

**BEFORE THE ILLINOIS POLLUTION CONTROL BOARD  
OF THE STATE OF ILLINOIS**

MIDWEST GENERATION, LLC )  
Dry Sorbent Injection Systems and Related )  
Improvements to Electrostatic Precipitators )  
for Waukegan Generating Station, Unit Nos. 7 & 8 )  
 )  
 ) PCB 21-  
 ) (Tax Certification - Air)  
PROPERTY IDENTIFICATION NUMBER )  
0815200006 )

**NOTICE**

TO: [Electronic filing]  
Don Brown, Clerk  
Illinois Pollution Control Board  
State of Illinois Center  
100 W. Randolph Street, Suite 11-500  
Chicago, Illinois 60601

[Service by mail]  
Katheryn Tronsberg Macciocca  
c/o Duff & Phelps, LLC  
2000 Market Street, Suite 2700  
Philadelphia, PA 19103

[Service by mail]  
Steve Santarelli  
Illinois Department of Revenue  
101 West Jefferson  
P.O. Box 19033  
Springfield, Illinois 62794

PLEASE TAKE NOTICE that I have today electronically filed with the Office of the Pollution Control Board the **APPEARANCE** and **RECOMMENDATION** of the Illinois Environmental Protection Agency, a paper copy of which is herewith served upon the applicant and a representative of the Illinois Department of Revenue.

Respectfully submitted by,

/s/ Robb H. Layman  
Robb H. Layman  
Assistant Counsel

Date: August 20, 2020

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
1021 North Grand Avenue East  
P.O. Box 19276  
Springfield, IL 62794-9276  
Telephone: (217) 524-9137

**BEFORE THE ILLINOIS POLLUTION CONTROL BOARD  
OF THE STATE OF ILLINOIS**

MIDWEST GENERATION, LLC )  
Dry Sorbent Injection Systems and Related )  
Improvements to Electrostatic Precipitators )  
For Waukegan Generating Station, Unit Nos. 7 & 8 )  
 )  
 ) PCB 21-  
 ) (Tax Certification - Air)  
PROPERTY IDENTIFICATION NUMBER )  
0815200006 )

**APPEARANCE**

I hereby file my Appearance in this proceeding on behalf of the Illinois Environmental  
Protection Agency.

Respectfully submitted by,

/s/ Robb H. Layman  
Robb H. Layman  
Assistant Counsel

Date: August 20, 2020

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
1021 North Grand Avenue East  
P.O. Box 19276  
Springfield, Illinois 62794-9276  
Telephone: (217) 524-9137

**BEFORE THE ILLINOIS POLLUTION CONTROL BOARD  
OF THE STATE OF ILLINOIS**

MIDWEST GENERATION, LLC	)	
Dry Sorbent Injection Systems and Related	)	
Improvements to Electrostatic Precipitators	)	
for Waukegan Generating Station, Unit Nos. 7 & 8	)	
	)	PCB 21-
	)	(Tax Certification - Air)
	)	
PROPERTY IDENTIFICATION NUMBER	)	
0815200006	)	

**RECOMMENDATION**

NOW COMES the ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (“Illinois EPA”), through its attorneys, and pursuant to 35 Ill. Adm. Code 125.204 of the ILLINOIS POLLUTION CONTROL BOARD’S (“Board”) procedural regulations, files the Illinois EPA’s Recommendation in the above-referenced request for tax certification of pollution control facilities. The Illinois EPA recommends **issuance** of a tax certification covering the subject matter of the request. In support thereof, the Illinois EPA states as follows:

1. On or about July 30, 2020, the Illinois EPA received an application and supporting information from MIDWEST GENERATION, LLC, (“Midwest Gen”) concerning the proposed tax certification of certain air emission sources and/or equipment located at its Waukegan Generating Station in Lake County, Illinois. A copy of the application is attached hereto. **[Exhibit A]**.

2. The applicant’s contact information is as follows:

Kathryn Tronsberg Macciocca  
c/o Duff and Phelps, LLC  
2000 Market Street, Suite 2700  
Philadelphia, PA 19103

3. The facility address is as follows:

Midwest Generation, LLC

Waukegan Generating Station  
401 E. Greenwood Avenue  
Waukegan, IL 60087

4. The subject matter of this request consists of a project installing Dry Sorbent Injection (DSI) Systems to two coal-fired boilers, Unit Nos. 7 and 8, operating at the Waukegan Generating Station. The DSI Systems inject a dry sorbent (i.e., commercially known as Trona, which consists, in its mineral form, of sodium carbonate and sodium bicarbonate) into the flue gases of the boilers immediately prior to the Electrostatic Precipitators (“ESPs”) resulting in an endothermic decomposition process (i.e., calcination). *See, Exhibit A*, page 2 of 3. This chemical process results in the control and/or reduction of sulfur dioxide (SO<sub>2</sub>) emissions from the flue gases, thus facilitating the facility’s compliance with the Pollution Control Board’s Combined Pollutant Standards found at 35 Ill. Adm. Code Part 225. *Id.*, page 3 of 3.

