

NPDES Permit No. IL0000108  
Notice No.SMT:05012101.daa

Public Notice Beginning Date: **July 30, 2009**

Public Notice Ending Date: **August 31, 2009**

National Pollutant Discharge Elimination System (NPDES)  
Permit Program

Draft Modified NPDES Permit to Discharge into Waters of the State

Public Notice/Fact Sheet Issued By:

Illinois Environmental Protection Agency  
Bureau of Water, Division of Water Pollution Control  
Permit Section  
1021 North Grand Avenue East  
Post Office Box 19276  
Springfield, Illinois 62794-9276  
217/782-0610

Name and Address of Discharger:

Ameren Energy Generating Company  
One Ameren Plaza  
1901 Chouteau Avenue, MC - 602  
Post Office Box 66149  
St. Louis, Missouri 63166-6149

Name and Address of Facility:

Coffeen Power Station  
134 CIPS Lane  
Coffeen, Illinois 62017  
(Montgomery County)

The Illinois Environmental Protection Agency (IEPA) has made a tentative determination to issue a NPDES permit to discharge into the waters of the state and has prepared a draft permit and associated fact sheet for the above named discharger. The Public Notice period will begin and end on the dates indicated in the heading of this Public Notice/Fact Sheet. The last day comments will be received will be on the Public Notice period ending date unless a commentor demonstrating the need for additional time requests an extension to this comment period and the request is granted by the IEPA. Interested persons are invited to submit written comments on the draft permit to the IEPA at the above address. Commentors shall provide his or her name and address and the nature of the issues proposed to be raised and the evidence proposed to be presented with regards to those issues. Commentors may include a request for public hearing. Persons submitting comments and/or requests for public hearing shall also send a copy of such comments or requests to the permit applicant. The NPDES permit and notice number(s) must appear on each comment page.

The application, engineer's review notes including load limit calculations, Public Notice/Fact Sheet, draft permit, comments received, and other documents are available for inspection and may be copied at the IEPA between 9:30 a.m. and 3:30 p.m. Monday through Friday when scheduled by the interested person.

If written comments or requests indicates a significant degree of public interest in the draft permit, the permitting authority may, at its discretion, hold a public hearing. Public notice will be given 45 days before any public hearing. Response to comments will be provided when the final permit is issued. For further information, please call Shu-Mei Tsai at 217/782-0610.

The applicant operates Coffeen Power Station which is an existing 950 MW coal fired steam-electric generating station (SIC 4911). Cooling and service water for the power station is provided by Coffeen Lake which occupies 1100 acres. Once through cooling systems are used to cool the main condensers of each unit and condenser cooling water is discharged from the units to Coffeen Lake for dissipation of waste heat via flume. Service water is used for make-up to the recycle pond (approximately 23 acres) and to the water treatment plant. A municipal water supply is utilized for sanitary use and make-up to the water treatment plant.

Plant operation results in a total discharge of 0.144 MGD of condenser cooling water discharge flume from outfall 001; 527.69 MGD of condenser cooling water diversion channel overflow from outfall 020; 37.97 MGD of supplemental cooling pond discharge from outfall 021; 85.35 MGD of supplemental cooling tower discharge from outfall 022; intermittent discharge of boiler draining wastewater from outfall A01; 0.39 MGD of raw water treatment and demineralizer regenerant waste from outfall B01; intermittent discharge of unit 1 floor and equipment drains from outfall C01; 0.0085 MGD of sewage treatment plant effluent from outfall D01; intermittent discharge of unit 2 floor and equipment drains from outfall E01; intermittent discharge of maintenance shop oil/water separator from outfall F01; intermittent discharge of equalization tank bypass line discharge from outfall G01 which occurs during maintenance of the equalization tank; 0.6 MGD of coal yard settling pond discharge from outfall 002; 0.07 MGD of intake screen backwash from outfall 003; intermittent discharge of rail spur storm water runoff from outfalls 008-016; the intermittent discharge of storm water runoff associated with a dry landfill from outfall 018;

the intermittent discharge of storm water runoff from a closed ash pond from Outfalls 023 and 024; and the intermittent discharge of storm water runoff from Outfall 024.

The following modification is proposed: Outfall 018 is being added for the discharge of stormwater associated with the operation of a new dry ash landfill, and Outfalls 023 and 024 are being added for the discharge of stormwater from a closed ash pond due to work being conducted on the closed ash ponds cap to improve drainage.

