15 30DA AVG	20 2 DAILY I	0 X	med	#	When Discharging	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT				*****	*****	*****		*****			
50050 1 0 Effluent Gross	REPUIT BEQUIREMENT	Fleg. Mon.	Fleq. Mon. DAILY MX	"- Moavd		2.87		*	*****		When Discharging	ESTIMA
	SAMPLE MEASUREMENT											
···	REQUIREMENT.		de la serie	1			60 - A 1					
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT				41.4							
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT		1		1			بورون چير په		, , ,		
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision is	in accordance with a s	ystem designed to assu	re that qualified	personnel			TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system information submitted is,	, or those persons dire	ectly responsible for gat	hering the infor	nation, the	IGNATURE OF PET	NCIPLE	815	406-3700		12/17/2012	
Plant Manager	aware that there are signal and imprisionment for	nificant penalties for su			Authoric (m)	EXECUTIVE OFFIC	ER OR	AREA	NUMBER		MM/DD/YYY	~
TYPED OR PRINTED	Inne and nichteren quent (or nationally vicionicitis.				AUTHORIZED AC	ENT	CODE	umben			·

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- 1. This discharge point was not used this month.
- 2. There was no discharge of processed steam generator chemical cleaning wastewater during the month.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

3



For Exelon Byron Station Permit IL0048313 November 2012 Page 1 of 3

MONITORING DATA:

MONITORING DATA:										
DATE	CWBD Temperature deg F	CWBD Flow mgd	Rock River Flow cfs							
11/01/2012	78.6	18.85	2280							
11/02/2012	78.6	17.29	2260							
11/03/2012	78.0	21.35	2270							
11/04/2012	78.0	13.75	2310							
11/05/2012	75.2	21.48	2200							
11/06/2012	75.3	18.99	2190							
11/07/2012	75.3	16.59	2170							
11/08/2012	78.0	19.01	2220							
11/09/2012	76.1	16.86	2170							
11/10/2012	82.8	21.39	2190							
11/11/2012	83.1	17.06	2290							
11/12/2012	83.1	13.66	2440							
11/13/2012	74.0	18.21	2270							
11/14/2012	74.0	17.48	2270							
11/15/2012	78.8	20.53	2310							
11/16/2012	78.8	17.97	2300							
11/17/2012	75.4	25.52	2250							
11/18/2012	78.5	19.54	2240							
11/19/2012	76.0	13.52	2210							
11/20/2012	82.8	21.90	2220							
11/21/2012	77.8	16.88	2210							
11/22/2012	84.6	18.34	2310							
11/23/2012	83.9	19.55	2240							
11/24/2012	72.2	29.28	2100							
11/25/2012	73.8	16.12	2080							
11/26/2012	75.8	14.28	2090							
11/27/2012	72.3	19.84	2080							
11/28/2012	74.4	18.57	2100							
11/29/2012	74.2	19.11	2060							
11/30/2012	78.4	19.36	2070							

For Exelon Byron Station Permit IL0048313 November 2012 Page 2 of 3

HYDRAZINE MONITORING:

There were no steam generator chemical cleaning solutions (or associated rinses) containing hydrazine discharged to the Cooling System Blowdown during the month of November 2012.

TOTAL QUANTITY DISCHARGED: N/A

TOTAL DURATION OF DISCHARGE: N/A

COMMENTS:

- 1. Sodium Hypochlorite and Bromine compounds were used this month.
- 2. There was no discharge of steam generator chemical cleaning wastewater containing hydrazine in this month.
- 3. Flow existed through this outfall 30 of 30 days.
- 4. Per Special Condition 24 the influent from the Rock River and effluent from Outfall 001-0 was monitored for Total Suspended Solids (TSS) this month. The Rock River TSS value was 5.5 mg/L on 11/12/2012. The CWBD TSS value was 5.0 mg/L on 11/12/2012.
- 5. Rock River flow was <2400 cfs starting on November 5, 2012 therefore daily temperature calculations were required during this time period. (Special Condition 12). Per Special Condition 12, in the event the Rock River flow is <2,400 cfs, daily calculations will be undertaken to demonstrate compliance with the water quality standard. The calculations are based on hourly measurements, averaged over a 24-hour calendar day for Rock River flow, main Rock River temperature, CW Blowdown flow, and CW Blowdown temperature values. Results of the calculations shall be reported in the DMR on a monthly basis. Calculation results are in the table on the following page.</p>
- 6. There was no discharge of the 126 Priority Pollutants from cooling tower maintenance chemicals in November 2012. (Special Condition 15).

For Exelon Byron Station Permit IL0048313 November 2012 Page 3 of 3

Date	Average	Average	Average	Average	Calculated	Water Quality
	Rock	CW M/U	CW	CW	Temperature	Standard
	River	Temperature	Blowdown	Blowdown	at edge of	Temperature
	Flow	(F) ·	Flow	Temperature	mixing zone	(F)
	(cfs)	` `	(gpm)	(F)	(F)	
11/05/12	2330	45	13239	71	45.6	90
11/06/12	2328	44	13075	72	44.9	90
11/07/12	2300	45	13129	74	45.6	90
11/08/12	2250	46	12379	75	47.0	90
11/09/12	2044	46	12133	78	47.3	90
11/10/12	2055	50	12171	84	50.9	90
11/11/12	2153	52	12158	82	53.1	90
11/12/12	2300	47	12246	70	48.1	90
11/13/12	2138	44	12738	69	44.8	90
11/14/12	2205	44	13600	73	45.3	90
11/15/12	2294	44	13475	74	45.1	90
11/16/12	2285	44	13613	75	44.9	90
11/17/12	2240	43	13692	76	43.8	90
11/18/12	2219	43	13713	78	43.8	90
11/19/12	2190	45	13688	78	45.9	90
11/20/12	2205	47	13663	80	48.2	90
11/21/12	2205	48	13600	78	48.6	90
11/22/12	2318	48	13417	83	48.8	90
11/23/12	2243	45	13538	69	45.4	90
11/24/12	2101	41	13638	71	42.4	90
11/25/12	2076	41	13646	74	42.8	90
11/26/12	2093	40	13721	72	41.4	90
11/27/12	2030	38	13592	69	39.1	90
11/28/12	1973	38	13683	73	39.1	90
11/29/12	1963	38	13571	74	39.9	90
11/30/12	2060	41	13596	75	42.2	90



Exelon Generation Company, LLC Byron Station 4450 North German Church Road Byron, IL 61010-9794 www.exeloncorp.com

Nuclear

January 17, 2013

LTR: BYRON 2013-0010

File: 2.09.0411

1.10.0101

Illinois Environmental Protection Agency Water Pollution Control Compliance Assurance Section #19 1021 North Grand Avenue East P.O. Box 19276 Springfield, IL 62794-9276

Subject:

Byron Station Monthly Discharge Monitoring Report

In accordance with National Pollutant Discharge Elimination System (NPDES) Permit Number IL0048313, issued January 24, 2011, we are submitting the Discharge Monitoring Report for Byron Station, Units 1 and 2. This report covers the period of December 1, 2012 through December 31, 2012.