5. In addition, the project included modifications to the ESPs to allow for the added loading of particulate matter (PM) to the control train from the sorbent. These improvements correlated in increased control efficiencies of the ESPs in controlling PM emissions and consisted, among other things, of high frequency Transformer Rectifiers (TRs), new collection plates, new discharge electrodes, new perforated plates and rappers.

6. Both components of the project constructed in 2016 represent conventional pollution control technologies that, as described in the application, act to control and/or reduce SO<sub>2</sub> and PM emissions that would otherwise be emitted from the coal-fired boilers.

7. Section 11-10 of the Property Tax Code, 35 ILCS 200/11-10 (2002), defines “pollution control facilities” as:

“any system, method, construction, device or appliance appurtenant thereto, or any portion of any building or equipment, that is designed, constructed, installed or operated for the primary purpose of: (a) eliminating, preventing, or reducing air or water pollution... or (b) treating, pretreating, modifying or disposing of any potential solid, liquid, gaseous pollutant which if released without treatment,

pretreatment, modification or disposal might be harmful, detrimental or offensive to human, plant or animal life, or to property.”

8. Pollution control facilities are entitled to preferential tax treatment, as provided by 35 ILCS 200/11-5 (2002).

9. Based on information in the application and the primary purpose of the DSI Systems and Related Improvements to the ESPs on Unit Nos. 7 and 8 to prevent or reduce air pollution, it is the Illinois EPA’s engineering judgment that the control device and related appurtenances may be considered as “pollution control facilities” in accordance with the statutory definition and consistent with the Board’s regulations at 35 Ill. Adm. Code 125.200.

**[Exhibit B].**

10. Because the information in the application for the DSI Systems and Related Improvements to the ESPs on Units 7 and 8 satisfies the aforementioned statutory and regulatory criteria, the Illinois EPA recommends that the Board **issue** the applicant’s requested tax certification.

Respectfully submitted by,

/s/ Robb H. Layman

Robb H. Layman  
Assistant Counsel

DATED: August 20, 2020

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
1021 North Grand Avenue East  
P.O. Box 19276  
Springfield, Illinois 62794-9276  
Telephone: (217) 524-9137

**CERTIFICATE OF SERVICE**

I hereby certify that on the 20<sup>th</sup> day of August 2020, I electronically filed the following instruments entitled **NOTICE, APPEARANCE** and **RECOMMENDATION** with:

Don Brown, Clerk  
Illinois Pollution Control Board  
100 West Randolph Street  
Suite 11-500  
Chicago, Illinois 60601

and, further, that I did send a true and correct paper copy of the same foregoing instruments, by First Class Mail with postage thereon fully paid and deposited into the possession of the United States Postal Service, to:

Steve Santarelli  
Illinois Department of Revenue  
101 West Jefferson  
P.O. Box 19033  
Springfield, Illinois 62794

Katheryn Tronsberg Macciocca  
c/o Duff & Phelps, LLC  
2000 Market Street, Suite 2700  
Philadelphia, PA 19103

/s/ Robb H. Layman  
Robb H. Layman  
Assistant Counsel

## DUFF & PHELPS

Illinois Environmental Protection Agency  
ATTN: Ray E. Pilapil, Permit Section  
Division of Air Pollution Control  
1021 North Grand Ave. East, P.O. Box 19276  
Springfield, IL 62794-9276

July 30, 2020

Re: Application for Property Tax Treatment for Air Pollution Control Property located at Waukegan Generating Station in Lake County, Illinois

Enclosed please find one application (the "Application") for property tax certification for a Air Pollution Control Facility located at the Midwest Generation, LLC's Waukegan Generating Station (the "Facility"), located in Waukegan, Lake County, Illinois.

The Application has been prepared pursuant to Illinois Compiled Statutes § 200/11-5, and includes any necessary information and supporting documentation. Submission of this Application is required as a process step in the Illinois Environmental Protection Agency and the Illinois Department of Revenue pollution control certification process for special value treatment of certain assets used in water pollution control capacities at the Facility.