Application is made for new and existing discharges which are located in Montgomery County, Illinois. The following information identifies the discharge point, receiving stream and stream classifications:

Outfall	Receiving Stream	Latitude	Longitude	Stream Classification	Biological Stream Characterization
001	Coffeen Lake	39° 03' 36" North	89° 23' 28" West	General Use	Not Rated
020	Coffeen Lake	39° 03' 34" North	89° 23' 28" West	General Use	Not Rated
021	Coffeen Lake	39° 03' 37" North	89° 23' 25" West	General Use	Not Rated
022	Coffeen Lake	39° 03' 31" North	89° 23' 23" West	General Use	Not Rated
A01	Coffeen Lake	39° 03' 34" North	89° 23' 28" West	General Use	Not Rated
B01	Coffeen Lake	39° 03' 34" North	89° 23' 28" West	General Use	Not Rated
C01	Coffeen Lake	39° 03' 34" North	89° 23' 15" West	General Use	Not Rated
D01	Coffeen Lake	39° 03' 34" North	89° 23' 28" West	General Use	Not Rated
E01	Coffeen Lake	39° 03' 34" North	89° 23' 28" West	General Use	Not Rated
F01	Coffeen Lake	39° 03' 34" North	89° 23' 28" West	General Use	Not Rated
G01	Coffeen Lake	39° 03' 34" North	89° 23' 28" West	General Use	Not Rated
002	Coffeen Lake	39° 03' 16" North	89° 24' 19" West	General Use	Not Rated
003	Coffeen Lake	39° 03' 36" North	89° 24' 18" West	General Use	Not Rated
008	Coffeen Lake	39° 03' 16" North	89° 23' 56" West	General Use	Not Rated
009	Coffeen Lake	39° 03' 14" North	89° 23' 57" West	General Use	Not Rated
010	Coffeen Lake	39° 03' 12" North	89° 23' 57" West	General Use	Not Rated
011	Coffeen Lake	39° 03' 01" North	89° 24' 01" West	General Use	Not Rated
012	Coffeen Lake	39° 02' 57" North	89° 23' 54" West	General Use	Not Rated
013	Coffeen Lake	39° 02' 39" North	89° 23' 41" West	General Use	Not Rated
014	Coffeen Lake	39° 02' 36" North	89° 23' 38" West	General Use	Not Rated
015	Coffeen Lake	39° 03' 19" North	89° 24' 02" West	General Use	Not Rated
016	Coffeen Lake	39° 03' 39" North	89° 24' 18" West	General Use	Not Rated
018	Coffeen Lake	39° 03' 55" North	89° 24' 12" West	General Use	Not Rated
023	Coffeen Lake	39° 03' 43" North	89° 23' 29" West	General Use	Not Rated
024	Coffeen Lake	39° 03' 37" North	89° 23' 42" West	General Use	Not Rated

To assist you further in identifying the location of the discharge please see the attached map.

The stream segment receiving the discharge from the above outfalls is on the 303 (d) list of impaired waters for secondary contact uses. The following parameters have been identified as the pollutants causing impairment:

Pollutants	Potential Contributors
Siltation, Thermal Modification, Priority Organics, Nutrients and Phosphorus	Industrial Point Sources, Agriculture, Crop Related Sources, Non-irrigated Crop Production, Streambank Modification/Destabilization, and Forest/Grassland/Parkland

The discharge(s) from the facility shall be monitored and limited at all times as follows:

Outfalls: 001, 020, 021 and 022 (Condenser Cooling Water Discharge Flume, Condenser Cooling Water Diversion Channel Overflow, Supplemental Cooling Pond Discharge and Supplemental Cooling Tower Discharge)

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		REGULATION	CONCENTRATION LIMITS mg/l		REGULATION
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM	
Flow						
PH					6 - 9 S.U.	35 IAC 304.125
Total Residual Chlorine				--	0.2	40 CFR 423
Temperature						IPCB Order 77-158

The following explain the conditions of the proposed permit:

Special Condition 5 contains the temperature limitations set forth in IPCB Order 77 - 158.

