BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

MIDWEST GENERATION, LLC)	
)	
Petitioner,)	
)	PCB 25-4
v.)	Permit Appeal (Land, CCR)
)	
ILLINOIS ENVIRONMENTAL)	
PROTECTION AGENCY,)	
)	
Respondent)	

APPEAL OF CCR SURFACE IMPOUNDMENT OPERATING PERMIT AND REQUEST FOR PARTIAL STAY

NOW COMES Petitioner, MIDWEST GENERATION, LLC, ("Midwest Generation" or "Petitioner"), pursuant to Section 40(a) of the Illinois Environmental Protection Act ("Act") (415 ILCS 5/40(a)) and 35 Ill. Adm. Code 105.200 *et seq.*, and requests a hearing before the Board to contest certain permit conditions contained in the final Coal Combustion Residual ("CCR") Surface Impoundment Operating Permit issued by the Illinois Environmental Protection Agency ("Illinois EPA" or "Agency") for Midwest Generation's Powerton Generating Station, served on Petitioner on July 3, 2024 ("Permit"). A copy of the Permit is attached as Exhibit A. Petitioner further requests that the Board stay the contested conditions of the Permit during the pendency of this Petition for Review. In support of this Petition for Review, Petitioner states as follows:

I. BACKGROUND

- 1. Midwest Generation operates Powerton Generating Station, an electric generating station located at 13082 East Manito Road in Pekin, Illinois (Tazewell County).
- 2. Powerton Station has four CCR surface impoundments, which are the subject of the Permit: Ash Surge Basin, Ash Bypass Basin, Metal Cleaning Basin, and Former Ash Basin.

- a. <u>Ash Surge Basin</u>: Historically, the Ash Surge Basin was the primary basin for collected CCR that overflowed from the hydro bins that capture most of the ash from the Station's operations.
- b. Ash Bypass Basin: The Ash Bypass Basin was formerly used to receive ash when the Ash Surge Basin was being emptied. On July 3, 2024, Illinois EPA issued a CCR Surface Impoundment Retrofit Construction Permit to Midwest Generation authorizing the retrofit construction of the Ash Bypass Basin. Concurrently with the present Appeal, Midwest Generation has filed an Appeal and Request for Partial Stay relating to that CCR Surface Impoundment Retrofit Construction Permit (PCB-25-3). On October 18, 2024, MWG certified that the Ash Bypass Basin was retrofitted pursuant to the plans and specifications.
- c. <u>Metal Cleaning Basin:</u> The Metal Cleaning Basin is an Illinois CCR surface impoundment, not subject to the Federal CCR rule, and is not part of the Station's ash sluice system. Instead, it is used as a temporary lay-down area.
- d. Former Ash Basin: The Former Ash Basin is an inactive CCR surface impoundment on the north side of the Station. Midwest Generation has not placed ash in the Former Ash Basin since it has operated the Station, and, to Midwest Generation's knowledge, ash was last sent to the Former Ash Basin in the 1970s.
- 3. In a final decision on July 3, 2024, Illinois EPA issued to Midwest Generation Coal Combustion Residual ("CCR") Surface Impoundment Operating Permit No. 2024-CO-100029 authorizing operation of the Ash Surge Basin (W1798010008-01), the Metal Cleaning Basin (W1798010008-03), the Ash Bypass Basin (W1798010008-04), and the Former Ash Basin (W1798010008-05) ("Permit") (Exhibit A hereto).

- 4. On August 5, 2024, Petitioner and Illinois EPA timely filed a joint notice to extend the 35-day period within which Midwest Generation may appeal this July 3, 2024, determination of the Illinois EPA. On August 8, 2024, the Board issued an order so extending the appeal period until November 5, 2024, as requested by the parties.
- 5. Midwest Generation has raised with Illinois EPA a number of comments and concerns relating to the Permit as issued and conferred several times with Agency permit staff regarding these comments and concerns. While the parties were able to reach tentative concurrence on nearly all of the issues during these discussions, the parties have not yet been able to fully resolve the matters that are now the subject of this Appeal.

II. REQUEST FOR PARTIAL STAY OF THE PERMIT

- 6. Midwest Generation respectfully requests the Board stay the effectiveness of the following conditions pending a final decision of the Board: Special Conditions 6, 11, 14, 15, 16, 17, 19, 20, 21, 22, 25, 26, and 28 and the permit identification information provided in the headers of each page of the Permit.
- 7. The Board has discretionary authority to grant a partial stay of a challenged permit where a petitioner has so requested. *Community Landfill Company and City of Moses v. Illinois EPA*, PCB01-48, 01-49 (Oct. 19, 2000). The factors the Board may consider in determining whether a stay is appropriate are: (1) a certain and clearly ascertainable right needs protection; (2) irreparable injury will occur without the injunction; (3) no adequate remedy at law exists; and (4) there is a probability of success on the merits. *Id.*, *See also Saint-Gobain Containers*, *Inc. v. IEPA*, PCB 04-47 (Nov. 6, 2003); *Bridgestone/Firestone Off-Road Tire Co. v. Illinois EPA*, PCB 02-31 (Nov. 1, 2001). Notably, the Board is not required to consider every one of the four factors in making the stay determination. *Bridgestone* at 3.

8. Midwest Generation will suffer irreparable harm if the Board does not issue a stay because it will be forced to operate in a state of noncompliance with the Permit and the law and will thus be at continual imminent risk of enforcement action. In contrast, neither the public nor the Agency will be harmed if a stay is granted, particularly since the Agency has already informally agreed in principle to all of Midwest Generation's requested changes regarding the conditions. Further, Midwest Generation's appeal of the identified permit conditions would be rendered moot if it had to comply with the contested conditions during the appeal, and Midwest Generation's right to appeal the permit conditions is a certain and ascertainable right that needs protection.

III. ISSUES ON APPEAL

9. Midwest Generation hereby petitions for review the Agency's inclusion in the Permit of the following identified terms and conditions and asks the Board to reverse and remand the Permit to the Agency specifically for the purpose of removing the conditions or revising the Permit as requested herein. This Petition for Review is timely filed in accordance with the Board's August 8, 2024, order extending the appeal period until November 5, 2024.

A. Permit Header

10. The permit number is incorrect in the headers of each page of the permit. 2021-CO-100029 is listed and should be changed to 2024-CO-100029.

B. Special Condition 6

11. The Permit Application Log No. is incorrect and should be changed to <u>2021-100029</u>, as listed in Special Conditions 3 and 8.

C. Special Condition 11

12. Petitioner requests the first sentence be updated to remove the reference to MW-23 and replace it with, "...and two additional downgradient wells, MW-22 and a second newly installed

well in the Silty Clay/Silt Unit." This will allow Midwest Generation to name the well most appropriately based on the final location selected and provides consistency with the language in Special Condition 13. Also, as described in Midwest Generation's comments on the Draft Operating Permit dated May 16, 2024, MW-23 is installed and is located in the Sand and Gravel Unit. *See* Exhibit B.

D. Special Condition 14

13. Petitioner requests that the "MW-23" listed in Special Condition 14(b)(2) be moved to Section 14(b)(3) because, as stated above, it is installed in the Sand and Gravel unit. Special Condition 14(b)(2) should be updated to "...MW-18, MW-22, and a second newly installed well."

E. Special Condition 15

- 14. Petitioner requests the deadline to initiate sampling be extended to "within <u>90</u> days of the effective date" to allow for maintenance of the temporal spacing between sampling events and to be consistent with well installations required by Special Conditions 11 and 14.
- 15. Additionally, Petitioner requests that the following be added to the end of the first sentence, "...at every well <u>listed in Special Conditions 12 and 13</u>." Powerton Station has groundwater monitoring wells that are not listed in Special Conditions 12 and 13.

F. Special Condition 16

16. The last sentence of the leading paragraph should reference Attachment 9-5. Attachment 9-4 is the Professional Engineer Certification; Attachment 9-5 is the CCR Compliance Statistical Approach.

G. Special Condition 17

17. Similar to Special Condition 15, Petitioner requests the deadline to initiate sampling be extended to, "Within 90 days of the effective date...," for consistency with other permit conditions.

18. Additionally, Petitioner requests that the following be added to the end of the first sentence, "...at every well <u>listed in Special Conditions 12 and 13</u>." Powerton Station has groundwater monitoring wells that are not listed in Special Conditions 12 and 13.

H. Special Condition 19

19. Based upon a phone conference Petitioner participated in with the Agency on July 12, 2024, Petitioner understands that the Agency does not intend that all "Structural Components" as that term is defined in 845.120 be sampled, such as the liners, leachate collection and removal systems, final covers, run-on and run-off systems, and inflow design flood control systems. To reflect the Agency's intent as described during that meeting, Petitioner suggests the Special Condition be rewritten as "Within 180 days of the effective date of the operating permit, the permittee must provide a chemical analysis of the material used in the embankments of the CCR surface impoundments, and underneath the CCR surface impoundments if feasible. To capture the lateral and vertical extent, the permittee must drill a total of 10 borings within the berms associated with the area of the CCR surface impoundments at the Station, collecting a sample from each boring every 10 feet of depth until the boring reaches native soil or bedrock. The samples must be compliant with the sampling requirements pursuant to 35 Ill. Adm. Code 845.230(d)(2)(B)."

I. Special Condition 20

20. This condition should be updated to match the Responsiveness Summary issued by the Agency on July 3, 2024 (*see* IEPA Responsiveness Summary, pp. 18-19, attached hereto as Exhibit B). Midwest Generation will provide samples from the Former Ash Basin and the influent and effluent of the Ash Surge Basin within 60 days of the effective date of this permit. As the Ash Bypass Basin was out of service for the retrofit project and the Metal Cleaning Basin is only used intermittently, neither basin contained, is received, or is discharged CCR and wastewater during

and beyond the initial 60 days of the effective date of the permit. Midwest Generation will sample the influent and effluent of those basins when they are placed back into service. It is expected that the Ash Bypass Basin will be in service by December 1, 2024, but it is not expected that the Metal Cleaning Basin will receive metal cleaning wastes before spring 2025. Petitioner requests the Special Condition be rewritten as "Within 60 days of the effective date of this permit, the permittee must provide an analysis of the influent and effluent of, or the water currently in, the Former Ash Basin and Ash Surge Basin. Within 90 days of receiving CCR wastewater, the permittee must provide an analysis of the influent and effluent of the Ash Bypass Basin and the Metal Cleaning Basin. The permittee must provide an analysis of the waste streams compliant with the sampling requirements of 35 Ill. Adm. Code 845.230 (d)(2)(C)."