If there are any questions regarding this report, please contact Ms. Zoe Cox, Environmental/Radwaste Supervisor, at (815) 406-3035.

Respectfully,

Benjamin P. Youman

Plant Manager

Byron Nuclear Generating Station

BPY/ZC/eh

Attachments

K. Hersey
bcc: J. Gould - Environmental - Cantera (electronic)
Z. Cox - Chemistry - Byron

Je 1-15-13



SPECIAL HANDLING TARGET

BEST AVAILABLE COPY	(Next <u>1</u>	pages)	
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OVERSIZED PAGE/DRAWINGREMOVED	(Next	pages)	
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To Be Completed	By Preparer:		
Document Number:			
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List of pages, documents or drawings removed:			

^{**} SEE SITE RECORDS MANAGEMENT FOR HARDCOPY LOCATION **

	DDRESS

NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station

LOCATION 4450 North German Church Road

Byron, IL. 61010

IL0048313]	
PERMIT NUMBER		DISCH

	A01-0	_	
DISCHA	RGE NU	MBER	

	MONITORING PERIOD				
	MM/DD/YYYY		MM/DD/YYYY		
FROM	12/01/2012	TO	12/31/2012		

DMR	Mailing	ZIP	CODE:
	enteres		

MAJOR

(SUBR 01)

DEMINERALIZER REGENERATE WASTE (001A)

CS

61010

External Outfall

*** NO DISCHARGE TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO.	FREQUENCY OF	SAMPLE	
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE		UNITS	EX	ANALYSIS	TYPE
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	*****	*****	******	1.1	1.2		19	0	01/30	08
00530 1 0 Effluent Gross	KREQUIREMENTS			· mark		300A AVG	30.	oct 5	ano/		Monthly by	COMPLE
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	*****	*****	400450	*****	3		- 7.			500	
01032 1 0 Effluent Gross	REQUIREMENT				PARTIE TO	SODA AVG	DAILYN	X S	not		Alba Daily Jack	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	tettes	******	*****	655050				2	2, 2, 2	500	
01034 1 0 Effluent Gross	RECUIRE VENEZA					SODA AVG	DAILY		mod_v		Daily	T GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	******	*****	estaca						500	
01042 1 0 Effluent Gross	RESUREMENTS		l'appair			30DA AVG	DALYN	X. A	Spot.		PPDX **	GRAN.
iron, total (as Fe)	SAMPLE MEASUREMENT	*****	******	*****	*****	*****					500	
01045 1 0 Effluent Gross	DE NIBENENDA				A STATE OF	E SERVE	PALY	X.E	mod ?		Tank 3	GRAR
Lead, Total (as Pb)	SAMPLE MEASUREMENT	*1****	*****	*****	*****						500	
	RESULTENENTS				K.W.	P SODA AVG	DAILM		no4		May Daily a	GRAB
Nickel, total (as Ni)	SAMPLE MEASUREMENT	*****	*****	*****	*****						500	
D1067 1 0 Effluent Gross	BEOTIBENEVE					30DA AVG	DAILX	X ·) mod =	y 4.	Daily 1	GRAB
	I certify under penalty of direction or supervision to	accordance with a sy	stem designed to assu	re that qualified	personnel			TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation who manage the system, information submitted is,	or those persons dire	ctly responsible for gath	nering the inform	nation, the	SIGNATURE OF PR		815	406-3700		01/17/2013	,
	aware that there are sign fine and imprisionment to	ificant penalties for su				EXECUTIVE OFFICE		AREA	NUMBER		MM/DD/YYY	Υ
COMMENTS AND EXPLANATI	ON OF ANY VIOLAT	TONS (Reference	all attachments h	ere)		AUTHORIZED A	GENI	CODE				
There was no discharge of p Flow existed 31 of 31 days d	rocessed steam gen				onth.							
EPA Form 3320-1 (Rev 01/06) (Previous editions ma	v be used.									1/8/2012	PAGE

PERMITTEE	NAME/ADDRESS
NAME	Exelon Generation Co., LL
ADDRESS	4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byron, IL 61010

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iL0048313		
DEDMIT NI IMBED	1	

A01-0 DISCHARGE NUMBER

	MONITORING PERIOD					
	MM/DD/YYYY		MM/DD/YYYY			
FROM	12/01/2012	то	12/31/2012			

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01)

CS

DEMINERALIZER REGENERATE WASTE (001A) External Outfall

•	• NO	DISCHARGE		• •	٠

(as Zn) D1092 1 0 Effluent Gross Flow, in conduit or thru reatment plant 50050 1 0 Effluent Gross MEA REC MEA	SAMPLE	VALUE			1	QUANTITY OR CONCENTRATION				NO. FREQUENCY		SAMPLE
(as Zn) D1092 1 0 Effluent Gross Flow, in conduit or thru reatment plant 50050 1 0 Effluent Gross MEA REC MEA			VALUE	UNITS	VALUE	VALUE	VALUI	E	UNITS	EX	ANALYSIS	TYPE
Effluent Gross Flow, in conduit or thru treatment plant 50050 1 0 Effluent Gross MEA REC MEA	SUREMENT		*****	*****	*****						500	
reatment plant 50050 1 0 Effluent Gross MEA REQ MEA REQ MEA REQ MEA	PEBMIT	pyetro		-177		30PA AYG	2 DALY)		M9/L **	d is a	Daily	GRAB
Effluent Gross MEA REQ MEA REQ MEA REQ MEA	SAMPLE SUREMENT	0.057	0.243	3	*****	******	*****		*****	0	د 01/01 ء	ES
MEA REC MEA REC MEA	REPAIT NUREMENT	Req. Mon. 2008 AVG	Req. Mon.	Moave			11.11		23.132		Daily	сорти
MEA MEA REO MEA	SAMPLE SUREMENT			, <u></u>								
MEA	PERMIT MIREMENT				10 m			ر با	10		1	35.45
MEA	SAMPLE SUREMENT											
MEA TO REC	REPAIT *** NUREMENT: SAMPLE						- A	2. i.	35.33 27.00			
REG	SUREMENT		1 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 S COV		1			······	··. ;		1 5 75
	PERMIT DUIREMENT BAMPLE SUREMENT							100				
AEC	RERMIT NJIBEMENT				102.72							
MEA	SAMPLE SUREMENT											
	NIBENEUT .	22.		120			7 450		in the Books	3.3		17.8
			t and all attachments waystem designed to assu			_		TEL	EPHONE		DATE	
Benjamin P. Youman who ma	unage the system	, or those persons dire	bmitted. Based on my in ectly responsible for gath wiedge and belief, true,	hering the inforr	nation, the	SIGNATURE OF PR		815	406-3700		01/17/2013	J
Plant Manager aware to	that there are sign		bmitting false information			EXECUTIVE OFFICE	CER OR	AREA	NUMBER		MM/DD/YYY	·Y
COMMENTS AND EXPLANATION OF	F ANY VIOLA	TIONS (Reference	e all attachments h	iere)		AUTHORIZED		PODE	<u></u>	·		- · · · · · ·
. Flows for December 2012 are estin	nated based o	n July 2012 value		•	ervice. The tota	lizers are an obsolete	model and w	ork ord	ers are in pla	ice to fin	nd	
EPA Form 3320-1 (Rev 01/06) Pre											1/6/2012	PAGE