The discharge(s) from the facility shall be monitored and limited at all times as follows:

Outfalls: 002 (Coal Yard Settling Pond Discharge)

PARAMETER	LOAD LIMITS lbs/day <u>DAF (DMF)</u>		REGULATION	CONCENTRATION <u>LIMITS mg/l</u>		REGULATION
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM	
Flow						
PH					6 - 9 S.U.	35 IAC 304.125
Total Suspended Solids				35	50	BPJ
Oil and Grease				15	20	40 CFR 423
Boron					1.8	35 IAC 302
Total Dissolved Solids					1300	35 IAC 302
Manganese				1.0	1.3	35 IAC 302
Iron (total)				2.0	4.0	35 IAC 304

Outfalls: 018 (Storm Water Runoff Associated with the Ash Landfill)

PARAMETER	LOAD LIMITS lbs/day <u>DAF (DMF)</u>		REGULATION	CONCENTRATION <u>LIMITS mg/l</u>		REGULATION
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM	
Flow						
pH					6 - 9 S.U.	35 IAC 304.125
Total Suspended Solids				15	30	35 IAC 304.124
Sulfate				Monitor Only		
Iron (Total)				Monitor Only		
Boron					1.0	35 IAC 302.208
Mercury				Monitor Only		

Outfalls: 023 (East Stormwater from Closed Ash Pond)

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		REGULATION	CONCENTRATION LIMITS mg/l		REGULATION
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM	
Flow						
pH					6 - 9 S.U.	35 IAC 304.125
Chloride				Monitor Only		
Sulfate				Monitor Only		
Iron (Total)				Monitor Only		
Boron				Monitor Only		
Mercury				Monitor Only		

Outfalls: 024 (South Stormwater from Closed Ash Pond)

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		REGULATION	CONCENTRATION LIMITS mg/l		REGULATION
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM	
Flow						
pH					6 - 9 S.U.	35 IAC 304.125
Chloride				Monitor Only		
Sulfate				Monitor Only		
Iron (Total)				Monitor Only		
Boron				Monitor Only		
Mercury				Monitor Only		

Antidegradation Assessment for Ameren Coffeen Station  
NPDES Permit No. IL0000108      Montgomery County

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The subject facility has applied for an NPDES permit for an additional discharge that will vary in volume because it is stormwater related. The power plant is adding air emissions scrubbers that will produce gypsum byproduct. Landfills are being created for disposal of the gypsum and for fly and bottom ash. Stormwater falling on the ash will be collected in a basin where it may either be pumped to the Gypsum Management Facility or discharged to Coffeen Lake. Collected landfill runoff entering the Gypsum Management Facility will be consumed in that facility and will not be discharged. Rainwater contacting the ash before the ash is covered will acquire minor amounts of ash constituents.

#### **Identification and Characterization of the Affected Water Body.**

Coffeen Lake (segment ROG) is an artificial cooling lake. The lake is listed on the Illinois Integrated Water Quality Report and Section 303(d) partially approved 2008 List. Fish consumption use, with a cause of mercury, and aesthetic quality use with causes of aquatic plants (non-pollutant), total phosphorus and total suspended solids, are impaired. The 2006 List did not include the fish consumption use impairment. A TMDL has been completed for Coffeen Lake that sets allocations for phosphorus. The IDNR WIRT system does not list any state threatened or endangered aquatic species as residing in the receiving water body.

#### **Identification of Proposed Pollutant Load Increases or Potential Impacts on Uses.**

The ash landfill is being created within the watershed of Coffeen Lake through the conversion of cropland. Stormwater runoff entered the lake from the site with the usual complement of substances from farmland including nutrients and total suspended solids. The ash landfill will reduce suspended solids and phosphorus due to the settling basin. Other substances, such as boron and other constituents of the ash will be added to the stormwater. A similar Ameren power plant has an ash landfill settling pond from which a water quality sample was taken to act as a surrogate to aid in predicting the quality of the stormwater. Boron was measured at 0.37 mg/L and sulfate at 220 mg/L. These concentrations are just slightly above background levels for Illinois streams. No increases in loading of the contaminant addressed in the TMDL will occur. No impacts on the uses of the lake are anticipated from the new outfall.

#### **Fate and Effect of Parameters Proposed for Increased Loading.**

Boron and other inorganic substances will persist in the lake unless removed by aquatic organisms. Concentrations in the lake will be adjusted by the periodic overflow of the lake through the dam spillway. Elevation of boron and sulfate should not occur to any significant degree.