J. Special Condition 21

- 21. The first and second paragraphs after the table of standards are in conflict. The first paragraph states that if the statistical analysis performed pursuant to Special Condition 19 (which should reference Special Condition 18) results in a higher groundwater protection standard than the current permit limits, Midwest Generation may submit a permit application modification to modify the standards in the table of standards. The second paragraph states that background concentrations will only be evaluated for changes during permit renewal or after completion of construction permits, which have yet to be issued for public notice for three of the four CCR surface impoundments at Powerton Station.
- 22. The second paragraph also violates the express statements in the Illinois CCR rule. Section 845.280(c) states that an owner/operator "may initiate modification to its permit by application to the Agency at any time after the permit is approved and before the permit expires." 35 Ill. Adm.

Code 845.280(c). To resolve the internal conflict and violation of the Illinois CCR rule, the second paragraph should be stricken.

23. Further, the term "the aforementioned GWPS" referenced in the third paragraph is unclear. "GWPS" is not defined in the permit. Accordingly, to provide clarity, Petitioner requests that the third sentence be modified to "In the event that exceedances of the groundwater protection standards <u>listed in Special Condition 21</u> have occurred..."

K. Special Condition 22

- 24. The first and second paragraphs after the table of standards are in conflict. The first paragraph states that if the statistical analysis performed pursuant to Special Condition 19 (which should reference Special Condition 18) results in a higher groundwater protection standard than the current permit limits, permittee may submit a permit application modification to modify the standards in the table of standards. The second paragraph states that background concentrations will only be evaluated for changes during permit renewal or after completion of construction permits, which have yet to be issued for public notice for three of the four CCR surface impoundments at Powerton Station.
- 25. The second paragraph also violates the express statements in the Illinois CCR rule. Section 845.280(c) states that an owner/operator "may initiate modification to its permit by application to the Agency at any time after the permit is approved and before the permit expires." 35 Ill. Adm. Code 845.280(c). To resolve the internal conflict and violation of the Illinois CCR rule, the second paragraph should be stricken.
- 26. Further, the term "the aforementioned GWPS" referenced in the third paragraph is unclear. "GWPS" is not defined in the permit. Accordingly, to provide clarity, Petitioner requests that the

third sentence be modified to "In the event that exceedances of the groundwater protection

standards listed in Special Condition 22 have occurred..."

L. Special Condition 25

27. The word "place" is grammatically incorrect and should be changed to "placed".

M. Special Condition 26

28. The reference to Special Condition 24 is in error and should be changed to Special

Condition 23. As the Agency agreed in its Responsiveness Summary, the reference to the "Fill

Unit" in Special Condition 26(c) is in error and should be deleted (see IEPA Responsiveness

Summary, Exhibit B, p. 21).

N. Special Condition 28

29. The requirement to submit one original and two copies of all documents required by the

permit is unduly burdensome and unreasonable. Indeed, each of the documents is also required to

be maintained on the Petitioner's publicly available website, which is also available to the Agency.

Petitioner requests that Special Condition 28 be modified so that it must submit one copy of all

certifications, logs, reports, and plan sheets.

WHEREFORE, Petitioner request that the Board:

1) Enter an Order staying the effectiveness of the contested conditions of the Permit

as set forth above.

2) Conduct a hearing on the contested terms of the Permit; and

3) Reverse and remand the Permit to the Agency specifically for the purpose of

revising the Permit in accordance with Petitioner's objections.

Respectfully submitted, Midwest Generation, LLC

By: /s/ Kristen Gale

One of Its Attorneys

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EXHIBIT A

HAINDISHING/PROPUNTENIFALS PROTECTION AGENCY



1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276 · (217) 782-3397

JB PRITZKER, GOVERNOR

JOHN J. KIM, DIRECTOR

217/782-0610

July 3, 2024

Midwest Generation, LLC 13082 East Manito Road Pekin, Illinois 61554

Re: Midwest Generation, LLC

Powerton Generating Station

Coal Combustion Residual Surface Impoundment Operating Permit 2024-CO-100029

Bureau ID: W1798010008

Dear Permittee:

Attached is the final Coal Combustion Residual Surface Impoundment Operating Permit for your facility. The Permit as issued covers monitoring and related reporting requirements. Failure to meet any portion of the Permit could result in civil and/or criminal penalties. The Illinois Environmental Protection Agency is ready and willing to assist you in interpreting any of the conditions of the Permit as they relate specifically to your discharge. Since the public notice of your permit, the following changes have been made:

- 1. Special Condition 10 corrected references the Annual Consolidated Report in Special Condition 29.
- 2. Special Condition 12 now states that there are two migration pathways.
- 3. Special Condition 13 now states that there are two migration pathways and updates the monitoring wells.
- 4. Special Condition 19 requires horizontal and vertical extent of structural components in all basins and explains the sampling of each material type used as a structural component and how they are to be compliant.
- 5. Special Conditions 21 and 22 now also note steps MWG must implement pursuant to 35 Ill. Admin. Code 845.650(d) or (e) if there is an exceedance at one or more downgradient monitoring wells.
- 6. Reference to leachate monitoring data has been removed from Special Condition 28.
- 7. Special Condition 30 has been revised to not include CCR.
- 8. Various spelling and grammar mistakes have been corrected.

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The attached Permit is effective as of the date indicated on the first page of the Permit. Until the effective date of any re-issued Permit, the limitations and conditions of the previously issued Permit remain in full effect. You have the right to appeal any condition of the Permit to the Illinois Pollution Control Board within a 35 day period following the issuance date.

Should you have questions concerning the Permit, please contact Mark E. Liska at 217/782-0610.

Sincerely,

Darin E. LeCrone, P.E. Manager, Permit Section

Division of Water Pollution Control

DEL:MEL:24022801.docx

Attachment: Final Permit

cc: Records

Compliance Assurance Section

Peoria Region

Billing USEPA

Coal Combustion Residual Surface Impoundment Permit No. 2024-CO-100029

Illinois Environmental Protection Agency

Division of Water Pollution Control

1021 North Grand Avenue East

Post Office Box 19276

Springfield, Illinois 62794-9276

Coal Combustion Residual Surface Impoundment Operating Permit

Expiration Date: June 30, 2029

Issue Date: July 3, 2024

Name and Address of Permittee:

Name and Address of Facility:

Midwest Generation, LLC 13082 East Manito Rd. Pekin, IL 61554 Midwest Generation, LLC Powerton Generating Station 13082 East Manito Rd. Pekin, IL 61554 (Tazewell County)

CCR Impoundment:

W1798010008-01 Ash Surge Basin W1798010008-03 Metal Cleaning Basin W1798010008-04 Ash Bypass Basin W1798010008-05 Former Ash Basin

In compliance with the provisions of the Illinois Environmental Protection Act, Title 35 of III. Adm. Code, Subtitle C and/or Subtitle D, Chapter 1, and the Clean Water Act (CWA), the above-named permittee is hereby authorized to operate a coal combustion residual (CCR) surface impoundment, at the above location in accordance with the standard conditions and attachments herein.

Coal Combustion Residual Surface Impoundment Permit No. 2024-CO-100029 authorizes the operation of the Ash Surge Basin, the Metal Cleaning Basin, the Ash Bypass Basin, and the Former Ash Basin.

Coal Combustion Residual Surface Impoundment Permit No. 2024-CO-100029 does not authorize the closure, corrective action, or any construction for the Ash Surge Basin, the Former Ash Basin, the Ash Bypass Basin, or the Metal Cleaning Basin.

Coal Combustion Residual Surface Impoundment Permit No. 2024-CO-100029 does not authorize the discharge of any wastewater to waters of the United States. NPDES Permit No. IL0002232 authorizes this facility to discharge wastewater to waters of the United States.

Permittee is not authorized to operate after the above expiration date. In order to receive authorization to operate beyond the expiration date, the permittee shall submit the proper application as required by the Illinois Environmental Protection Agency (IEPA) not later than 180 days prior to the expiration date.

Darin E. LeCrone P.E. Manager, Permit Section

Division of Water Pollution Control

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CCR Impoundment Permit No. 2021-CO-100029

Special Conditions

SPECIAL CONDITION 1: This permit does not relieve the Permittee of the responsibility of complying with the provisions of the State of Illinois Rules and Regulations, 35 Ill. Adm. Code Subtitle B, Air Pollution Control, Chapter 1 and 35 Ill. Adm. Code Subtitle G, Land Pollution Control, Chapter 1. The Permittee may be required to file reports and/or obtain applicable permits through the Illinois EPA's Bureau of Air (BOA) - Division of Air Pollution Control (DAPC) and/or Illinois EPA's Bureau of Land (BOL) - Division of Land Pollution Control (DLPC).

SPECIAL CONDTION 2: This permit does not authorize any construction activities necessary for closure and/or corrective action of the CCR impoundment(s) at the site.

SPECIAL CONDITION 3: The operator shall implement methods for controlling dust, including the Fugitive Dust Control Plan included in Application Log No. 2021-100029, so as to prevent wind dispersal of particulate matter off-site.

SPECIAL CONDITION 4: A permanent sign shall be maintained at each CCR impoundment that contains the information required under 35 IAC, Section 845.130.

SPECIAL CONDITION 5: The written Emergency Action Plan (EAP), shall be maintained by the facility. The EAP and all amendments must be placed in the facility's operating record. Upon activation of the EAP, the facility must notify Illinois EPA in writing within 30 days of activation and place all corresponding documentation in the facility operating record. The permittee may amend the EAP at any time but must amend the EAP when there is a change in conditions that would substantially affect the EAP.

SPECIAL CONDITION 6: The written closure plan has been submitted as part of Permit Application Log No. 2021-100028. The closure plan and all amendments must be placed in the facility's operating record. The permittee may amend the written closure plan at any time but must amend the closure plan when there is a change in a CCR surface impoundment that would substantially affect the written closure plan, and before closure activities have started or unanticipated events necessitate a revision. The closure plan shall be amended at least 60 days before a planned change and within 60 days after an unanticipated event.

SPECIAL CONDITION 7: The permittee shall provide and maintain financial assurance in accordance with Part 845 Subpart I.

SPECIAL CONDITION 8: The Safety and Health Plan and accompanying certification has been submitted as part of Permit Application Log No. 2021-100029. The plan must be updated annually and on an as needed basis. The Safety and Health Plan and all amendments must be placed in the facility operating record.

SPECIAL CONDITION 9: All CCR impoundments and any lateral expansion of a CCR surface impoundment must be inspected by a qualified person on a weekly basis and after each 25-year, 24-hour storm event. All CCR surface impoundment instrumentation must be inspected at least every 30 days. A report for each inspection shall be generated and placed into the facility operating record.

SPECIAL CONDITION 10: Each CCR Surface impoundment must be inspected on an annual basis by a qualified Professional Engineer, in accordance with 35 IAC 845.540. An inspection report must be completed and included with the Annual Consolidated Report, as specified in Special Condition 27.