DISCHARGE MONITORING REPORT (DMR)

PERM	ATTEE	NAME	ADD	RESS

NAME Exelon Generation Co., LLC ADDRESS

4300 Winfield Road Warrenville, IL 60555-5701

FACILITY **Byron Nuclear Power Station** LOCATION 4450 North German Church Road

D.,	11	61010
	4	01010

#	
IL0048313	B01-0

150040010	501-0
PERMIT NUMBER	DISCHARGE NUMBER

	MONITO	RING	PERIOD
	MM/DD/YYYY		MM/DD/YYYY
FROM	12/01/2012	то	12/31/2012

MAJOR

(SUBR 01)

STP PLANT EFFLUENT (FORMER 0018) External Outfall

CS

*** NO DISCHARGE

61010

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION						FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE		UNITS	EX	ANALYSIS	TYPE
OD, 5-Day 20 Deg. C)	SAMPLE MEASUREMENT	0.20	0.23	26	*****	4.0	4.0		19	0	02/30	24
0310 1 0 ffluent Gross	REPULE	5.3 SODA AVO	10.5 DAILXAX	194	prop.	30 30DA AVG	PAILY M	X.	mo/L	13.5	Twice Par Month	COMP24
н	SAMPLE MEASUREMENT	*****	*****	******	7.24	******	7.46		12	0	02/30	GR
0400 1 0 ffluent Gross	REPME		· PW		ANNIMUM S		MAXIMUI		su.		Twice Per Month	GRAB
olids, total suspended	SAMPLE MEASUREMENT	0.10	0.12	26	89999	1.9	2.0		19	0	02/30	24
0530 1 0 ffluent Gross	BEONIBENEVE	5.3 30DA,AVG	PAILY MX	PM P		SODA AVG	60 L DAILY M		mod.		Twice Per Month	COMPS
low, in conduit or thru eatment plant	SAMPLE MEASUREMENT	0.004	0.008	3	*****	******	*****		44444	0	01/01	CN
0050 1 0 ffluent Gross	REQUIREMENT	Reg. Mon.	Reg. Mon.	Moald			6 ************************************		etime >		Daily	CONTIN
	SAMPLE MEASUREMENT											
	REPUT											
	SAMPLE MEASUREMENT											
·	REQUIREMENT.	1 75	42.4	30,100		P. 4 . 4	* **		2	94.00 - 20.00		
	SAMPLE MEASUREMENT											
	REBUIT		C. V. 16.4		***	经验的				1.3		
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision to	taw that this document in accordance with a s	nt and all attachments w vistem designed to assu	ere prepared un	der my personnel			TELE	PHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system information submitted is,	ute the information sui , or those persons din	brnitted. Based on my i actly responsible for gat	inquiry of the per hering the infor	son or persons ation, the	IGNATORE OF PRI		815	06-3700		01/17/2013	
Plant Manager	aware that there are sign fine and imprisionment to		ubmitting talse informati	on, including the	possibility of	EXECUTIVE OFFIC		AREA ,	UMBER		MM/DD/YYY	Υ
TYPED OR PRINTED		_			l l	AUTHORIZED AC	áeni (ODE '				

PERMITTEE NAME/ADDRE	SS	
----------------------	----	--

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	
PERMIT NUMBER	

FROM

C01-0 DISCHARGE NUMBER

MONITO	RING PER	IOD
MM/DD/YYYY		MM/DD/YYYY
12/01/2012	то	12/31/2012

DMR Mailing ZIP CODE:

MAJOR (SUBR 01)

CS

WWTP (FORMER 001C) External Outfall

*** NO DISCHARGE ...

61010

ATTN: Zoe Cox/ENV SPEC		QUANTITY OR LOADING				QUAN	TITY OR CON	NO.	FREQUENCY	SAMPLE			
PARAMETER		VALUE	VALUE	UNITS	VALUE		VALUE	VALUI	E _	UNITS	I EY I	ANALYSIS	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****		5.8	6.2		19	0	02/30	24
00530 1 0 Effluent Gross	BEOURENEND	d'anni i		Name of the last	THE CHIEF		15 PO	DAIL KA		mo/s		Twice Ber Month	COMP24
Chromium, hexavalent as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	•••••		_ :					500	
01032 1 0 Effluent Gross	ASECHIPENENT	ti en i	· James Oct				SODA AVG	DAILY	ox 🖏) med		Page 1	GRAR
Chromium, total as Cr)	SAMPLE MEASUREMENT	*****	******	*****	*****							500	
01034 1 0 Effluent Gross	REQUIREMENT	Town &		L. week			SODA AVG	LOAKYA	O A	imo/L	200	****Daily: X**	GRAB
Copper, total as Cu)	SAMPLE MEASUREMENT	*****	******	*****	*****							500	
D1042 1 0 Effluent Gross	ASSESTING LEASES	A SERVICE OF					30DA AVG	DALLY	or T	more		Day of	GRAB
ron, total as Fe)	SAMPLE MEASUREMENT	*****	******	*****	*****		*****					500	
01045 1 0 Effluent Gross	SECTION PARTY			E-mus			SET IS	DAILYA	OX.	7 mod s		Se Daily	GRAB
.ead, total as Pb)	SAMPLE MEASUREMENT	*****	******	*****	*****							500	
	SECTION OF A						200AAVG	BAILY	20	med		TO SOUND SE	PARO
vickel, total as Ni)	SAMPLE MEASUREMENT	*****	*****	*****	*****							500	
01067 1 0 Effluent Gross	RECUREMENTS	S. BULL		7			30DA AVG	DAILY I	Ř.	1004		PW 15	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	t certify under penalty of direction or supervision b								TE	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system information submitted is,	, or those persons din	actly responsible for gatl	hering the infor	nation, the	SIGN	TURE OF PAI	NCIPLE	815	406-3700		01/17/2013	,
Plant Manager	aware that there are sign fine and imprisionment to	ificant penalties for su	bmitting false information	on, including the	possibility of	EXE	CUTIVE OFFIC	ER OR	AREA	NUMBER		MM/DD/YYY	Υ
COMMENTS AND EXPLANAT	ION OF ANY VIOLA	TONS (Reference	ali attachments h	iere)		AL	UNILLU AU		CODE		L		
. There was no discharge of p 2. Flow existed through this out	rocessed steam gen	erator chemical ci		•	onth.								
EPA Form 3320-1 (Rev 01/0	06) Previous editions	may be used										1/6/2012	PAGE