The Application can be summarized as follows:

### Description

Units #7 & #8 Dry Sorbent Injection System with Modifications to the Units #7 & #8 Electrostatic Precipitators

Please send one copy of the completed property tax special values treatment certificate to the following address:

Kathryn Tronsberg Macciocca  
Duff & Phelps, LLC  
2000 Market Street, Ste 2700  
Philadelphia, PA 19103

Midwest Generation, LLC Application for Pollution Control Facility Certification  
Illinois Environmental Protection Agency  
July 30, 2020

If you have any questions regarding the Application or the information supplied within the Application, please contact me at (215) 430-6059 or by e-mail at [kathryn.tronsberg@duffandphelps.com](mailto:kathryn.tronsberg@duffandphelps.com).

Very truly yours,



Kathryn Tronsberg Macciocca  
Director  
Property Tax

Enclosures

cc. [Robb.Layman@Illinois.gov](mailto:Robb.Layman@Illinois.gov) - Illinois is Environmental Protection Agency



# Illinois Environmental Protection Agency

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

## Application for Certification (Property Tax Treatment) Pollution Control Facility

### FOR AGENCY USE ONLY

File Number: _____	Date Rec'd: _____
Certification Number: _____	Date: _____

Facility Type (check one):  Air  Water

This form is to be used for any application for certification of property tax treatment for a pollution control facility for air or water from the Illinois EPA. Separate applications must be completed for each control facility claimed. Do not mix types (air and water). Where both air and water operations are related, file two applications.

If attachments are needed, record them consecutively on an index sheet.

You may complete this form online, save a copy locally, print, sign and submit it to:

Illinois EPA  
Attention: Ray E. Pilapil, Permit Section  
Division of Air Pollution Control  
1021 North Grand Avenue East, P.O. Box 19276  
Springfield, IL 62794-9276

Illinois EPA  
Attention: Al Keller, Permit Section  
Division of Water Pollution Control  
1021 North Grand Avenue East, P.O. Box 19276  
Springfield, IL 62794-9276

### I. Applicant Information:

Company Name: <u>Midwest Generation LLC</u>	Person to Contact for Additional Details: <u>Kathryn Tronsberg Macciocca c/o Duff and Phelps LLC</u>
Person Authorized to Receive Certification: <u>Kathryn Tronsberg Macciocca c/o Duff and Phelps LLC</u>	Street Address: <u>2000 Market Street, Suite 2700</u>
Street Address: <u>2000 Market Street, Suite 2700</u>	City: <u>Philadelphia</u> State: <u>PA</u>
City: <u>Philadelphia</u> State: <u>PA</u>	Zip: <u>19103</u> Phone: <u>(215) 430-6059</u>
Zip: <u>19103</u> Phone: <u>(215) 430-6059</u>	Email Address: <u>Kathryn.Tronsberg@duffandphelps.com</u>
Email Address: <u>Kathryn.Tronsberg@duffandphelps.com</u>	

### II. Facility Information:

Facility Location: Quarter Section: 15 Township: 45 Range: 12  
Municipality: Waukegan Township: 45

Note: A plat map location is requested for facilities located outside of municipal boundaries.

Address: 401 E Greenwood Ave City: Waukegan  
State: IL Zip Code: 60087 County: Lake Book Number: N/A

Property Index Number: 0815200006

Note: The Property Index Number is the numerical reference used to identify a parcel of real property for assessment and taxation purposes.

### Manufacturing Operations Information:

Nature of Operations Conducted at the Above Location:

Waukegan Generating Station utilizes both Oil and Coal-Fired Power Units for the generation of electricity.

### Permit Information:

WPC Construction Permit Number: <u>N/A</u>	Date Issued: <u>N/A</u>
NPDES Permit Number: <u>N/A</u>	Date Issued: <u>N/A</u> Exp. Date: <u>N/A</u>
APC Construction Permit Number: <u>097190AAC</u>	Date Issued: <u>12-02-2013</u>
APC Operating Permit Number: <u>95090047</u>	Date Issued: <u>12-31-2019</u> Exp. Date: <u>06-16-2021</u>

Note: Submit copies of all relevant permits issued by local pollution control agencies. (e.g. MSD Construction Permit)

*This Agency is authorized to request this information under 415 ILCS 5/4(b)(2012). Disclosure of this information is voluntary and no penalties will result from the failure to provide the information. However, the absence of the information could prevent your application from being processed or could result in denial of your application.*

**Manufacturing Process Information:**

Please provide information on the manufacturing process and materials on which pollution control facility is used, including each major piece of equipment associated with the pollution control facility (or low sulfur dioxide emission coal fueled device).  
Description of the Process:

Waukegan Generating Station (the "Facility") is a 986 Mw power generation Facility consisting of two (2) coal-fired boilers and four (4) oil-fired peaking turbines located in Lake County, Illinois. The two coal-fired units, Units #7 and #8, each feature a coal-fired boiler and a steam-turbine generator for the purpose of electric power generation. Unit #7, placed in-service in 1958, is a 328 Mw subcritical boiler unit. Unit #8, placed in-service in 1962, is a 361 Mw subcritical boiler unit. Units #7 & #8 were upgraded with Dry Sorbent Injection ("DSI") System technology in 2015 for the control of SO2 emissions.