SPECIAL CONDITION 11: Within 90 days of the effective date of this operating permit, the facility must install and monitor as a part of the groundwater monitoring network at one additional downgradient well, MW-21D, in the Sand and Gravel Unit and two additional down gradient wells, MW-22 and MW-23 in the Silty Clay/Silt Unit. MWG must also install and monitor for groundwater elevations two piezometers in the fill unit, P-1 and P-2, and install and monitor for surface water elevations one staff gage in the Lost Creek. The piezometers must be installed with 10 feet screens, placed with the bottom of the screen installed at the bottom of the fill sand or top of the native soils.

SPECIAL CONDTION 12: The background wells for the two migration pathways are as follows:

- a. Silty Clay/Silt Unit -MW-16.
- b. Sand and Gravel Unit— MW-16.

SPECIAL CONDITION 13: The downgradient wells for the two migration pathways are as follows:

- a) Silty Clay/Silt Unit —MW-06, MW-14, Newly installed well MW-22, Second newly installed well.
- b) Sand and Gravel Unit— MW-01, MW02, MW03, MW04, MW05, MW-07, MW-10, New well installed MW-21D.

SPECIAL CONDITION 14: Surface water and groundwater interaction monitoring and sand and gravel aquifer unit groundwater monitoring includes surface water elevations and groundwater elevations collected and reported in accordance with 35 IAC

CCR Impoundment Permit No. 2021-CO-100029

Special Conditions

845.610(e)(3)(C), 35 IAC 845.640(c)(1) and (3), and 35 IAC 845.650(b)(2). The groundwater and surface water elevation monitoring locations are as follows:

- a) Surface water—the Illinois River USGS staff gage at Kingston Mines and one new staff gage, installed in the Lost Creek.
- b) Groundwater:
 - 1. Fill Sand connected to the Sand and Gravel Unit—two newly installed piezometers, P-1 and P-2.
 - 2. Silty Clay/Silt Unit— MW-06, MW-12, MW-14, MW-15, MW-17, MW-18, MW-22, MW-23.
 - Sand and Gravel Unit—MW-01, MW02, MW03, MW04, MW05, MW-07, MW-09, MW-11, MW-16, MW-19, MW-21D.

MWG must install the silty clay/silt and sand and gravel unit groundwater monitoring wells, fill unit piezometers and staff gages within 90 days of the issuance of this permit.

After completion of the initial surface water/groundwater interaction investigation, lasting 2 calendar years, the necessity of additional wells to monitor storm water infiltration and flooding recharge will be assessed by MWG. A report for review and approval by the Agency will be provided to the Agency by the end of 2.5 years from the beginning of the groundwater and surface water elevation monitoring.

SPECIAL CONDITION 15: Within 30 days of the effective date of this operating permit, the facility must initiate groundwater sampling and analysis in accordance with 35 IAC Section 845.640 at every well. Compliance with Section 845.640(a) requires the collection and submission of monitoring data during annual reporting of laboratory reports, field documents and records of collection and analysis, and documentation of environmental data compliant with SW 846.

SPECIAL CONDITION 16: Within 90 days of the effective date of this permit, the permittee must select a statistical method for evaluating groundwater monitoring data, pursuant to Section 845.640(f)(1), and notify Illinois EPA of the chosen statistical method. The permittee must use the data from the groundwater monitoring program required by this permit to conduct the statistical analysis. Data to be provided or an amended Attachment 9-4 of the Initial Operating Permit Application is as follows:

- a) Outlier analysis must be struck from Attachment 9-4 or revised to adhere to the following for any laboratory analyzed constituent listed in 35 IAC 845.600:
 - Verified data from a NELAP certified laboratory is representative of the aquifer properties analyzed. Outliers cannot be evaluated for exclusion from any dataset without explicit data validation identifying discrepancies from the laboratory and/or field procedures that would qualify a data point to be considered an outlier. Midwest Generation must use the USEPA data validation procedures to determine when or if a data point is to be excluded from a data set. (EPA QA/G-8).
- b) All input data sets for each constituent must be provided in a table in accordance with SW-846 chapter 1, incorporated by reference in 35 IAC 845. Chapter 1 of SW846 states that regulatory decisions must be made with environmental data.
- c) All data sets, used for statistical analysis of background, must be within the last eight consecutive quarterly sampling events in order to validate the statistical methods for recent activity (35 IAC 845.650(b));
- d) Non-parametric statistical analysis must be provided to the Agency for review and approval each time that a nonparametric data set occurs.

SPECIAL CONDITION 17: Within 30 days of the effective date of this permit, the groundwater monitoring program must be in compliance with 35 IAC 845.650 at all wells.

- a. The permittee must analyze each sample for the constituents listed in 845.600(a), calcium and turbidity.
- b. When analyzing groundwater quality, the permittee must measure total recoverable metals pursuant to Section 845,640(i).
- c. The permittee must collect a minimum of eight independent samples from each background and downgradient well within 550 days of operating permit issuance.
- d. After background groundwater monitoring has been completed, the permittee must conduct monitoring pursuant to Section 845.650(b).

CCR Impoundment Permit No. 2021-CO-100029

Special Conditions

SPECIAL CONDITION 18: Within 640 days of the effective date of this permit, the permittee must submit statistical calculations using the method selected in Special Condition 16. As part of this submittal, the applicant must provide a groundwater protection standard for each constituent, the statistical evaluations and calculations including the raw data used, and a description of any assumptions used when calculating the groundwater protection standards.

SPECIAL CONDITION 19: Within 180 days of the effective date of the operating permit, the permittee must provide an analysis of the coal combustion residuals and horizontal and vertical extent of structural components in and around the Former Ash Basin, Ash Surge Basin, Metal Cleaning Basin, and Ash Bypass Basin. Structural components of the Former Ash Basin, Ash Surge Basin, Metal Cleaning Basin and Ash Bypass Basin are defined in 35 III. Admin. Code 845.120. Sampling must include 10% representative sampling of each material type used as a structural component. The samples must be compliant with the sampling requirements of SW 846 and pursuant to 845.230(d)(2)(B).

SPECIAL CONDITION 20: Within 60 days of the effective date of this permit, the permittee must provide an analysis of all waste streams entering or currently at the Former Ash Basin, Ash Surge Basin, Metal Cleaning Basin, and Bypass Basin. Sources that have historically discharged in the Former Ash Basin, Ash Surge Basin, Metal Cleaning Basin, and Bypass Basin include: coal pile runoff, gas side metal cleaning waste, plant drains, yard runoff, roof drains, road runoff. For each of these sources and any other sources not identified, the permittee must provide an analysis of the waste stream compliant with the sampling requirements of SW 846 pursuant to 845.230(d)(2)(C) or a statement that the identified source is no longer discharging and the approximate date of the last discharge.

SPECIAL CONDITION 21: The groundwater standards at the waste boundary for the Silty Clay/Silt unit are:

Pollutant Antimony Arsenic Barium Beryllium Boron Cadmium: Chloride: Chromium: Cobalt: Fluoride: Lead: Lithium: Mercury: Molybdenum: pH: Selenium: Sulfate: Thallium: Total Dissolved Solids: Radium 226 and 228 combined:

Concentration 0.006 mg/L 0.010 mg/L 2.0 mg/L 0.004 mg/L 4.7 mg/L 0.005 mg/L 200 mg/L 0.1 mg/L 0.006 mg/L 4.0 mg/L 0.0075 mg/L 0.04 mg/L 0.002 ma/L 0.1 ma/L 6.5-9.0 units 0.05 ma/L 400 mg/L 0.002 mg/L 1200 mg/L 5 pCi/L

If the statistical analysis performed as part of Special Condition 19 determines a groundwater protection standard that is higher than the currently permitted limits, the applicant may submit a permit application modification to modify the above standards. Chloride and pH will only be amended through statistical analysis during permit renewal.

After review and approval of initial background concentrations by the Agency, background concentrations for constituents listed in 35 IAC 845.600(a) will only be evaluated for changes during permit renewal and after implementation and completion of construction permits.

In the event that exceedances of the aforementioned GWPS have occurred at one or more downgradient monitoring well, MWG must implement 35 III. Admin. Code 845.650(d) or (e). Subsequently, if the Agency does not concur with an Alternative Source Demonstration [35 III. Admin. Code 845.650(e)] or 35 III. Admin. Code 845.650(d) is implemented, 35 III. Admin. Code 845.660, 35 III. Admin. Code 845.670, and 35 III. Admin. Code 845.680 must be implemented. In the event that the exceeding GWPS results are at a property boundary well, MWG must implement 35 III. Admin. Code 845.680(a)(3).

SPECIAL CONDITION 22: The groundwater standards at the waste boundary for the Sand and Gravel unit are:

<u>Pollutant</u> <u>Concentration</u>

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Special Conditions

Antimony 0.006 mg/L 0.010 mg/L Arsenic Barium 2.0 mg/L Beryllium 0.004 mg/L Boron 4.7 mg/L 0.005 mg/L Cadmium: Chloride: 200 mg/L Chromium: 0.1 mg/L Cobalt: 0.006 mg/L Fluoride: 4.0 mg/L 0.0075 mg/L Lead: Lithium: 0.04 mg/L Mercury: 0.002 ma/L Molybdenum: 0.1 mg/L 6.5-9.0 units pH: Selenium: 0.05 mg/L Sulfate: 400 mg/L Thallium: 0.002 mg/L Total Dissolved Solids: 1200 mg/L Radium 226 and 228 combined: 5 pCi/L

If the statistical analysis performed as part of Special Condition 19 determines a groundwater protection standard that is higher than the currently permitted limits, the applicant may submit a permit application modification to modify the above standards. Chloride and pH will only be amended through statistical analysis during permit renewal.

After review and approval of initial background concentrations by the Agency, background concentrations for constituents listed in 35 IAC 845.600(a) will only be evaluated for changes during permit renewal and after implementation and completion of construction permits.

In the event that exceedances of the aforementioned GWPS have occurred at one or more downgradient monitoring well, MWG must implement 35 III. Admin. Code 845.650(d) or (e). Subsequently, if the Agency does not concur with an Alternative Source Demonstration [35 III. Admin. Code 845.650(e)] or 35 III. Admin. Code 845.650(d) is implemented, 35 III. Admin. Code 845.660, 35 III. Admin. Code 845.670, and 35 III. Admin. Code 845.680 must be implemented. In the event that the exceeding GWPS results are at a property boundary well, MWG must implement 35 III. Admin. Code 845.680(a)(3).

SPECIAL CONDITION 23: Annual consolidated reports must contain the following items in accordance with Section 845.550, 845.500(c), 845.540(b)(3), and 845.610(e):

Fugitive Dust Control Report in accordance with Section 845.500(c);

Annual Inspection Report in accordance with Section 845.540(b)(2);

Groundwater Monitoring and Corrective Action Report in accordance with Section 845.610(e)(3) and (e)(4); documentation in the report must satisfy Section 845.640(a), (b), (c),

SPECIAL CONDITION 24: The permittee must maintain a written operating record at the facility. Each record must be retained for at least three years past the date the Agency approved the owner's or operator's request to terminate post-closure care, when closure is with a final cover system, or the completion of groundwater monitoring under Section 845.740(b), when closure is by removal. Records for each individual surface impoundment must be identified by name and identification number.