DISCHARGE MONITORING REPORT (DMR)

DMR Mailing ZIP CODE: MAJOR

(SUBR 01)

61010

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road Byron, iL 61010

MM/DD/YYYY 12/01/2012 FROM

IL0048313

PERMIT NUMBER

MONITORING PERIOD MM/DD/YYYY

C01-0

DISCHARGE NUMBER

12/31/2012

WWTP (FORMER 001C) External Outfall

*** NO DISCHARGE

CS

ATTN: Zoe Cox/ENV SPEC

PARAMETER		AUD	VITTY OR LOADIN	G	l	QUANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	ANALYSIS	TYPE
Zinc, total (as Zn)	SAMPLE MEASUREMENT	*****	61207*	*****	*****					500	
01092 1 0 Effluent Gross	BEQUIBEMENT		1374	*****	TAPES C	30DA AVG	DAILYMX	ne4		Park 1	GRAB
Flow, in conduit or thru reatment plant	SAMPLE MEASUREMENT	0.025	0.037	3	******	******	*****	*****	0	01/01	CN
50050 1 0 Effluent Gross	STEEL BELLEVIE	Reg. Mon.	Reg. Mon	Moal/d	AL PROPERTY.		KANEE .			1000	SOUTH
	SAMPLE MEASUREMENT										
	PERMIT PEOUBEMENT SAMPLE MEASUREMENT										
	SAMPLE MEASUREMENT										
	REPUIT SAMPLE MEASUREMENT										* 0 3
	REQUIREMENT SAMPLE MEASUREMENT										
	PERMIT					1000					
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision is							TELEPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system information submitted is,	, or those persons dire	actly responsible for gati	hering the inform	nation, the	SIGNATURE OF PAR		15 406-3700		01/17/2013	
	aware that there are sign fine and imprisionment to	ificant penalties for su				EXECUTIVE OFFICE		EA NUMBER		MM/DD/YYY	Υ
COMMENTS AND EXPLANATI	ION OF ANY VIOLA	NONS (Reference	all attachments h	nere)		AUTHORIZED AC	SENI CO	DE	L		
EPA Form 3320-1 (Rev 01/0	NS) Broving adition									1/6/2012	PAGE

OED!	ATTES	MARKE	ADDRESS
PER	ALL LEE	NAME	WUNKESS

NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	D01-0
PERMIT NUMBER	DISCHARGE NUMBER

		MONITORING	PERIOD	
	MM/DD/YYYY		MM/DD/YYYY	
FROM	12/01/2012	то	12/31/2012	

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01)

RADWASTE TREATMENT (FORMER 001D)

CS

External Outfall

···NO DISCHARGE

ATTN: Zoe Cox/ENV SPEC		QUAI	VITTY OR LOADING	3		QI	JANTITY OR CON	CENTRATIO	N		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE		VALUE	VALU	E	инпъ	EX	ANALYSIS	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	*****	*****	*****	*****		<0.3	<0.5		19	0	02/30	CP
00530 1 0 Effluent Gross	REBUIL	A SUPERIOR			177	4	A5 30DA AVG	DAILY	X.	mo/		Twice Bar Month	COMPOS
Flow, in conduit or thru reatment plant	SAMPLE MEASUREMENT	0.022	0.022	3	*****		*****	*****		******	0	01/01	CN
50050 1 0 Effluent Gross	RECHIBEMENT SAMPLE MEASUREMENT	Reg. Mon	Rea. Mon.	a Moal/d									CONTIN
	REPUIR TO SAMPLE MEASUREMENT												
	REQUIREMENTS SAMPLE						C. Carali						X .
	MEASUREMENT PERMIT RECUIREMENT SAMPLE								Vis				
	MEASUREMENT REQUIREMENT SAMPLE MEASUREMENT							*** *********************************	r v			5000	
	BERMIN					Į.	. in 44%	W. 14.	V.				
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision is						·	<u> </u>	TEL	EPHONE.		DATE	
Benjamin P. Youman	properly gather and evaluation who manage the system information submitted is,	ute the information sui	bmitted. Based on my in actly responsible for gat	nquiry of the per hering the infor	rson or persons	SIG	Sman PC	NCIPLE	815	406-3700		01/17/2013	1
Plant Manager	aware that there are sign fine and imprisionment for	rificant penalties for su	ibmitting false information	on, including the	possibility of	E	EXECUTIVE OFFIC		AREA	INUMBER		MM/DD/YYY	Y
COMMENTS AND EXPLANAT Flow existed through this ou		•	all attachments h	ere)									
EPA Form 3320-1 (Rev 01/	06) Previous editions	may be used.										1/6/2012	PAGE

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY LOCATION 4450 North German Church Road

Byron Nuclear Power Station Byron, IL 61010

IL0048313 PERMIT NUMBER

FROM

E01-0 DISCHARGE NUMBER

MONITORING PERIOD MM/DD/YYYY MM/DD/YYYY 12/31/2012 12/01/2012 TO

DMR Mailing ZIP CODE:

61010

MAJOR (SUBR 01)

CS

STORMWATER (FORMER 001E)