**Materials Used in the Process:**

The Facility burns Low-Sulfur Powder River Basin coal in the generation of electricity. Demineralized water is used in the production of high-pressure steam, which is passed through a steam turbine generator-set for the production of electricity. The electricity generated at the Facility is stepped up by Step Up Transformers to the appropriate kV voltage for transmission from the Facility across utility transmission wires. (Materials used in electrical generation at the Facility are typical of those described in public sources outlining electric power generation at coal fired power generation facilities).

**Pollution Control Facility Information:**

Please provide a narrative description of the pollution control facility (or low sulfur dioxide emission coal fueled device), and an explanation of why its primary purpose is to eliminate, prevent or reduce pollution. State the type of control facility, as well as a narrative description and a process flow diagram describing the pollution control facility. Include an average analysis of the influent and effluent of the control facility stating the collection efficiency, if applicable.

Describe the Pollution Control Facility (or Low Sulfur Dioxide Emission Coal Fueled Device):

The Facility has installed DSI Systems on Units #7 & #8 boilers. The DSI systems inject Trona (a mineral form of sodium carbonate and sodium bicarbonate) into the boiler gas paths through duct work at points prior to the units electrostatic precipitators ("ESPs") to control the sulfur dioxide (SO2) emissions of the boilers through an endothermic decomposition process (calcination) followed by an endothermic sulfation process. In addition, modifications to the Units #7 & #8's existing ESPs to accommodate the additional particulate matter ("PM") loading to the ESP from sorbent were made to improve the control efficiency of the ESPs, that control PM emissions from the Units #7 & #8 boilers.

DSI System: Trona is delivered to the Facility via truck and off-loaded into storage silos. The sorbent unloading and handling system includes three (3) sorbent storage silos associated with Units #7 & #8. Each storage silo is equipped with a bin vent filter. From each storage silo, the sorbent is measured through a weigh hopper to a pneumatic conveying system, which blows sorbent (Trona) through a mill and then into the flue gas ductwork using injection lances. See Attachment A-1: Process Flow Diagram of DSI System Installations.

ESP System: Due to the increase in PM by the use of sorbent, alterations were made to the Units #7 & #8 ESPs. These alterations included: installation of high frequency TR sets; new collection plates; the addition of perforated plates; new discharge electrodes; and repairs, ductwork and structural changes. Also, included were the addition of hopper baffles and miscellaneous renovations to the ESP and balance of plant, as needed, covering extensive instrumentation & controls, and electrical upgrades. See Attachment A-2: Process Flow Diagram for ESP System Upgrades.

Describe the Primary Purpose of the Pollution Control Facility (or Low Sulfur Dioxide Emission Coal Fueled Device):

The DSI System additions and required upgrades to Units #7 & #8 ESPs, were installed at the Facility as pollution control facility additions required for the purpose of eliminating and/or reducing SO2 and PM emissions from the Unit trains during coal-fired electric generating purposes.

Identify the statute or regulation (federal or state), or local ordinance, if any, requiring the installation of the subject pollution control facility (or low sulfur dioxide emission coal fueled device).

The DSI System additions were installed to achieve compliance with the Combined Pollutant Standard (CPS). The CPS requires the Company's coal-fired units to reduce the fleet-wide average annual SO2 emissions from 0.44 lb/mmBtu beginning in 2013, declining annually to 0.11 lb/mmBtu in 2019. The CPS mandates that the Waukegan units retrofit FGD technology by December 31, 2018 or permanently shut down. Further, the Illinois Pollution Control Board granted a variance to the SO2 limits contained in the CPS for 2015 and 2016. The 2015 annual fleet-wide SO2 emission limit of 0.28 lb/mmBtu was changed to 0.38 lb/mmBtu. The annual fleet-wide SO2 emission limit for 2016 of 0.105 lb/mmBtu was changed to 0.38 lb/mmBtu. An annual SO2 emissions tonnage cap was set at 57,000 tons SO2 for 2013, 54,000 tons SO2 for 2014, 39,000 tons SO2 for 2015 and 37,000 tons SO2 for 2016. Finally, in addition to mandates set forth in CPS, the Facility must also meet the requirements for NOx and SO2 as outlined in 35 IAC Part 225 Subpart B. The purpose of 35 IAC Part 225 Subpart B is to limit the emissions of mercury, nitrogen oxides and sulfur dioxide from coal-fired electric generating units operating in Illinois. These requirements for SO2 emission reductions as outlined in the CPS and 35 IAC Part 225 Subpart B detailing the particulate emission requirements as set forth in the USEPA Boiler MACTS (Mercury Air Toxics Standards) mandated the addition of SO2 and particulate control technologies on Units #7 & #8.