The permittee must place the following information, as it becomes available, in the facility's operating record:

- Copies of all permit applications and permits;
- b. Documentation recording the public meetings held under Section 845.240;
- Weekly CQA reports under Section 845.290(b);
- d. Hazard potential classification assessments for CCR surface impoundments (see Section 845.440(a)(3)(D));
- e. Structural stability assessments for CCR surface impoundments (see Section 845.450(d)(4));

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Special Conditions

- f. Safety factor assessments for CCR surface impoundments (see Section 845.460(c)(4));
- g. The CCR fugitive dust control plan and any subsequent amendment of the plan (see Section 845.500(b)(6)), except that only the most recent fugitive dust control plan must be maintained in the facility's operating record, irrespective of the time requirement specified in subsection (b);
- h. Inflow design flood control system plans for CCR surface impoundments (see Section 845.510(c)(4)(D));
- i. Emergency Action Plan (see Section 845.520(a)), except that only the most recent EAP must be maintained in the facility's operating record irrespective of the time requirement specified in subsection (b);
- j. Documentation prepared by the owner or operator recording all activations of the EAP (see Section 845.520(f));
- Documentation prepared by the owner or operator recording the annual face-to-face meeting or exercise between representatives of the owner or operator of the CCR surface impoundment and the local emergency responders (see Section 845.520(g));
- Safety and Health Plan (see Section 845.530(a));
- m. Documentation recording the results of each inspection and instrumentation monitoring by a qualified person (see Section 845.540(a)(2));
- n. Annual consolidated report (see Section 845.550), which contains the following:
 - The annual CCR fugitive dust control report (see Section 845.500(c));
 - 2. The annual inspection report (see Section 845.540(b)(3)); and
 - 3. The annual groundwater monitoring and corrective action report (see Section 845.610(e));
- o. All groundwater monitoring data submitted to the Agency and any analysis performed (see Section 845.610(b)(3)(D) and 845.640(a), (b), and (c));
- p. Within 30 days after detecting one or more monitored constituents above the groundwater protection standard, the notifications required by Section 845.650(d) and (e);
- q. The semi-annual report describing the progress in selecting and designing the remedy (see Section 845.670(a));
- Within 30 days after completing implementation of the corrective action plan, the notification required by Section 845.680(e);
- USEPA-approved or denied demonstration as required by Section 845.700(d)(2)(F);
- t. The preliminary written closure plan and any amendment of the plan (see Section 845.720(a)) except that only the most recent closure plan must be maintained in the facility's operating record, irrespective of the time requirement specified in subsection (b);
- The written demonstrations, including the certification required by Section 845.730(b)(3), for a time extension for initiating closure (see Section 845.730(b)(2)); 22) The notification of intent to close a CCR surface impoundment (see Section 845.730(d));
- v. The monthly reports for closure by removal (see Section 845.740(d));
- The closure report and certification (see Section 845.760(e)(3)), or the completion of groundwater monitoring report and certification (see Section 845.740(f)); completion of groundwater monitoring in accordance with Section 845.740 with concurrence of the Agency must be in the record;
- x. The notification of completion of closure of a CCR surface impoundment (see Section 845.760(f));
- The notification recording a notation on the deed (see Section 845.760(h));

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Special Conditions

- z. The preliminary written retrofit plan for a CCR surface impoundment (see Section 845.770(a)(3));
- aa. The notification of intent to initiate retrofit of a CCR surface impoundment (see Section 845.770(d));
- bb. The retrofit completion report and certification (see Section 845.770(g)(3));
- cc. The notification of completion of retrofit activities (see Section 845.770(h));
- dd. The notification of completion of post-closure care period (see Section 845.780(f));
- ee. The completion of CCR removal and decontamination report and certification (see Section 845.740(e)); and
- ff. The most current cost estimates (see Section 845.940(d)).

SPECIAL CONDITION 25: All groundwater monitoring data and resulting analysis must be submitted to Illinois EPA within 60 days after completion of sampling and must be place into the facility operating record.

SPECIAL CONDITION 26: The permittee shall prepare an Annual Groundwater Monitoring and Corrective Action Report each year. The Annual Groundwater Monitoring and Corrective Action Report shall be submitted to Illinois EPA as part of the Annual Consolidated Report required in Special Condition 24, and must be placed into the facility operating record. The annual report shall include at a minimum and to the extent available:

- a. A map, aerial image, or diagram showing the CCR surface impoundment, all background (or upgradient) and downgradient monitoring wells, including the well identification numbers, that are part of the groundwater monitoring program for the CCR surface impoundment, and a visual delineation of any exceedances of the groundwater protection standards;
- b. Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken;
- c. A potentiometric surface map of each monitored groundwater migration pathway unit (Fill Unit, Silty/Clay-Silt Unit and Sand and Gravel Unit) for each groundwater elevation sampling event required by Section 845.650(b)(2);
- d. Monitoring data must include analytical results, documentation of field sampling procedures, and laboratory reports in accordance with 35 IAC 845.640(a).
- e. An assessment of corrective measures, corrective action plans, interim corrective measures and any other corrective action measures conducted during the year must be summarized and/or documented in the submission of the annual groundwater monitoring and corrective action report in accordance with 35 IAC 845.610(e) and 35 IAC 845.550(3).
- f. In addition to all the monitoring data obtained in the year, a summary including the number of groundwater samples that were collected for analysis for each Illinois EPA approved background and downgradient well, and the dates the samples were collected:
- g. In accordance with 35 IAC 845.610(e), a narrative discussion of any statistically significant increases over background levels for the constituents listed in Section 845.600. Any statistically significant increases over background concentrations for one or more constituents listed in 35 IAC 845.600 must be identified and summarized or documented in accordance with 35 IAC 845.610(e)(4). Corrective action assessments, planning, and actions must be documented in accordance with 35 IAC 845.610(e); and
- h. All other information required to be included in the annual report as specified in 35 IAC 845 Subpart F.

SPECIAL CONDTION 27: The Annual Consolidated report each calendar year shall be submitted to the Illinois EPA by January 31 of the following year and placed into the facility operating record. The Annual Consolidated Report shall consist of the following:

- a. The Annual CCR fugitive dust control report.
- b. The Annual Inspection Report, which may include:

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- 1. Annual Hazard potential certification, if applicable.
- 2. Annual structural stability assessment certification, if applicable.
- 3. Annual Safety factor assessment certification, if applicable.
- 4. Inflow design flood control system certification, if applicable.
- The Annual Groundwater Monitoring and Corrective Action Report.

SPECIAL CONDITION 28: All certifications, logs, reports, plan sheets, notices, and groundwater required to be submitted to the Illinois EPA by the permittee shall be mailed to the following address:

Illinois Environmental Protection Agency Compliance Assurance Section Bureau of Water 1021 North Grand Avenue East Post Office Box 19276 Springfield, Illinois 62794-9276

Information submittals transmitted by FedEX or UPS shall be mailed to the following address:

Illinois Environmental Protection Agency Compliance Assurance Section Bureau of Water 1021 North Grand Avenue East Springfield, Illinois 62702

Electronic groundwater monitoring data shall be emailed to Illinois EPA at the following email address: EPA.BOW.GWS.CCR@illinois.gov

Except for electronic groundwater, the operator shall provide the Illinois EPA with the original and two (2) copies of all certifications, logs, reports, and plan sheets required by this permit.

SPECIAL CONDITION 29: Issuance of this permit does not release the Permittees from any liability for prior violations of the Act or Rules and Regulations promulgated thereunder.

SPECIAL CONDITION 30: All sludges not considered Coal Combustion Residual as defined under 35 III. Adm. Code Part 845, if generated, shall be disposed of at a site and in a manner acceptable to the Agency, including obtaining required state construction and/or operating permits from the Agency.

SPECIAL CONDITION 31: All discharges to a Water of the United States shall be governed by NPDES Permit No. IL0002232.

EXHIBIT B

Midwest Generation LLC Powerton

Coal Combustion Residual (CCR) Permit

Responsiveness Summary

Regarding

May 8, 2024, Public Hearing

Illinois Environmental Protection Agency
Office of Community Relations
July 3, 2024



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July 3, 2024 Illinois Environmental Protection Agency

ILLINOIS EPA PERMIT DECISIONS

Construction Permit

On July 3, 2024, the Illinois Environmental Protection Agency (Illinois EPA) Bureau of Water issued a construction permit to Midwest Generation LLC – Powerton for the coal ash residual surface impoundment as described in application 2021-100029. The construction permit includes conditions governing the compliance and monitoring of groundwater from the facility. This construction permit includes the retrofitting of the Ash Bypass Basin with a new composite liner and a new leachate collection and removal system in accordance with 35 Ill. Adm. Code 845.420 . The permits and additional copies of this document can also be obtained from the Illinois EPA website https://epa.illinois.gov/public-notices/ccr-public-notices.html

The following changes were made to the Powerton CCRSI Retrofit Construction Permit:

- 1. Special Condition 7 now notes that financial assurance information was submitted both in their initial application received October 21, 2021 and in a separate submission dated June 21, 2021.
- 2. Special Condition 9 now correctly references the Annual Consolidated Report in Special Condition 17.
- 3. Special Condition 13 now requires that the permittee shall notify the Agency within 7 days of construction being completed.
- 4. Reference to leachate monitoring data has been removed from Special Condition 11.
- Special Condition 15 has been revised to not include CCR.
- 6. Various spelling and grammar mistakes have been corrected.

Operating Permit

On July 3, 2024, the Illinois EPA Buraus of Water issued an operating permit to Midwest Generation LLC – Powerton for the coal combustion residual surface impoundment as described in application 2024-100030. The operating permit establishes the conditions for operation of the Ash Bypass Basin, Ash Surge Basin, Former Ash Basin, and Metal Cleaning

Basin. The permits and additional copies of this document can also be obtained from the Illinois EPA website https://epa.illinois.gov/public-notices/ccr-public-notices.html

The following changes were made to the Powerton CCRSI Operating Permit:

- 1. Special Condition 10 corrected references the Annual Consolidated Report in Special Condition 29.
- 2. Special Condition 12 now states that there are two migration pathways.
- 3. Special Condition 13 now states that there are two migration pathways and updates the monitoring wells.
- 4. Special Condition 19 requires horizontal and vertical extent of structural components in all basins and explains the sampling of each material type used as a structural component and how they are to be compliant.
- 5. Special Conditions 21 and 22 now also note steps MWG must implement pursuant to 35 Ill. Admin. Code 845.650(d) or (e) if there is an exceedance at one or more downgradient monitoring wells.
- 6. Reference to leachate monitoring data has been removed from Special Condition 28.
- 7. Special Condition 30 has been revised to not include CCR.
- 8. Various spelling and grammar mistakes have been corrected.