External Outfall

*** NO DISCHARGE X

ATTN: Zoe Cox/ENV SPEC

		QUAN	ITTTY OR LOADING	3	0	UANTITY OR CON	NO.	FREQUENCY	SAMPLE		
PARAMETER		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	EX	ANALYSIS	TYPE
Solids, total suspended	SAMPLE MEASUREMENT	*****	200202	*****	*****					500	
00530 1 0 Effluent Gross	REQUIREMENTS		- APPL 48	WELL THE		30DA AVG	DAILY MX	The state of		Weekly	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	*****	*****	*****	16.1	18.2	19	0	01/07	GR
00530 8 0 Other Treatment, Process Complete	REQUIREMENT					SODANG	IOO DAIL MANAGE			No.	GFAB
Chromium, hexavalent (as Cr)	SAMPLE MEASUREMENT	****	******	*****	*****					500	
01032 1 0 Effluent Gross	REQUIREMENTS		A MEN ST	A WEST		30DA AVG	DAIL Y MX AL	V mo#≥s	1	Pally by	GRAB
Chromium, total as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
	BEOMBENENT:			June 1		TO SODA AVG	DAILYMX	, gg/ i	V.	Pany w	GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
	SHEDING A	CASC MAN DA				SODA AVO	DAILYMX	s mod sign		O Dally	GRAB
ron, total (as Fe)	SAMPLE MEASUREMENT	*****	******		*****	*****				500	
01045 1 0 Effluent Gross	BEOUBENEN	at some in	2.500.2			C. CARCO	DALXMX	->mpl		Paly	GRAB
ead, total (as Pb)	SAMPLE MEASUREMENT	*****	*****	*****	*****					500	
01051 1 0 Effluent Gross	REQUIREMENT	art Dex		711	and the same of	30DA AVO	DAILYMX	. 1994		Park 3	GRAB
PRINCIPAL EXECUTIVE OFFICER	i centify under penalty of direction or supervision i	n accordance with a sy	ystem designed to assu	re that qualified	personnel	0	TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation manage the system information submitted is,	, or those persons dire	actly responsible for gatt	hering the inform	nation, the	IGNATURE OF THE	NCIPLE 815	406-3700		01/17/2013	
Plant Manager	aware that there are sign fine and imprisionment fo	nificant penalties for su			androton ran [INUMBER	MM/DD/YYYY		

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- 1. There was no discharge of processed steam generator chemical cleaning wastewater during the month.
- 2. Flow existed through this outfall 0 of 31 days during the month.
- 3. There was no flow from this outfall this month however Fire Protection drain water was discharged to this outfall this month which requires TSS sampling.

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

NAME Exelon Generation Co., LLC ADDRESS 4300 Winfield Road

Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	E01-0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD MM/DD/YYYY MM/DD/YYYY 12/31/2012 12/01/2012 TO

DMR Mailing ZIP CODE:

MAJOR

(SUBR 01)

CS

STORMWATER (FORMER 001E)

External Outfall

*** NO DISCHARGE X

61010

DAGAMETED		QUAI	NTTY OR LOADING	3′		QI	JANTITY OR CON	CENTRATIC	N		NO.	FREQUENCY	SAMPLE
PARAMETER		VALUE	VALUE	UNITS	VALUE		VALUE	VALU	E	UNITS	EX	ANALYSIS	TYPE
Nickel, total (as Ni)	SAMPLE MEASUREMENT	*****	5 20100	*****	*****							500	
01067 1 0 Effluent Gross	BEQUIREMENT	NAME OF			AS THE	7	SODAAVG	P DAILY	wx. X	004	1	Dale :	GRAB
Zinc, total (as Zn)	SAMPLE MEASUREMENT	*****	*****	*****	*****							500	
D1092 1 0 Effluent Gross	REQUIREMENT		A-100 S	THURS.	A SPEC		30DA AVG	DAILY	VOX S	a mode		Ser Oaly > 1	GRAB
Flow, in conduit or thru reatment plant	SAMPLE MEASUREMENT		•		400000		******	*****		*****		500	
50050 1 0 Effluent Gross	*BECUIREMENT	Reg Mon.	Req. Monda	Moeld	AN HERV		Carry of				¥	Twice Res Month	CONTIN
	SAMPLE MEASUREMENT	•											
	BENTIREMENT	# W/W		100					4	1 19			
	SAMPLE MEASUREMENT												
	PERMIT		See al Si										
-	SAMPLE MEASUREMENT												
	REQUIREMENT.			7									
	SAMPLE MEASUREMENT												
	REPAIR	200			4		121-12-1						
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision in								TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evaluation who manage the system.	ite the information sub or those persons dire	bmitted. Based on my in actly responsible for gath	rquiry of the per name the inform	son or persons and the		SNATURE OF PRI	NCIPLE	815	406-3700		01/17/2013	
Plant Manager	information submitted is, aware that there are sign fine and imprisionment for	ificant penalties for su					XECUTIVE OFFICE	ER OR	AREA	NUMBER		MWDDYYY	Υ
TYPED OR PRINTED COMMENTS AND EXPLANAT	<u> </u>						AUTHORIZED AG	ENT	CODE				

IENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- 1. No Closed Cooling System Drain Water was discharged this month.
- 2. No Service Water System drain water was discharged this month.
- 3. No Turbine Building Fire and Oil Sump or Generic Non-Chemical Cleaning wastewater was discharged this month.

FROM

EPA Form 3320-1 (Rev 01/06) Previous editions may be used.

1/6/2012

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road

4300 Winfield Road Warrenville, IL 60555-5701

FACILITY Byron Nuclear Power Station
LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	001-0
PERMIT NUMBER	DISCHARGE NUMBER

| MONITORING PERIOD | MM/DD/YYYY | MM/DD/YYYY | FROM | 12/01/2012 | TO | 12/31/2012 |

DMR Mailing ZIP CODE:

61010

MAJOR

(SUBR 01) CS

COOLING SYSTEM BLOWDOWN

External Outfail

*** NO DISCHARGE ***

PARAMETER		QUAI	TITTY OR LOADING	G		QUANTITY OR CON	CENTRATIC	N		NO.	FREQUENCY	SAMPLE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALU	E	UNITS	EX	ANALYSIS	TYPE
Temperature, water deg. Fahrenheit	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	90.5		15	0	01/01	CN
00011 1 0 Effluent Gross	THEOMBENE WAS	A PROPERTY.	S. Burney		THE STATE OF THE S		Req. M		≯ deg E		2 Paily	CONTIN
pH ·	SAMPLE MEASUREMENT	*****	*****	*****	8.53	*****	8.71		12	0	01/07	GR
00400 1 0 Effluent Gross	REQUIREMENT	# #W	AND C		MINIMUM	alle de	MAXIM	Mic	∴ SH.		Weeky	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	******	*****	*****	*****	4.2	4.2		19	0	01/30	GR
00530 1 0 Effluent Gross	RECUIRENENS	TOTAL SE	Yang S	- 241	ALTERNATION OF THE PARTY OF THE	Req. Mon.	Req. M	n	/mg/1		Month	GRAB
Oil & Grease	SAMPLE MEASUREMENT	*****	44556	*****	******	<1.4	<1.4		19	0	01/07	GR
00556 1 0 Effluent Gross	CHEQUIRENEWS.		E-7118-14			BODA AVG	20 DAILY		e moltos		Weekly -	GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	******	*****	******	******	<0.002	1	19	0	01/07	GR
01034 1 0 Effluent Gross	REQUIREMENTS.		i wy y Sa				. DALLE		00/		Meekly 3	1 GRAB
Copper, total (as Cu)	SAMPLE MEASUREMENT	*****	404480	*****	******	******	0.038		19	0	01/07	GR
D1042 1 0 Effluent Gross	REQUIREMENT		1	1			0.071 DAILY	OX -	. 000/		Weakly **	GRAB
Zinc, total (as Zn)	SAMPLE MEASUREMENT	*****	g88888	*****	*****	<0.005	0.014		19	0	01/07	GR
01092 1 0 Effluent Gross	REQUIREMENT				Mary .	213 30DA AVG.	433 DAILY	NX AX	m94 j		Weekly	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision is							TEL	EPHONE		DATE	
Benjamin P. Youman	properly gather and evalue who manage the system,	ite the information sul , or those persons dire	emitted. Based on my in actly responsible for gath	nquiry of the per hering the inform	rson or persons nation, the	SIGNATURE OF PRI	NCIPLE	815	406-3700		01/17/2013	
Plant Manager	information submitted is, aware that there are sign	ificant penalties for su				EXECUTIVE OFFIC		AREA				
ITPED ON PROJECT	fine and imprisionment to					AUTHORIZED AG	ENT	CODE	NUMBER		MM/DD/YYY	Y
COMMENTS AND EXPLANATI . Monitoring data for outfall 00			all attachments h	ere)								-
PA Form 3320-1 (Rev 01/06) I	Previous editions ma	v be used.					 -				1/6/2012	PAGE

			ı			ISCHARGE ELIN	MINATION SYST	EM (NPDES)	DMR Mailin	na ZIP C	ODE:	61010			
PERMITTEE I	NAME/ADDRESS								MAJOR						
MAME	Exelon Generatio	n Co., LLC		IL004	18313		001-0			(SUBR 01) CS					
ADDRESS	4300 Winfield Ro	ad		PERMIT	NUMBER		DISCHARGE NUMBER								
	Warrenville, IL 60	655-5701							COOLING	SYSTEM	BLOWDOWN				
					MONITORING PERIOD						External Outfall				
	Byron Nuclear Po			MM/DD/YYYY			MIM/DD/YYYY		···NO DISCHARGE						
				12/01	/2012	то	12/31/2012								
	Byron, IL 61010 ox/ENV SPEC							· · · · · · · · · · · · · · · · · · ·				_			
			QUAN	ITITY OR LOADING	G	C	CENTRATION			FREQUENCY	044401.5				
PAR/	METER	\nearrow	VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	NO. EX	OF ANALYSIS	SAMPLE TYPE			
Oxidants, tota	l residual	SAMPLE MEASUREMENT	******	*****	*****	******	*****	0.04	19	0	01/07	GR			
34044 1 0 Effluent Gross	.	DERMIT OF	THE PARTY OF	A CONTRACT	THE R. L.	NAME OF STREET	A LANGE OF	DAI YAX	mo/		Weekly	GRAB			
Priority polluta	ints total effluent	SAMPLE MEASUREMENT	*****			*****	*****				500				

Oxidants, total residual	SAMPLE	******	*****	*****	*****	*****	0.04		19	0	01/07	I GR
24044 1 0	MEASUREMENT		D	Erro Nacional								
34044 1 0 Effluent Gross	** DEBMO	THE PARTY OF	A. THEFA	THE STATE OF	144.494	10 MP9 4	O5 DAILS	√ ⊗.	mg/L		¿ Weekly	GRAB.
	SAMPLE	病(Z)(表) 2000 (A)		9.4 11.1	スプールング (株の名) 40g				C. C. C.		CAPE SE	
Priority pollutants total effluent	MEASUREMENT	*****		Ì	******	******	•			İ	500	Í
50008 1 0	TOPERMINEN.	Section 1885	Beg. Mon.				Reg. Mg	محفائها	A. 144.4	- 24	de la la la la la la la la la la la la la	ed 53:
Effluent Gross	DECUMENTOR		ENTE WAY	State of the state of			CONTRACT.	X	mod.		A Masky.	GRAH
Flow, in conduit or thru	SAMPLE	19.65	25.55	3	*****	*****	*****		*****	0	01/01	011
treatment plant	MEASUREMENT									0	01/01	CN
50050 1 0	AT DEPAIR WE	Pen Mon	Beg Mon	MaaVd		A Person	13CF accessor		Ceres.	1	A Daily	CONTIN
Effluent Gross	REQUIREMENTS	\$330DA AVSES	THE DALMAN					12.				**************************************
Chlorine, total residual	SAMPLE MEASUREMENT	*****	*****	254489	*****	*****					500	ĺ
50060 1 0	MEASUREMENT AND AND AND AND AND AND AND AND AND AND	Making to See Sign	Total Carella	of the Carlotte	1.5 eE2 10 1.5 W.	Secure service and the Secure	1000 C 00 25	7.792	1.65. 2 7(0	Parinter of	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
Effluent Gross	REQUIREMENT			La la la la la la la la la la la la la la	# # W 1	A HIP IT	O5." PDAILX M	Y	TARDS *	***	Weeky S	GRAB.
	SAMPLE	C APAR DESTRUCTION &	Construction of the Constr	Sept Mary 12 1 1 1 1 1 1 1 1 1	to the second of	CONTRACTOR CONTRACTOR	20-20 Sept. 12	2.3 2331	- Care (1997)	1000	D. dec. and the state of the	
Hydrazine	MEASUREMENT	*****	*****	20000	*****			ĺ			500	1
81313 1 0	PERMIT	C. Sansanan S.	A Second State of			.011		3.30	Sec. Sec.	الإعامان	- Daily When	
Effluent Gross	RECUREMENT					.011		X X		* **	. Discharging	GRAB
	SAMPLE											
	MEASUREMENT					· · · · · · · · · · · · · · · · · · ·						
	A SPERMINES !			1343	4.00		2000	, X		32		
	SAMPLE			7				47.	4 14 30 14	é Par 🌣	laste to the care	3445
	MEASUREMENT											i
	DEBMIN	College Courts and Book Section (Co.)	المعدودة المحاصلين بأبك وضور	oresista to o cult	Non-March (Nathar)	South Barrier British			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SPERMIN		
	REQUIREMENT	A 124	6 2 20 2				7-1-1					- The Later
NAME/TITLE	certify under penalty of					And the same of the same of		WC .	EPHONE	F-223.	200	The Carlot of the Carlot
PRINCIPAL EXECUTIVE OFFICER	direction or supervision is	1 accordance with a sy	stem designed to assu	re that qualified	personnel	0 211	L				DATE	
Benjamin P. Yournan	properly gather and evaluation who manage the system.	ne those persons dire	amuteti. Isaseti on my t Ictiv responsible for dati	rquary or the per nering the inform		Smyl Co		815	406-3700		01/17/2013	ł
Plant Manager	information submitted is,	to the best of my know	wledge and belief, true,	accurate, and c	omplete. I am	GNATURE OF PRI	NCIPLE					
	aware that there are sign		bmitting false information	on, including the	possibility of	AUTHORIZED AG		AREA	NUMBER		MM/DD/YYY	Y
COMMENTS AND EXPLANATI	fine and imprisionment to	TONS (Reference	all attachments h			AUTHORIZED AU	real (CODE				
	OH OF MAT VIOLA	ing (neigibile)) का दरस्रिटशास्त्र ा ष्ट्रि श	u dj								