**Nature of Contaminants or Pollutants:**

List air contaminants or water pollution substances released as effluents to the manufacturing processes. Also list the final disposal of any contaminants removed from the manufacturing processes.

Contaminant or Pollutant	Material Retained, Captured or Recovered *	
	Description	Disposal or Use
PM, PM10, PM2.5 Emissions (Unit 7)	PM Entrained in Flue Gas	PM disposed of in a landfill
SO2 Emissions (Unit 7)	SO2 Entrained in Flue Gas	SO2 entrained as Fly Ash disposed of in landfill
PM, PM10, PM2.5 Emissions (Unit 8)	PM Entrained in Flue Gas	PM disposed of in a landfill
SO2 Emissions (Unit 8)	SO2 Entrained in Flue Gas	SO2 entrained as Fly Ash disposed of in landfill

Note: Contaminant or pollutant means that which is removed from the process by the pollution control facility.

\*See Attachment B-2 & B-3: Permit No. 95090047 for PM & SO2 emissions, Dated December 31, 2019.

**Point(s) of Waste Water Discharge:**

Identify the location of the discharge to the receiving stream. This will typically refer to a source of water pollution but can include water-carried wastes from air pollution control facilities.

Plans and Specifications Attached  Yes  No See Above

Submit Drawings, which clearly show:

- (a) Point(s) of discharge to receiving stream; and
- (b) Sewers and process piping to and from the control facility.

Are contaminants (or residues) collected by the control facility?  Yes  No

Note: If the collected contaminants are disposed of other than as wastes, state the disposition of the materials, and the value dollars reclaimed by the sale or reuse of the collected substances. State the cost of reclamation and related expense.

**Project Status:**

Date Installation Completed: In-Service - 2015

Provide the date the pollution control facility was first placed into service and operated. If not, explain.

Units #7 & #8 DSI System additions and associated ESP modifications complete and placed in service in 2015.

Status of installation on date of application:

Units #7 & #8 DSI System additions and associated ESP modifications complete and placed in service in 2015.