PUBLIC OUTREACH

On April 4, 2024, the Illinois EPA published a notice of public hearing and public comment period for both the construction and the operating permits. The public comment period began on April 4, 2024, and ended on May 17, 2024.

A hearting notice was posted on April 4, 2024. Notification for the public comment period and public hearing was sent to individuals on the CCR listserv, elected officials, and environmental advocacy groups via email and mail. The hearing notice included instructions for participation in the public hearing and how to submit comments.

PUBLIC HEARING

A public hearing was conducted at 6:00 pm on May 8, 2024, at the Miller Center in Pekin to accept oral comments from the public on the operating and construction permit drafts for Midwest Generation LLC-Powerton. There were fifty- one people in attendance and of these,

eighteen gave public comments. A recording of the public hearing is posted on the Illinois EPA website https://epa.illinois.gov/public-notices/ccr-public-notices.html

BACKGROUND

On July 15, 2022, the Illinois EPA, Bureau of Water received a construction permit application from Midwest Generation LLC- Powerton, requesting a permit for Retrofit construction including all pipes, pumps, and appurtenances of the Ash Bypass Basin at their facility located at 13082 East Manito Road in Pekin. This permit is pursuant to 35 Ill. Adm. Code Part 845. The retrofit construction of the Ash Bypass Basin including the removal of the gravel warning and sand cushion layers over the existing geomembrane liner consists of decontaminating the basin's existing geomembrane liner for re-use as a supplemental liner, decontaminating the basin's appurtenant structures, installing a new basin floor and slopes, installing a composite liner system consisting of a 60-mil HDPE geomembrane over a geosynthetic clay liner, installing a leachate collection and removal system consisting of a drainage geo-composite, leachate collection pipe, and submersible sump pump, installing a sand filter layer over the leachate collection and removal system, and installing a protective warning layer over the sand filter layer. The application for Retrofit Construction Permit application is dated July 15, 2022, and the Amended Written Retrofit Plan Revision 1 dated March 5, 2024.

On October 29, 2021 the Illinois EPA, Bureau of Water received an operating permit application from Midwest Generation LLC- Powerton, requesting authorization for the operation of the Ash Surge Basin, the Former Ash Basin, the Ash Bypass Basin, and or the Metal Cleaning Basin. This permit is pursuant to 35 Ill. Adm. Code Part 845. Midwest Generation — Powerton Generating has an active NPDES Permit IL0002232 that regulates the discharges of wastewater from the property to waters of the United States.

RESPONSES TO COMMENTS, QUESTIONS AND CONCERNS

Comments, Questions and Concerns are in regular text. The Agency's responses are in bold.

CCR Permit

1) There appears to be an inadvertent error because the condition includes "leachate monitoring data." The Illinois CCR rule does not require leachate monitoring data, so this term should be deleted.

While leachate that has contact with CCR must be characterized, its discharge must be covered under an NPDES permit. Therefore, the leachate monitoring data listed in the permits will be deleted.

2) Because the Illinois CCR rule does not require leachate monitoring data, the reference to it in the first sentence should be stricken in Special Condition 28.

While leachate that has contact with CCR must be characterized, its discharge must be covered under an NPDES permit. Therefore, the leachate monitoring data listed in the permits will be deleted.

GROUND WATER

3) have questions about the historic and future monitoring of the ground surface water. Ms. Hunt, you mentioned something about some concerns about the mixing between the groundwater and the source water. Could you address that issue and talk about the number of wells that are being monitored and they are historic compliance with the standards that IEPA has?

While the Agency has implemented enforcement actions under Part 620 in the past for Powerton, the Agency is reviewing and updating procedures to be consistent with groundwater monitoring requirements of Part 845 for evaluating aquifers and migration pathways. As such, the Agency is requiring evaluation of the groundwater consistent with Part 845 at MW-16 as the background well. Additionally, the monitoring wells for evaluating downgradient compliance are limited to down gradient of each of the CCRSIs unless the specific geologic unit does not exist at the downgradient locations. The wells monitored for groundwater elevation are expanded to ensure that characterization of the groundwater elevation is adequate for both geologic units that are migration pathways.

Mixing between the groundwater and surface water has not been fully investigated. Special Condition 14 requires the installation and monitoring of surface water (staff gauge) and groundwater (piezometers) gauges to determine the existence of any data gaps in the current monitoring network.

4) The boron is clearly already in those wells that is caused by coal ash. So how can we use that as your standard for justifying a higher boron standard?

Special Condition 18 requires that the groundwater protection standard for boron and the remaining constituents in 35 Ill. Adm. Code Part 845.600(a) be evaluated from data collected at MW-16 after adequate time has been allowed for the collection and analysis of eight rounds of sampling. At this time, the boron standard will be reevaluated and updated. The Boron groundwater protection standard listed in the operating permit is based on statistical procedures found in Part 845, using wells on the upgradient side of the CCRSI. However, as discussed in Response 3, the Agency is requiring groundwater monitoring consistent with 845.640 at MW-16. The Agency is requiring in Special Condition No. 12 that MW-16 will be the background well for the monitoring network for both geologic units at Powerton. Once eight samples of total metals are collected and analyzed, a new groundwater protection

standard for boron be evaluated in accordance with 35 Ill. Adm. Code Part 845.640(f) and (g).

5) Who is involved and who's going to be responsible?

Midwest Generation (MWG) must comply with the conditions and requirements of both the construction and operating permits in accordance with 35 Ill. Adm. Code Part 845. The Agency will be monitoring and evaluating compliance with the groundwater protection standards.

6) Who is responsible for monitoring these wells for the presence of heavy metals?

Per Special Conditions 21 and 22, MWG is responsible for groundwater monitoring for all constituents listed in 35 Ill. Adm. Code Part 845.600(a). Also see Response 5.

7) If Midwest Generation were to detect elevated levels of boron, or any of the pollutants mentioned in special conditions 21 and 22 at one of their regular tests, will private well owners and any other properties that may drink water from said wells be notified?

In accordance with Special Conditions 21 and 22, MWG must follow the process of investigation and corrective action in accordance with 35 Ill. Adm. Code Part Subpart F. This process, when implemented, in accordance with 35 Ill. Adm. Code Part 845.680(a)(3) will require interim corrective action in the event that exceedances are crossing a property boundary and potentially impacting a private water well. Special Conditions 21 and 22 have been revised to better explain these requirements. The corrective actions will include private well owner notification if necessary.

8) Will that trigger the testing of other nearby private wells for elevated pollutant concentrations?

In accordance with Special Conditions 21 and 22, groundwater monitoring results and/or additional hydrogeologic investigation, in accordance with 35 Ill. Adm. Code Part 845.650(d) that identifies offsite migration, will require further investigation of the groundwater offsite and corrective action under 35 Ill. Adm. Code Part 845 Subpart F. Special Conditions 21 and 22 have been expanded to better explain these requirements.

9) If contamination is detected in nearby private wells, who will be financially responsible for the affected wells' remediation?

The final permit and 35 III. Admin. Code 845 require compliance if the contamination is related to the Powerton CCRSIs. If there is offsite contamination, the permittee must undertake corrective actions pursuant to 35 III. Adm. Code Part 845 Subpart F. MWG would be responsible for any corrective actions either on-site or off-site.

10) How will IEPA hold Midwest Generation accountable to these standards and ensure the remediation takes place?

The Agency monitors compliance with the requirements of the construction and operating permits and may also conduct site inspections. If the permittee fails to implement any aspect of either permit, the Agency can initiate enforcement action, including violations notice under Section 31 of the Act.

11) I live near the Illinois River, and I am here to ask IEPA to not approve this draft permit for retrofit construction at Powerton. I am here to urge you to strengthen the permit. I want you to show that IEPA is very serious about these permits. I want to see that the corporations involved meet established regulations. Both the ash surge basin and the coal ash bypass basin fail to meet the five-foot separation between coal ash and the highest measured groundwater level. The old liner should be removed and especially the ash below that liner also removed and up to date. The boron standard permit is no more than double the existing limit requirements for protecting groundwater. My hope is that you will seriously strengthen this draft permit and make it clear NRG and the Powerton Plant must meet requirements.

In order to show that the structure meets the five-foot separation between the coal ash and the highest measured groundwater level or implements groundwater corrective action, the Agency issued the operating permit with special conditions to address further environmental data requirements necessary to address the extent of the CCRSI. Special Condition 19 requires the permittee to provide an analysis of the coal combustion residuals and horizontal and vertical extent of structural components in and around the Former Ash Basin, Ash Surge Basin, Metal Cleaning Basin, and Ash Bypass Basin. Special Condition 11 requires further investigation of the groundwater levels in the fill. Data from these two conditions will ensure that compliance with the five-foot separation will be achieved or closure and groundwater corrective action will be implemented.

Under Part 845, the permittee is not required to remove the old liner because this is a retrofit of a CCR impoundment and not part of a closure plan as the facility and basin is not closing at this time. The Agency issued the operating permit with specific groundwater protection standards (GWPS) for each constituent monitored in the groundwater, the Silty Clay/Silt Unit and the Sand/Gravel Unit, in Special Conditions 21 and 22, respectively. MWG is required to investigate, plan, and complete groundwater corrective action in accordance with 35 Ill. Adm. Code Part 845 Subpart F (Special Conditions 21 and 22) including a Corrective Action Plan if necessary.

Special Condition 18 requires that the groundwater protection standard for boron and the remaining constituents in 35 Ill. Adm. Code Part 845.600(a) be evaluated from data collected at MW-16 after adequate time has been allowed for the collection and analysis of eight rounds of sampling. After sufficient data has been collected, the boron groundwater protection standard will be updated.

12) I have been going door to door and talking to people in places like South Pekin and

Normandale mainly in regard the safety of our groundwater. Many of these people are very low income unfortunately, that is the community that gets targeted the most by dangerous polluting industries. We absolutely must protect that there are people who rely on well water to drink, farmers, people who just understand the importance of water in our ecosystem.

We are asking if you can please just make sure that the operating permit is amended to make sure that that 5 feet of separation between the coal ash and where the groundwater can get to for the ash surge basin and the ash bypass basin is met. Set stronger protection for boron and to deny the construction permit because the retrofit plan proposes to leave that highly toxic coal ash outside of the liner so it would be exposed to the groundwater. Also make sure these permits are amended to make sure it uses binding language that keeps NRG committed to not be able to change the plans in their permit application and to be bound to the plans that were submitted.

Regarding the five-foot separation question, please see the first paragraph in the answer to Question #11. Data collected in accordance with Special Conditions 11 and 19 will ensure that the 5-foot separation will be reached.