EPA Form 3320-1 (Rev 01/06) Previous editions may be used. 1/8/2012 PAGE 2

DISCHARGE MONITORING REPORT (DMR)

002-0 IL0048313 DISCHARGE NUMBER MAJOR (SUBR 01) CS 61010

DMR Mailing ZIP CODE:

STORMWATER RUNOFF BASIN External Outfail

***NO DISCHARGE X

FROM

MONITORING PERIOD MM/DD/YYYY MM/DD/YYYY 12/31/2012 12/01/2012 то

PERMIT NUMBER

ATTM: Zoo Cow/ENIV CDEC

PERMITTEE NAME/ADDRESS

ADDRESS 4300 Winfield Road

NAME

FACILITY

Exelon Generation Co., LLC

Warrenville, IL 60555-5701

Byron Nuclear Power Station

LOCATION 4450 North German Church Road

Byron, IL 61010

PARAMETER		QUANTITY OR LOADING QUANTITY OR CONCENTRATION						NO.	FREQUENCY	SAMPLE		
ronosti i in		VALUE	VALUE	UNITS	VALUE	VALUE	VALU	E	UNITS	EX	ANALYSIS	TYPE
Solids, Total Suspended	SAMPLE MEASUREMENT	*****	******	*****	*****		_					
00530 1 0 Effluent Gross	REQUIREMENT	3 STP-17	i i	400	E-William	300AAVG	30 PALX	X X	pol.		Weekly	GEAR
Solids, Total Suspended	SAMPLE MEASUREMENT	****	******	******	*****							
00530 8 0 Other Treatment, Process Complete	PERMIT :					30 AVC 2	S 100 DALY	O.	sypoles of		A Weekly C	GRAB
chromium, hexavalent as Cr)	SAMPLE MEASUREMENT	*****	******	*****	*****						•	
01032 1 0 Effluent Gross	SECHIBENENE SECHIBENENE	THE PARTY				ODAAVG	O16 C-DAILY	OX.	mo/s		Delly (1)	- GRAB
Chromium, total (as Cr)	SAMPLE MEASUREMENT	*****	*****	*****	470400				-			
01034 1 0 Effluent Gross	SHEOMINE NEWS			Same &	THE THE	30DA AVG	Z DAIIX	OX P	mod		TauDally 194	GRAB
Copper, total as Cu)	SAMPLE MEASUREMENT	*****	******	*****	*****							
D1042 1 0 Effluent Gross	SESTIMENTS OF				A Property	2 300A AVG-2	DAILY	X.	mo/		Pally	OPAB
ron, total (as Fe) 01045 1 0	SAMPLE MEASUREMENT	******	27, 77, 97, 97, 57	*****	*****	000000						
Effluent Gross	BEOTHEMENE		A CONTRACT		11.7% 1		PALY	X.	Spot .		S Day	GRAB
.ead, total as Pb) 01051 1 0	SAMPLE MEASUREMENT	###### 2	******	*****	*****							
Effluent Gross	REQUIREMENTS				THE PERSON	30DA AVG	DAILY	OC.		7.2	Daily	GRAP
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision i	n accordance with a s	stem designed to assu	ne that qualified	personnel	TELEPHON			EPHONE	DATE		
	properly gather and evalute the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of line and imprisionment for knowing violations.					SIGNATURE OF PRINCIPLE		815	406-3700		01/17/2013	
						EXECUTIVE OFFICER OR			I NUMBER	MM/DD/YYYY		
COMMENTS AND EXPLANAT	ION OF ANY VIOLA	TIONS (Reference	all attachments h	ere)			· · · · · · · · · · · · · · · · · · ·	CODE	1			
 No Turbine Building Fire and No Fire Protection, Service \ 	l Oil Sump or Generi	c Non-Chemical M	etal Cleaning Wast	ewater was o	•	onth.						

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1/6/2012

PERMITTEE NAME/ADDRESS

NAME Exalon Generation Co., LLC
ADDRESS 4300 Winfield Road

Warrenville, II 60555-5701

FACILITY Byron Nuclear Power Station

LOCATION 4450 North German Church Road

Byron, iL 61010

IL0048313	002-0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

MM/DD/YYYY MM/DD/YYYY

FROM 12/01/2012 TO 12/31/2012

DMR Mailing ZIP CODE:

61010

MAJOR (SUBR 01)