**III. Verification and Signature:**

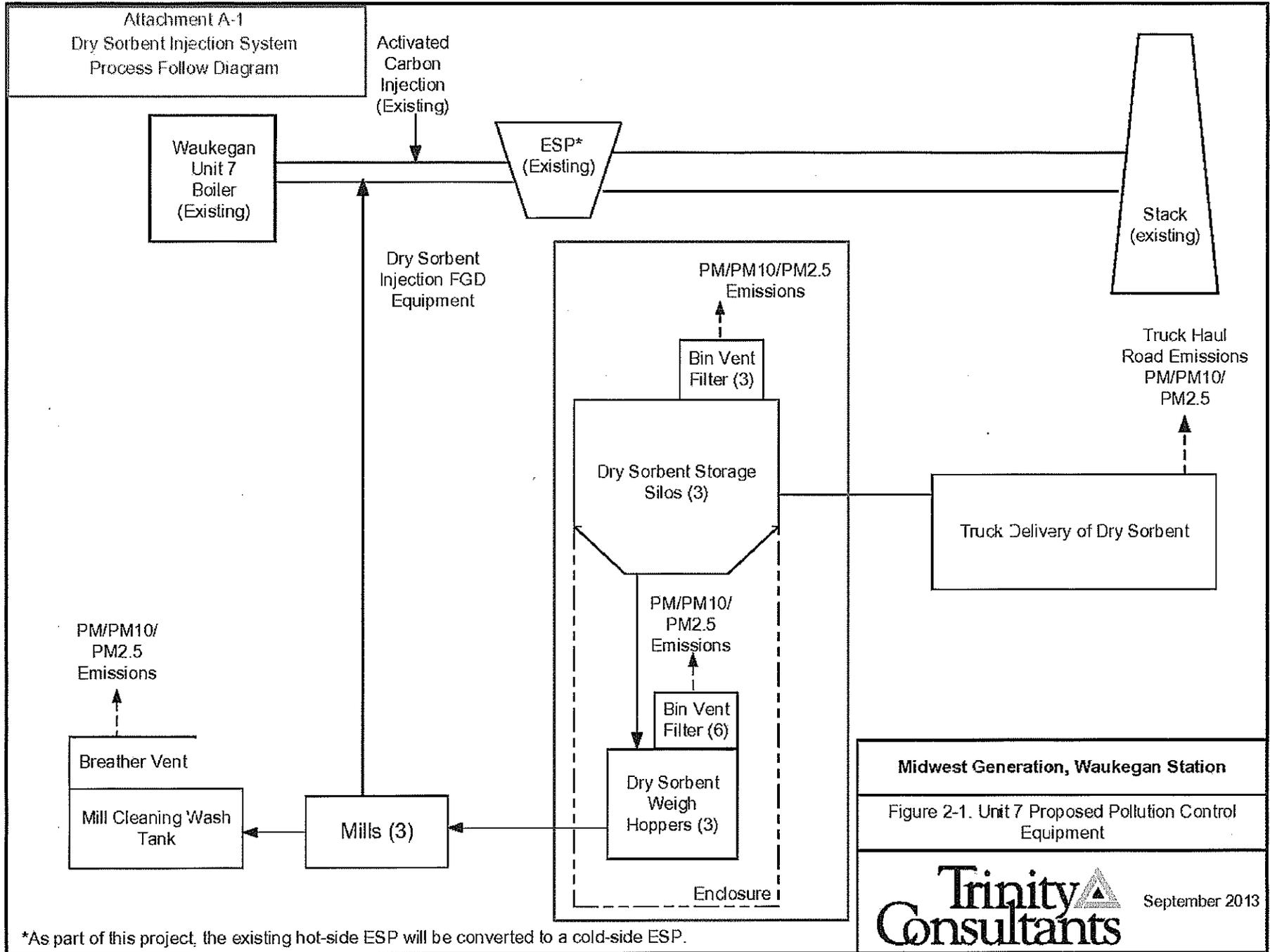
The following information is submitted in accordance with the Illinois Property Tax Code, as amended, and to the best of my knowledge is true and correct.

*Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))*

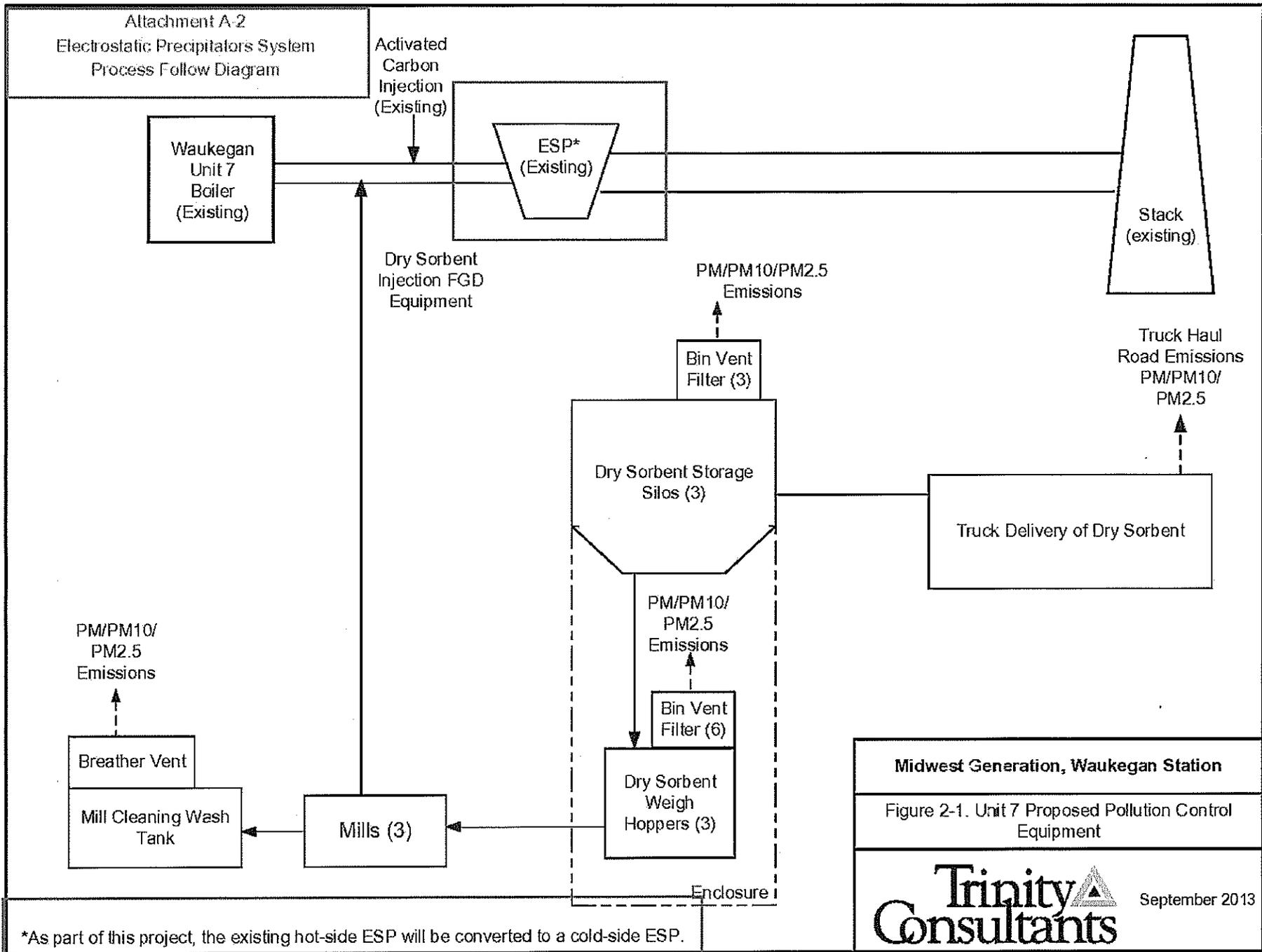
Kathryn Tronsberg Macciocca	Director - Property Tax
Printed Name:	Title:

For incorporated entities, signature should be from an authorized corporate representative.

	July 30, 2020
Signature:	Date:



\*As part of this project, the existing hot-side ESP will be converted to a cold-side ESP.



Attachment B-1

Construction Permit #097190AAC



Maria L. Race  
Director  
Environmental Services

December 2, 2013

Mr. Robert Bernoteit  
Division of Air Pollution Control  
Illinois Environmental Protection Agency  
1021 North Grand Avenue East  
Springfield, Illinois 62702

Subject: Waukegan Unit 8 Flue Gas Desulfurization Equipment  
Construction Permit Application  
Midwest Generation, LLC - Waukegan Generating Station  
I.D. No.: 097190AAC  
County: Lake

Dear Mr. Bernoteit:

Midwest Generation hereby submits a construction permit application for the installation of dry sorbent injection flue gas desulfurization (FGD) equipment at Waukegan Unit 8. The result of the project to be completed under auspices of this permit, as is the case under the construction permits previously approved by the Illinois Environmental Protection Agency (IEPA) for other Midwest Generation facilities, will be to achieve full compliance with the Combined Pollutant Standard (CPS). On April 4, 2013, the Illinois Pollution Control Board approved a variance to the CPS (PCB 13-024), including a condition that Waukegan 8 be equipped with FGD equipment by May 31, 2015, or retired. This condition will be satisfied by the installation of the dry sorbent injection FGD system to reduce sulfur dioxide emissions, consistent with projects subject to construction permit applications previously submitted to the Agency for Midwest Generation's Waukegan Unit 7 and Powerton Units 5 and 6. There will be a slight increase in overall PM/PM10/PM2.5 potential emissions resulting from the material handling activities associated with this project, but such increase does not reach a threshold that would trigger prevention of significant deterioration requirements.

The work to be completed as a part of this project includes the installation of dry sorbent storage silos and associated weigh hoppers, installation of dry sorbent mills, miscellaneous electrostatic precipitator upgrades, minor changes to the ash handling system, increased vehicle miles traveled onsite resulting from the sorbent delivery trucks, and a small increase in the number of fly ash removal trucks.

Attached are two copies of the construction permit application and the associated permit application fee.

If you have any questions regarding this submittal, please contact Jim DiCola of my staff at (630) 771-7863.

Sincerely,

Maria Race  
Director  
Environmental Services

Attachments

755 Remington Blvd.  
Suite A  
Bolingbrook, IL 60440  
Tel: 630 771 7863  
Fax: 630 788 5526  
maria@illinois.gov

Attachment B-2  
 Facility Operating Permit #95090047  
 PM Emissions Limits

Facility	PM (tons/year)
Unit 7	1.95
Unit 8	2.3

Compliance with the annual limits shall be determined from the sum of the data for the current month plus the preceding 11 months (running 12 months total).