Regarding the Boron question, please see the answer to Question #4 and the third paragraph in the answer to Question #11.

Regarding the question about ash outside the liner, please see the second paragraph in the answer to Question #11. Data collected in accordance with Special Conditions 21 and 22 will be required in the area.

The Agency will enforce this permit as they would any other permit issued.

13) I represent the Illinois Alliance for Retired Americans and I am a Veteran of Vietnam. I am here just to see to it that you guys do the best you can and do not let outside forces force you into doing something that you know is not ethically right. I care about clean water and am concerned about coal ash, heavy metals and pollutants getting into groundwater. Possibly connecting the Illinois River and area aquifers. The IEPA needs to require Powerton to meet state standards and keep a five -foot separation between coal ash and the groundwaters high point. Boron is a problem. I think you should deny the permit. I expect the IEPA to redo this permit. If you do not deny it, I expect you to redo it.

Regarding the five-foot separation question, please see the first paragraph in the answer to Question #11. Data collected in accordance with Special Conditions 11 and 19 will ensure that the 5-foot separation will be reached.

Regarding the Boron question, please see the answer to Question #4 and the third paragraph in the answer to Question #11.

14) The Mahomet Aquifer covers a lot of Tazwell County and southern Tazewell County onto

the river. Our groundwater connects in many ways with aquifers whether it is Mahomet and its unconfined area which means there is no caprock or no definite layers that keep that a certain level. Millions of people depend on the Mahomet this area on east. Sand Cody Aquifer is all part of the very historic what was the Mississippi River. I ask the Illinois EPA in your groundwater assessments to consider the larger area at risk because coal ash and heavy metal toxins are nothing to ignore or discount. To the IEPA, please do not take their request for a much higher boron standard than what you know is your standard to protect water because what you decide as you know is not just for a short amount of time. Lost Creek is clearly remarkably close to the Powerton ponds, and the flood plain stops before Lost Creek. The five-foot separation is essential, 4.5 ft is not good enough. Leaving an old liner and a new one put on top is a band aid. The coal ash that is under that liner should be taken out and put in a higher standard hazardous waste landfill. Please IEPA put the strongest language that does not leave loopholes in your permit. The operating permit should be amended to ensure that five-foot separation and the construction permit for the ash bypass basin, it really should be denied because putting that new liner on top is not adequate.

Regarding the five-foot separation question, please see the first paragraph in the answer to Question #11. Data collected in accordance with Special Conditions 11 and 19 will ensure that the 5-foot separation will be reached.

Regarding the question about leaving the old liner, please see the second paragraph in the answer to Question #11. Data collected in accordance with Special Conditions 21 and 22 will be required in the area of the old liner.

15) You must do everything possible to protect the water resources. I ask you to fix the weaknesses and problems in the IEPA draft permit. The permit makes it clear that ash surge basin and the ash bypass basin failed to meet the required 5 ft separation of coal ash from highest groundwater level. It is not right to leave the old liner in the ash basin with layers of coal ash below it. The liner should be removed, and a new liner system should be put in that meets or exceeds current regulations and ensures the five feet of separation from the highest groundwater. If not, then the ash pond permit for construction should be denied. The same problem of failing at the required five feet of coal ash separation from the highest level of groundwater. It also fails to meet the requirements. The operating permit should be amended. The IEPA should set the right course with the Powerton Plant and use a boron standard that is protective. Stronger language that requires the company to do things correctly must be in the permit.

Regarding the five-foot separation question, please see the first paragraph in the answer to Question #11. Data in accordance with Special Conditions 11 and 19 will ensure that the 5-foot separation will be reached.

Regarding the Boron question, please see the answer to Question #4 and the third paragraph in the answer to Question #11.

Regarding the question about ash outside the liner, please see the second paragraph in the answer to Question #11. Data collected in accordance with Special Conditions 21 and 22 will be required in the area.

16) I am speaking on behalf of Sierra Club, and I wanted to point out a couple of things about the permit. The ash surge basin, in the HDPE liner is located at an elevation of 450.5 ft there is a layer of Poz-o-Pac beneath that which is made of ash. The Poz-o-Pac is part of the liner system so if you look at what the base is logically it is the Poz-o-Pac as part of the liner system. The upper limit of the uppermost aquifer based on groundwater elevations is located at 452 feet or higher. That is the highest elevation measured but those elevations are only taken quarterly. Chances are they do not catch peak flooding the highest point but even though even then it is at 452 ft. So that gives you an overlap of one 1.5 ft to 2.5 ft that is not a five-foot separation. That is an overlap where groundwater is coming up higher than the base of the pond and coming in encountering with the liners that are there. This does not meet the requirement of a five-foot separation. The bypass basin is the same as the ash surge basin beneath the HDPE liner there is Poz-o-Pac. There is a four and a half-foot separation by law again the location restrictions require a five-foot separation. I want to ask IEPA to take a close look at those elevations and make your own determinations about whether the five-foot standard is met.

The Poz-o-Pac was removed when the liner was replaced in 2010.

Regarding the five-foot separation question, please see the first paragraph in the answer to Question #11. Data collected in accordance with Special Conditions 11 and 19 will ensure that the 5-foot separation will be reached.

17) I do urge you to reconsider the plans and deny the retrofit construction permit. Amend the plan for the liners coal ash and containment of heavy metals. I think you have heard a lot of comments this evening about how important that is not just to the people living here now but for generations to come. That they have to safe environment and that we have followed the regulations that have been made. That we take proper action for everyone's safety.

Regarding the five-foot separation question, please see the first paragraph in the answer to Question #11. Data collected in accordance with Special Conditions 11 and 19 will ensure that the 5-foot separation will be reached.

The new liner and leachate collection system is designed to contain the heavy metals in the CCR.

18) Overall, the proposed retrofit in the permit to construct is acceptable. However, it does not make sense that only the ash bypass basin is being retrofitted with a new liner, when none of the other basins have proper liners. Once the ash bypass basin is retrofitted with a new liner, it should be used as the primary surge basin until the ash surge basin can be retrofitted with an appropriate liner. In the draft permit to construct, it states that the ash bypass basin "has not been in use since April 11, 2021." However, the draft permit to operate states that the ash

bypass basin "was taken out of service in 2020 and has not been used for managing CCR or non-CCR waste streams since 2020." This significant discrepancy calls into question the accuracy of other information in the draft permits. It is recommended that the draft permits be rechecked for accuracy. The permit indicates that the former ash basin will be put back into use but does not specify how the Former ash basin will be used or what materials they plan to place in it. It is not acceptable to put the former ash basin back into use, given that it is almost certainly unlined, the standard proposed for boron in the draft permit is 4.7 mg/L at the waste boundary, which is more than double the Illinois Groundwater Standard for boron (2.0 mg/L). The cumulative effect of the listed pollutants even within the concentration limits, collectively, at a chronic exposure, have the potential to cause cancer, cardiovascular disease, respiratory disease, kidney disease, mental health problems, adverse birth outcomes, and impaired child development in humans. An additional point of concern is the testing requirements and monitoring of privately owned wells that could be directly impacted by these elevated standards. The permit should require Powerton to have nearby private wells tested for heavy metals and the other analytes on the groundwater protection standards list in the permit.

The Ash Bypass Basin will be used as the primary basin for all ash collected from coal combustion activities after it is retrofitted. The bypass basin, as configured previously, has not been in use since April 11, 2021.

The Former Ash Basin will not be put back into any use. The fact sheet and permit from both the construction and operating permits do not state that the Former Ash Basin will be put back into any use.

The Retrofit Construction permit is not a closure permit. A separate closure permit is required for closure at each CCRSI.

Regarding the Boron question, please see the answer to Question #4 and the third paragraph in the answer to Question #11.

Should groundwater testing data show that parameters have migrated off-site, MWG will be required to conduct a groundwater investigation, corrective action assessment, and corrective action planning which will include an off-site groundwater investigation and possibly interim corrective action in accordance with 35 III. Admin. Code 845.650(d) and 35 III. Admin. Code 845.680(a)(3). After an adequate corrective action plan has been approved by the Agency, corrective action implementation will be conducted.

19) The Mahomet Aquifer is unconfined in western Tazwell County and current and future potentials for water quality impacts should be reviewed. Towns west, south, and north of Powerton use wells accessing Mahomet aquifer groundwater The Aquifer Sensitivity Map of Tazewell County 2003 gives the area of the Powerton Plant an A-1 rating (Very High Sensitivity). Please take into consideration the potential for the Illinois River to flood and Lost creek which is on the east side of the ash ponds. Consider in 2019 The Illinois Pollution Control Board ruled NRG was responsible for groundwater contamination at Powerton. Please do not leave the

Powerton site as an environmental sacrifice zone for generations to come. This permit needs to be denied as it is now. The boron standard needs to be set so aquatic life is protected. Please do not allow language of the permit to provide loopholes allowing the companies to avoid compliance.

The Agency issued this permit in accordance with Part 845 to ensure that adequate groundwater monitoring and surface water monitoring are implemented at the Powerton Generating Station. The additional groundwater and surface water monitoring required by the draft permit are designed to assure that the groundwater resources, including the Mahomet Aquifer, are protected. If the groundwater monitoring demonstrates a threat to groundwater resources with exceedances of groundwater protection standards, the permittee must perform corrective actions in a manner consistent with the law. The Agency is mindful that the Former Ash Basin lies within the Federal Emergency Management Agency (FEMA) flood zone for the Illinois River. Special Condition 11 requires a staff gauge and two piezometers installed in Lost Creek and fill material, respectively, to monitor for water levels along with the monitoring wells for purposes of determining the interaction between groundwater and surface water in Lost Creek and due to flooding. The Agency is aware of the Illinois Pollution Control Board decision regarding the groundwater pollution at Powerton. The Agency is implementing this permit in a manner consistent with 35 Ill. Admin. Code 845 and believes that implementation will address groundwater pollution originating from the CCRSIs. Special Condition 19 addresses characterization of CCR within the structure of the CCRSI, as the CCR placed below the liner is a "structural component" as defined by 35 III. Adm. Code 845.120. The Agency understands that Tazewell County is a Priority Regional Groundwater Protection area.