CS

STORMWATER RUNOFF BASIN

External Outfall

*** NO DISCHARGE X

PARAMETER		QUAI	NTITY OR LOADIN	G	QUANTITY OR CONCENTRATION					NO.	FREQUENCY	SAMPLE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	E	UNITS	EX	ANALYSIS	TYPÉ
Nickel, total (as Ni)	SAMPLE MEASUREMENT	*****	*****	*****	*****							
01067 1 0 Effluent Gross	BEOTHERENE			7.22		011 SA 80DA AVG	176 VE DAILY		. po/	1	Pally	GRAB
Zinc, total (as Zn)	SAMPLE MEASUREMENT	*****	*****	*****								,
D1092 1 0 Effluent Gross	REQUIREMENT	A TOP OF	B. Branc			947 27-300A AVG	DAILY N	α	1-mg/-	, Carr	Pary of	GRAB
Oil and Grease	SAMPLE MEASUREMENT	. *****	0004**	401000	*****					7.57		
03582 1 0 Effluent Gross	DECUMENTAL			T WAY	A. C.	15 15 300A AVG	DAILYA	OX.	and S	1	- When Discharging	GBAB
Flow, in conduit or thru reatment plant	SAMPLE MEASUREMENT			370 to 11 a s	**************************************	000000	*****		*****	11 3.44	1475	
50050 1 0 Effluent Gross	REQUIREMENT	Fig. Moo.	Plea Mon	Mary		1 (40)	* > W	1			When Discharping	FSTIMA
	SAMPLE MEASUREMENT MERMIN	And the gas the state of	Section Section		NEW 2544	Alien - strengt as a	0351.0026.0		and takes to	AGET A	Blanco Correlate Filter	- Mari Jacobi
	REQUIREMENT. SAMPLE MEASUREMENT											1
	* REPUISEMENT			1			10 1	49		1	44.0	6.5
	SAMPLE MEASUREMENT			10. V 10.						12.42	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	ļ
	BEOMBENEND		3-21 B	1	Late of	A ROLL ST				a:	KENTA.	6
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision i	personnel	0 1- 1			TELEPHONE		DATE				
Benjamin P. Youman	properly gather and eval who manage the system information submitted is,	, or those persons dir	actly responsible for gat	hering the infor	mation, the	SMATURE OF PRI		815	406-3700		01/17/2013	.
	aware that there are sign					EXECUTIVE OFFICE AUTHORIZED AC		AREA	NUMBER		MM/DD/YY	γ

2. There was no discharge of processed steam generator chemical cleaning wastewater during the month.

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1/8/2012

For Exelon Byron Station Permit IL0048313 December 2012 Page 1 of 3

MONITORING DATA:

CWBD		Rock River		
	CWBD Flow	Flow		
•	mgd	cfs		
	25.55	2,180		
		2,130		
		2,180		
		2,250		
		2,120		
		2,110		
		2,110		
		2,080		
		2,120		
		2,200		
		2,210		
		2,100		
		2,150		
		2,130		
		2,210		
		2,370		
		2,310		
73.1	16.72	2,300		
74.6	17.83	2,300		
74.6	20.85	2,650		
70.3	21.32	3,130		
70.6	24.02	2,720		
73.0	20.59	2,520		
74.8	18.76	2,420		
	16.27	2,670		
		3,120		
71.8	16.42	3,080		
73.5		2,780		
73.5	23.37	2,580		
68.8	20.56	3,960		
		3,940		
	74.6 70.3 70.6 73.0 74.8 73.9 73.0 71.8 73.5	Temperature deg F CWBD Flow mgd 80.4 25.55 84.9 17.62 90.5 18.12 90.5 18.25 77.1 19.23 75.1 17.99 74.0 19.58 75.7 24.21 70.9 19.38 74.0 15.54 72.8 21.14 78.5 19.45 78.0 21.80 75.6 22.13 82.8 17.93 71.3 13.12 73.1 16.72 74.6 17.83 74.6 17.83 74.6 20.85 70.3 21.32 70.6 24.02 73.0 20.59 74.8 18.76 73.9 16.27 73.0 24.56 71.8 16.42 73.5 22.18 73.5 22.18 73.5 23.37 68.8		

For Exelon Byron Station 1 Permit IL0048313 December 2012 Page 2 of 3

HYDRAZINE MONITORING:

There were no steam generator chemical cleaning solutions (or associated rinses) containing hydrazine discharged to the Cooling System Blowdown during the month of December 2012.

TOTAL QUANTITY DISCHARGED: N/A

TOTAL DURATION OF DISCHARGE: N/A

COMMENTS:

- Sodium Hypochlorite and Bromine compounds were used this month.
- 2. There was no discharge of steam generator chemical cleaning wastewater containing hydrazine in this month.
- 3. Flow existed through this outfall 31 of 31 days.
- 4. Per Special Condition 24 the influent from the Rock River and effluent from Outfall 001-0 was monitored for Total Suspended Solids (TSS) this month. The Rock River TSS value was 12.0 mg/L on 12/03/2012. The CWBD TSS value was 4.2 mg/L on 12/05/2012.
- 5. Rock River flow was <2400 cfs starting on December 1, 2012 therefore daily temperature calculations were required during this time period. The Rock River flow was >2400 cfs from 12/20/2012 through 12/31/2012. (Special Condition 12). Per Special Condition 12, in the event the Rock River flow is <2.400 cfs, daily calculations will be undertaken to demonstrate compliance with the water quality standard. The calculations are based on hourly measurements, averaged over a 24-hour calendar day for Rock River flow, main Rock River temperature, CW Blowdown flow, and CW Blowdown temperature values. Results of the calculations shall be reported in the DMR on a monthly basis. Calculation results are in the table on the following page.
- 6. There was no discharge of the 126 Priority Pollutants from cooling tower maintenance chemicals in December 2012. (Special Condition 15).

For Exelon Byron Station Permit IL0048313 December 2012 Page 3 of 3

Date	Average	Average	Average	Average	Calculated	Water Quality
	Rock	CW M/U	CW	CW	Temperature	Standard
	River	Temperature	Blowdown	Blowdown	at edge of	Temperature
	Flow	(F)	Flow	Temperature	mixing zone	(F)
	(cfs)		(gpm)	(F)	(F)	
12/01/12	2,150	42	13,642	79	42.8	60
12/02/12	2,097	45	13,650	82	46.6	60
12/03/12	2,147	48	13,879	87	49.4	60
12/04/12	2,223	50	13,692	79	50.6	60
12/05/12	2,091	45	13,517	70	46.1	60
12/06/12	2,076	44	13,554	75	45.2	60
12/07/12	2,080	44	13,667	74	45.6	60
12/08/12	2,048	43	13,679	73	44.6	60
12/09/12	2,075	43	13,683	73	44.1	60
12/10/12	2,169	41	13,679	70	42.0	60
12/11/12	2,208	39	13,633	67	40.1	60
12/12/12	2,110	39	13,821	74	39.8	60
12/13/12	2,141	_ 39	13,742	75	40.0	60
12/14/12	2,132	39	13,738	75	40.0	60
12/15/12	2,196	41	13,271	77	41.7	60
12/16/12	2,363	42	12,667	75	43.0	60
12/17/12	2,315	42	12,371	70	42.4	60
12/18/12	2,301	41	12,079	72	41.6	60
12/19/12	2,307	40	13,879	71	41.1	60