- iii. There shall be no visible emissions of fugitive particulate matter from the sorbent handling facilities.
- iv. The filters for the affected sorbent handling facilities shall have a design outlet loading for particulate matter of no more than 0.01 grains/scf, as shown by the manufacturer's performance specifications for the device or representative emission test data for similar filter devices.
- c. Pursuant to Construction Permits 10090034 and 13120007, the Permittee shall maintain and repair filters, and other control measures to assure that such measures function properly when material is being handled. [T1]
- d. Pursuant to Construction Permits 10090034 and 13120007, the transport of dry sorbent to the sorbent silos shall be on paved roads, which shall be maintained in good condition to control emissions of particulate matter. [T1]
- e. Pursuant to Construction Permits 10090034 and 13120007, PM emissions due to vehicle traffic on plant roadways associated with transport of sorbent shall not exceed 1.1 tons per year. [T1]

7.7.7 Opacity Observation Requirements

- a. Pursuant to 40 CFR 60.675(c)(1), in determining compliance with the opacity standards in Condition 7.7.4(a), the Permittee shall use Reference Method 9 and the procedures in 40 CFR 60.11 with the following additions:
  - i. The minimum distance between the observer and emission source shall be 15 feet.
  - ii. The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust).
  - iii. The observer position relative to the sun required by Reference Method 9 must be followed.

Attachment B-3  
 Facility Operating Permit #95090047  
 SO2 Emissions Limits

10.5 Attachment 5 Acid Rain Program Permit

217-785-1705

**Renewal ACID RAIN PROGRAM  
 PERMIT**

Midwest Generation, LLC  
 Attn: Fredrick Veenbaas  
 401 East Greenwood Avenue  
 Waukegan, Illinois 60087-5197  
 Designated Representative: Robert Huschak/Plant Manager  
 Alternate Designated Representative: Frank Ameo/Sr. General Manager

Oris No.: 883  
IEPA I.D. No.: 097190AAC  
Source/Unit: Waukegan Generating Station/Units 7 and 8  
Date Received: June 12, 2019  
Date Issued: December 31, 2019  
Expiration Date: June 16, 2021

**STATEMENT OF BASIS:**

In accordance with Section 39.5(17) of the Illinois Environmental Protection Act and Titles IV and V of the Clean Air Act, the Illinois Environmental Protection Agency is issuing this Acid Rain Program permit, including requested revisions, to Midwest Generation, LLC for its Waukegan Station.

**SULFUR DIOXIDE (SO<sub>2</sub>) ALLOCATIONS AND NITROGEN OXIDES (NO<sub>x</sub>) REQUIREMENTS FOR EACH AFFECTED UNIT:**

UNIT	SO <sub>2</sub> Allowances, under Tables 2, 3, or 4 of 40 CFR Part 73	2019 and Beyond
		6,314
	NO <sub>x</sub> Limit	0.40 lb/mmBtu (Standard Limit for Phase II Tangentially Fired Boiler)
UNIT 8	SO <sub>2</sub> Allowances, under Tables 2, 3, or 4 of 40 CFR Part 73	2019 and Beyond
		5,005
	NO <sub>x</sub> Limit	0.40 lb/mmBtu (Standard Limit for Phase II Tangentially Fired Boiler)



**ILLINOIS ENVIRONMENTAL 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

**Memorandum**

**Technical Recommendation for Tax Certification Approval**

Date: August 18, 2020

To: Robb Layman, Assistant Counsel

From: Bob Bernoteit, Unit Manager, Permits Section *P-B*

Subject: Midwest Generation, LLC  
Waukegan Generating Station, Lake County

The Illinois EPA received a request on August 5, 2020, from Midwest Generation, LLC, for an Illinois EPA recommendation regarding tax certification of air pollution control facilities pursuant to 35 Ill. Adm. Code 125.204. In consultation with my staff, I approve the following recommendation:

The air pollution control facilities in this request include the following:

Dry Sorbent Injection System project, which was implemented in 2015 and consisted of modifications to the Unit Nos. 7 and 8 Electrostatic Precipitators to add dry sorbent injection to allow for further control of sulfur dioxide (SO<sub>2</sub>) from the flue gases of the coal-fired boilers. Because the primary purpose of the project is to reduce or prevent air pollution and will enable the source to assure compliance with 35 Ill. Adm. Code 214.141 of the Pollution Control Board's environmental regulations, it can be certified as a pollution control facility.

This facility is located at 401 East Greenwood Avenue, Waukegan.  
The property identification number is 0815200006.

Based on the information included in this submittal, it is the Division of Air Pollution Control's engineering judgment that the proposed facility may be considered "Pollution Control Facilities" under 35 IAC 125.200(a), with the primary purpose of preventing or reducing air pollution, or as otherwise provided in this section, and is therefore eligible for tax certification from the Illinois Pollution Control Board. Therefore, it is the Illinois EPA's recommendation that the Board issue the requested tax certification for this facility.

*Exhibit B*