20) Illinois EPA must amend Powerton's operating draft permit. The method for setting the groundwater protection standard of 4.7 mg/L was improper. This is more than double the Illinois Part 845 standard of 2.0 mg/L. This is unreasonably high and poses a risk of masking boron exceedances and statistically significant increases in boron. Wells impacted by CCR units were improperly used to set the boron GWPS. The use of MW-09 and MW-19 to establish background for upgradient monitoring violated Illinois Coal Ash rules and Federal Coal Ash rule. This permit must be amended to require proper background monitoring wells for both groundwater units. IEPA must require two different upgradient background monitoring wells, one installed in each ground water unit. Illinois IEPA must deny the retrofit permit and amend the operating permit drafts. The ash surge basin and the bypass basin were improperly certified. They are not in compliance with the location restriction for placement above the uppermost aquifer. Please make changes to special conditions 3,5,6,14,12, 13,15, and 7. (For details see exhibit 20)

Please see response to question #11 and #4. Special Condition 18 requires that groundwater protection standard for boron and the remaining constituents in 35 III. Adm. Code Part 845.600(a) be evaluated from data collected at MW-16 after adequate time has been allowed for the collection and analysis of 8 rounds of sampling. Once eight rounds of groundwater sampling and analysis have been conducted at MW-16, the boron standard will be reevaluated and updated. The Agency is requiring in Special Condition No. 12 that MW-16,

not MW-09 and MW-19, will be the background well for the monitoring network at Powerton. Once eight samples of total metals are collected and analyzed, a new the groundwater protection standard for boron will be evaluated in accordance with 35 III. Adm. Code Part 845.640(f) and (g).

In accordance with 35 III. Adm. Code Part 845.640(d), MW-16 is not installed in or through CCR that is associated with the CCRSIs and is hydraulically upgradient in the Sand and Gravel Unit. The Agency maintains that MW-16 is an adequate background well for the purposes of this permit.

Because MWG used CCR for structural components of the Ash Surge Basin and Ash Bypass Basin and these CCRSIs are sitting on top of the Silty Clay unit, the Agency maintains that corrective action and closure implementation must include prevention of flood waters influx into the fill material in a manner that prevent leaching from the structural components of the CCRSIs to the Illinois River or outside of the waste boundary. While the CCR placed on top of the Silty Clay Unit to the geomembrane liner of the Ash Surge Basin and Ash Bypass Basin is included in the structural components, at this time the lateral extent of the structural components of the Ash Surge Basin and Ash Bypass Basin is not defined. Until calculations exhibiting the lateral extent of the CCRSIs in the fill material has been adequately presented, the Agency is taking the position that all the CCR placed as fill material in, under and laterally around the CCRSIs at Powerton are in fact structural components of one of more of the CCRSIs covered by this permit. Additionally, the Poz-O-Pac is a CCR material and is a structural component of the CCRSIs where present because it was used in the construction and design of the CCRSI in accordance with the definition of structural components in 35 35 Ill. Adm. Code Part 845.120.

The Retrofit construction permit allows for the retrofit construction and not closure. The Ash Bypass Basin (ABB) remains required to close in accordance with Part 845. In addition, during the time in which the ABB is used after the retrofit, groundwater corrective action must be conducted in accordance with 35 Ill. Adm. Code Part 845 Subpart F. The Retrofit construction permit does not negate the groundwater corrective action requirements of Part 845.

21) Special Condition 15 is not relevant and should be stricken. There are no "sludges" associated with the Bypass Basin and none will be generated through the operation of the CCR surface impoundments.

The special condition has been revised such that it is only referring to sludges which are not defined as CCR under 35 Ill. Adm. Code 845. Since this sludge can include such material as filtrate or other debris, it is necessary require that it be disposed of correctly.

22) Special Condition 6 is incorrect. MWG submitted a preliminary written closure plan as part of its Permit Application Log No. 2021-100029, pursuant to Section 845.230(d)(2)(J) of the

Illinois Standards for the Disposal of Coal Combustion Residuals in Surface Impoundments ("Illinois CCR Rule) ("The initial operating permit application for existing or inactive CCR surface impoundments... must contain...[a] Preliminary written closure plan" (emphasis added). 35 Ill. Adm. Code 845.230. To precisely describe the information submitted to Illinois EPA, MWG suggests that Illinois EPA modify Special Condition 6 to state: "The preliminary written closure plan has been submitted ..."

The Agency agrees and changes have been made to state preliminary written closure plan.

23) MWG suggests a correction to the description of MW-23. MWG drilled the wells described in Special Condition 11 after Illinois EPA issued the draft operating permit and found that at well location MW-23 the Silty Clay/Silt Unit was not present and therefore, the well was completed within the Sand and Gravel Unit. The condition should be modified to describe MW-23 correctly. The spelling error should be corrected to "...elevations of one staff gauge in the Lost Creek."

The Agency will use the term "gauge" although both spellings are correct. Also, the list of wells and Special Condition 11 have been updated.

24) There appears to be a typographical error. Special Condition 12 identifies two migration pathways: the Silty Clay/Silt Unit and the Sand and Gravel Unit. However, Special Condition 12 states that the "background wells for the 'three migration pathways' are..." MWG suggests correction of the t typographical error to state "two" migration pathways.

MW-16 should not be identified as the background well for the Silty Clay/Silt Unit and Sand and Gravel unit because it was not included in the groundwater monitoring system established for the CCR surface impoundments in Sections 9 of both Operating Permit Applications. Instead, as discussed with the Illinois EPA, MWG agreed to include MW-16 in the groundwater monitoring network in 2024. Accordingly, per Special Conditions 17 and 18, MWG is collecting the background data and conducting the statistical calculations in MW-16 and other agreed additional wells pursuant to Subpart F of the Illinois CCR Rule. Because there is insufficient background data to date for MW-16, it is improper to identify MW-16 as the background well.

The Agency agrees to the change of "three" to "two". MW-16 is the background well for the groundwater monitoring because it is not located in CCR materials that may or may not be associated with the structural components of the CCRSIs at Powerton. Pursuant to Special Condition 15 of the operating permit, MWG must begin monitoring for total metals and then perform the statistical evaluations required in 35 Ill. Adm. Code 845.640(f) and (g).

25) Special Condition 13 should state "The downgradient wells for the two migration pathways..." After Illinois EPA issued the draft operating permit, MWG drilled MW-23 and found that it is located in the Sand and Gravel Unit (see response to Special Condition 11). To reflect its proper location, MW-23 should be listed as a downgradient well for the Sand and Gravel Unit.

The Agency agrees to the change from "three" to "two". The Agency does not agree that MW-23 was to be installed in the Sand and Gravel unit. The Permit requires two additional wells in the Silty Clay Unit. MWG is required to better characterize and monitor the Silty Clay Unit. MW-18 appears to be cross installed between the fill and silty clay unit. While monitoring two units with one screen is not acceptable, MWG can install a well next to MW-18 that monitors only the Silty Clay Unit. The Agency did not direct MWG to install an additional well in the Sand and Gravel unit at the MW-23 location. Because of the complex nature of the Bypass Basin, Ash Surge Basin and Former Ash Basin structural components, MW-23 cannot be recognized as a downgradient well for monitoring under Part 845.

26) In Special Condition 14, there appears to be a typographical error in the second paragraph on page 3. As agreed with Illinois EPA, MWG will install one staff gauge in Lost Creek (see Special Condition 11). MWG suggests modifying this condition to "...and a staff gauge within..."

The Agency will use the term "gauge" although both spellings are correct.

27) Special Condition 15 is incorrect. MWG has been sampling the wells identified in the groundwater monitoring network in its Operating Permit Application since the Illinois CCR Rule passed in 2021. Accordingly, the statement in that MWG must "initiate groundwater sampling and analysis" within 30 days of the effective date of the operating permit is inaccurate and should be deleted.

There are other groundwater wells at the Powerton Station installed and sampled under different programs and are not a part of the groundwater monitoring network for the CCR surface impoundments specified in this Permit. To avoid confusion, Special Condition 15 should state: "MWG must conduct the groundwater sampling and analysis in accordance with 35 III. Adm. Code Section 845.640 at each well identified in Special Conditions 12 and 13."

The Agency agrees and has clarified to state wells listed in Special Conditions 12 and 13.

28) Special Condition 16 is incorrect. Pursuant to Section 845.220(d)(2)(I)(iii), MWG selected a statistical method for evaluating the groundwater data pursuant to Section 845.640(f)(1) in Section 9 of the Operating Permit Application in Attachment 9-5. Thus, MWG has notified the Agency that the chosen statistical method is the prediction interval procedure identified in Section 845.640(f)(1)(C). See MWG Operating Permit Application, Attachment 9-5, p. 2. Illinois EPA should correct Special Condition 16 to identify the procedure used by MWG. The Attachment identified in Special Condition 16 is incorrect. Attachment 9-4 referenced by the Agency is the PE Stamp dated Oct. 30, 2021. Attachment 9-5 is the correct attachment.

As written, MWG's statistical analysis in Attachment 9-5 adheres and is consistent to the statement included in paragraph (a)(1) of Special Condition 16. Because no outliers were removed from any background dataset as part of statistical prediction limit calculations and is consistent with the noted statement in the permit, the outlier analysis need not be struck or

revised. MWG confirmed that its input data sets are in accordance with SW-846.

The Agency's limitation of the data sets for statistical analysis of background to the last eight consecutive quarterly sampling events in paragraph (c) is incorrect and should be modified. Section 845.650(b)(1)(A) states that a "minimum of eight independent samples" from each well must be collected, but there is no maximum limit and nor is there a limit to the most recent eight samples. It is universally recognized that the larger the background dataset, the more representative and statistically robust it is. Unless some statistical reason (such as an increasing trend) can be provided, it makes no sense to limit background dataset calculations to only the most recent eight quarters when there currently is over eight years of available quarterly CCR monitoring data available. There is no scientific basis to limit data sets for statistical evaluations. Illinois EPA could be attempting to ensure that the statistical analysis includes the most recent data. Assuming that is true, the sentence should be modified to state: "All data sets used for statistical analysis of background, must include the last eight consecutive quarterly sampling events in order". It is noted, however, that once a GWPS is established based on statistical background, this background should not be recalculated after each sampling event. Revisiting background calculations should only be considered after at least three to five years of subsequent sampling, which would be in accordance with guidelines provided in USEPA's Unified Guidance.

The Agency's statement in paragraph (d) that non-parametric statistical analysis must be provided to the Agency for review and approval each time a non-parametric data set occurs is not required by the rule. Section 845.640(g)(1) is the only applicable section related to non-parametric data sets and does not require submission of the data. A requirement of submission and approval of a statistical analysis for every non-parametric data set would be unduly burdensome, because it is common to have data sets that are not normal distributions. This requirement should be stricken.

The Agency agrees with the item regarding the reference to Attachment 9-5. The Agency does not agree with the other portions of this comment, and therefore has not revised Special Condition 16 because MW-16 is the background well that will be used for establishing background values for the CCRSIs for the Operating Permit. The Agency has determined that the other proposed wells are too close to the CCRSIs to be definitively determined to be outside of the structural components of the CCRSIs.

29) MWG conducts each of the requirements in Condition 17 in compliance in 35 III. Adm. Code 845.650. Also, as stated in the Comment on Special Condition 15, there are other groundwater wells at the Powerton Station installed and sampled under different programs and are not a part of the groundwater monitoring network for the CCR surface impoundments specified in the Permit. To avoid confusion, Special Condition 17 should state: "The groundwater monitoring program must be in compliance with 35 III. Adm. Code 845.650 at each well identified Special Conditions 12 and 13."

The Agency agrees and has revised the language to include wells included in Special Condition

12 and 13, and wells added for monitoring of corrective action implementation as a part of 35 Ill. Adm. Code 845.680 and additional groundwater plume delineation under 35 Ill. Adm. Code 845.650(d).

30) MWG provided an analysis of the CCR in the Ash Surge Basin and Former Ash Basin in the Operating Permit Application for the Ash Surge Basin, Ash Bypass Basin, and Former Ash Basin. The results of the analysis are in Tables 2-1 and 2-2 of the application, and the laboratory data package is in Attachment 2. As MWG stated in the application, the Bypass Basin did not contain CCR at the time of permit application completion and that any CCR that would be stored within that unit would be the same as that within the Ash Surge Basin. Similarly, MWG provided an analysis of the CCR in the Metal Cleaning Basin in Table 2 and Attachment 2 of the Metal Cleaning Basin Operating Permit Application. The request for a second analysis is unduly burdensome and unnecessary because the operations at the Powerton Station have not changed. The Illinois EPA should modify Special Condition 19 to state that analysis of the CCR in the Former Ash Basin, Ash Surge Basin, and Metal Cleaning Basin were submitted as part of the Operating Permit Applications, and that the Bypass Basin does not contain CCR.

MWG has not provided characterization of all the CCR used in the CCRSIs, especially CCR used as structural components of the CCRSIs. Structural components are defined in 35 Ill. Adm. Code 845.150 definitions section. The Agency is requiring that these structural components be sampled and analyzed to determine the contribution to the groundwater plume. Without the structural components characterized as stated previously, the Agency is unable to evaluate Closure Construction Applications and Corrective Action Construction Applications directly related to 35 Ill. Adm. Code 845.220(d)(3) and 35 Ill. Adm. Code 845.220(c)(2), respectively.

31) MWG cannot provide an analysis of all waste streams entering the Former Ash Basin or the Ash Bypass Basin because neither basin accepts any waste stream. Sampling of the waste streams that enter the surface impoundments prior to entering the units is redundant and unnecessary. The CCR within the waste streams settles and is contained within the unit. The constituents in the CCR are located in Tables 2-1 and 2-2 of the Operating Permit Application for the Ash Surge Basin, Bypass Basin, and Former Ash Basin, and Table 2 of the Operating Permit Application for the Metal Cleaning Basin. Any constituents within the wastewater that enters the CCR surface impoundment is identified by the current NPDES sampling that occurs. All the water that enters and leaves the CCR surface impoundments is discharged through a NPDES permitted outfall and sampled on a regular basis.

Alternatively, MWG seeks clarity. If the Agency is demanding that MWG sample each individual waste stream (such as each plant drain), that is unduly burdensome and not required by Section 845.230(d)(2)(C). However, MWG could sample the water entering the Ash Surge Basin and Metal Cleaning Basin if that is the Agency's demand.

"Waste streams" to be characterized for the purpose of the initial operating permit includes

waste streams "contained" in the CCRSI in accordance with 35 III. Adm. Code 845.230(d)(2)(C). The water entering and leaving the Ash Surge Basin and the Metal Cleaning Basin must be characterized.

32) Special Condition 21 should be modified for clarity. The condition states: "The groundwater standards at the waste boundary for the Silty Clay/Silt Unit...," incorrectly implying that the Silty Clay/Silt Unit has a waste boundary. The "at the waste boundary" should be stricken and the sentence should state: "The groundwater standards for the Silty Clay/Silt unit..."MWG agrees with the Agency's acceptance of the proposed boron standard for the CCR surface impoundments. The purpose of the groundwater monitoring program is to evaluate the groundwater "at the waste boundary" of a CCR surface impoundment to determine whether the CCR surface impoundment is releasing CCR constituents. Because the Illinois CCR Rule recognizes that there may be constituents at the historically operated facilities that are unrelated to the CCR surface impoundments, the rule allows for alternative standards proposed pursuant to Section 845.600(a)(2). At the Powerton Station, the boron standard was established because of an upgradient source unrelated to the CCR surface impoundments. The first paragraph after the table of standards has a typographical error. It should state "...as part of Special Condition 18..."

The first and second paragraphs after the table of standards are in conflict. The first paragraph states that if the statistical analysis performed pursuant to Special Condition 18 results in a higher groundwater protection standard than the current permit limits, MWG may submit a permit application modification to modify the standards in the table of standards. The second paragraph states that background concentrations will only be evaluated for changes during permit renewal or after completion of construction permits. Also, the second paragraph violates the express statements in the Illinois CCR rule. Section 845.280(c) states that an owner/operator "may initiate modification to its permit by application to the Agency at any time after the permit is approved and before the permit expires. 35 Ill. Adm. Code 845.280(c). To resolve the internal conflict and violation of the Illinois CCR rule, the second paragraph should be stricken.

The groundwater standards for the Silty Clay Unit do include "at the waste boundary" because there are some portions of the Silty Clay Unit that are not at the waste boundary. Due to the discontinuous nature of the Silty Clay Unit as it extends towards the Illinois River, it is not continuous along the top of the Sand and Gravel Unit thereby allowing for mixing between the Fill Sand with the Sand and Gravel Unit.

The groundwater protection standards, after collection of 8 rounds of samples from MW-16, must be adjusted accordingly. After the collection of the first 8 rounds of groundwater samples from MW-16, additional groundwater samples and background calculations will only be considered during the permit renewal.

The typographical error has been corrected.

33) Special Condition 22 should be modified for clarity. The condition states: "The groundwater standards at the waste boundary for the Sand and Gravel unit...," incorrectly implying that the Sand & Gravel Unit has a waste boundary. The "at the waste boundary" should be stricken and the sentence should state: "The groundwater standards for the Sand and Gravel unit..."

The first paragraph after the table of standards has a typographical error. It should state "...as part of Special Condition 18..."

The first and second paragraphs after the table of standards are in conflict. The first paragraph states that if the statistical analysis performed pursuant to Special Condition 18 results in a higher groundwater protection standard than the current permit limits, MWG may submit a permit application modification to modify the standards in the table of standards. The second paragraph states that background concentrations will only be evaluated for changes during permit renewal or after completion of construction permits. Also, the second paragraph violates the express statements in the Illinois CCR rule. Section 845.280(c) states that an owner/operator "may initiate modification to its permit by application to the Agency at any time after the permit is approved and before the permit expires. 35 Ill. Adm. Code 845.280(c). To resolve the internal conflict and violation of the Illinois CCR rule, the second paragraph should be stricken.

Compliance with Part 845 is required at the waste boundary. The Agency has not revised the text of the Special Condition. The groundwater protection standards, after collection of 8 rounds of samples from MW-16, must be adjusted accordingly. After the collection of the first 8 rounds of groundwater samples from MW-16, additional groundwater samples and background calculations will only be considered during the permit renewal.

34) Special Condition 24(g) this paragraph is regarding a "remedy." Because there is no remedy in the operating permit, the paragraph should be deleted.

The Agency has not removed this requirement, as a remedy, in accordance with 35 Ill. Admin. Code 845 Subpart F and Special Conditions 21 and 22, will be required to be reported on prior to the approval of a corrective action construction.

35) Special Condition 26(c) mistakenly includes a requirement for a potentiometric map for the "Fill Unit", which is a misnomer and does not exist. Pursuant to Special Condition 14, MWG is evaluating the surface water and groundwater interactions which will include consideration of water levels recorded from the two piezometers that have been installed. The piezometric maps for the Silty Clay/Silt Units and the Sand and Gravel Unit will sufficiently define the horizontal flow system. Furthermore, a flow map cannot be developed based on only two data points. The requirement for a flow map within the fill should be stricken. Also, "Silty/Clay-Silt Unit" is spelled differently than in other Special Conditions and suggest modifying it for consistency to "Silty Clay/Silt Unit.

Special Condition 26(d) requires that MWG include the documentation of field sampling

procedures in the Annual Report. To date and per the Illinois EPA's request, MWG provides the documentation of field sampling procedures in the groundwater data reports submitted to the Agency pursuant to Section 845.610(b)(3)(D) (i.e., the "60-day reports"). It is unduly burdensome and unnecessary to also require hard copy submittal of field data sheets and analytical laboratory reports in both the 60-day reports and the Annual Report. Double submission of this documentation would also unnecessarily increase the size of the reports and double the volume of the permit record (i.e. – number of pages). MWG has understood from the Illinois EPA that the documentation of the field sampling sheets, and analytical laboratory reports should continue to be in the 60-day report. Accordingly, the requirement to include this documentation in the Annual Report should be stricken.

In Responses 24 and 25 the Agency acknowledges that there are two geologic units, the "sand and gravel unit" and the "silty clay/silt unit". Therefore, the Agency agrees a potentiometric surface map of the "fill unit" cannot be required by this permit.

Once lab reports, field documentation and other reporting requirements have been submitted to the Agency, further reporting that references that documentation must have a reference to the report that it was included in.

36) Special Condition 30 is not relevant and should be stricken. There are no "sludges" associated with the CCR surface impoundments and none will be generated through the operation of the CCR surface impoundments.

The special condition has been revised such that it is only referring to sludges which are not defined as CCR under 35 Ill. Adm. Code 845. Since this sludge can include such material as filtrate or other debris, it is necessary require that it be disposed of correctly.

ACRONYMS AND INITIALS

ABB Ash Bypass Basin

CCR Coal Combustion Residuals

CCRSI Coal Combustion Residual Surface Impoundment

FEMA Federal Emergency Management Agency

GWPS Groundwater Protection Standard Illinois EPA Environmental Protection Agency

Ill. Adm. Code Illinois Administrative Code

MWG Midwest Generation

NPDES National Pollutant Discharge Elimination System

DISTRIBUTION OF RESPONSIVENESS SUMMARY

An announcement that the CCR surface impoundment permit decision and accompanying responsiveness summary is available on the Illinois EPA website, was mailed or e-mailed to all who registered at the hearing and to all who sent in written comments. Printed copies of this responsiveness summary are available from Sabrina Bailey, 312-832-2162, e-mail: sabrina.bailey@illinois.gov.

WHO CAN ANSWER YOUR QUESTIONS ILLINOIS EPA CCR PERMIT:

CCR Permit	Mark Liska	217-782-1599
Legal Questions	Charles Matoesian	217-524-9453
Legal Questions	Rebecca Strauss	217-557-1451
Groundwater Unit	.Lauren Hunt	217-524-9048
Public Hearing of May 8, 2024	Jeff Guv	217-785-8724

The public hearing notice, fact sheets, the hearing recording, the CCR permits and the responsiveness summary are available on the Illinois EPA website https://epa.illinois.gov/public-notices/ccr-public-notices.html