#### **Purpose and Anticipated Benefits of the Proposed Activity.**

The power company is bound by agreements to provide air emissions controls and must dispose of the byproducts created from this process. The community and region will benefit from cleaner air.

#### **Assessments of Alternatives for Less Increase in Loading or Minimal Environmental Degradation.**

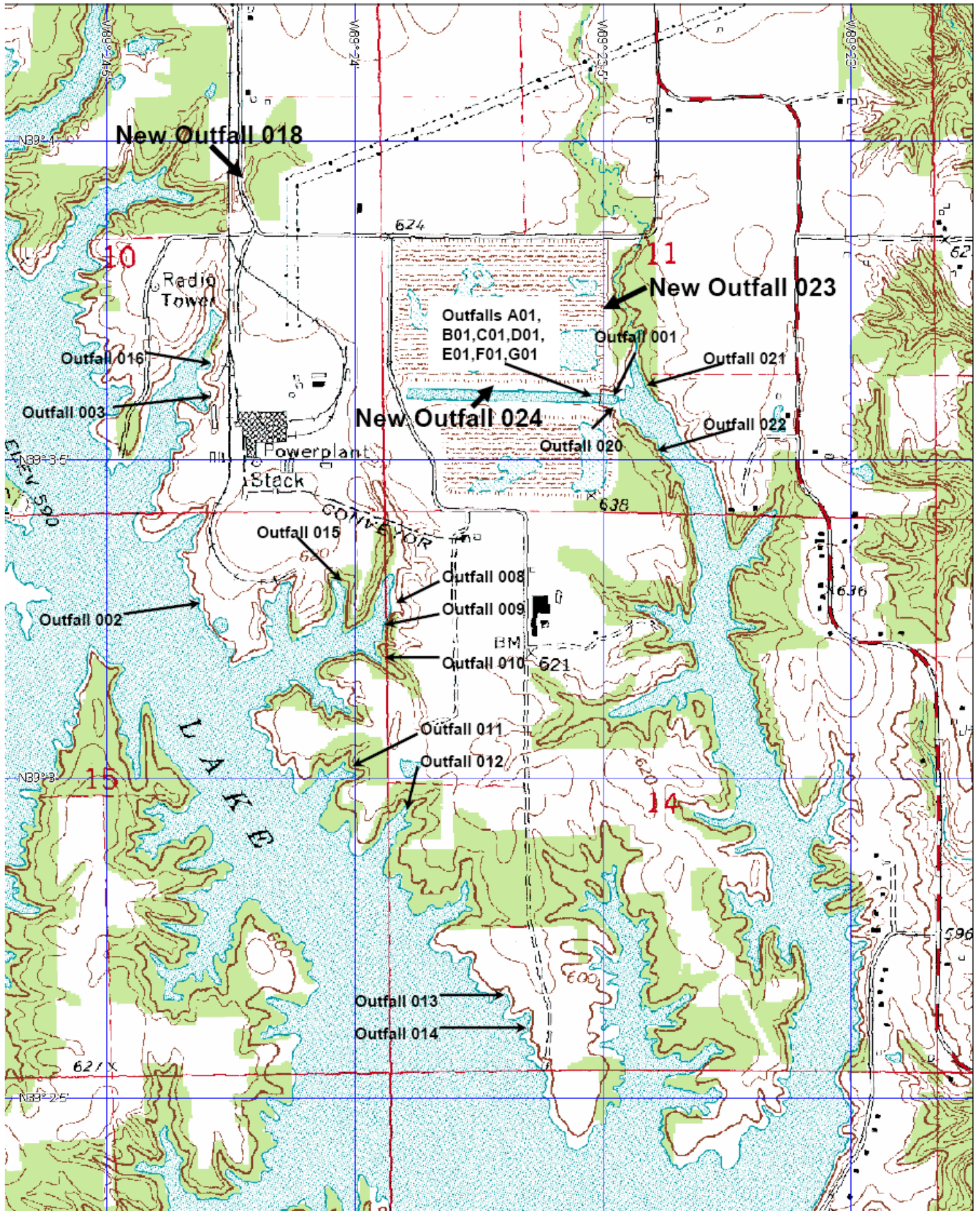
Landfilling of coal ash and scrubber byproducts is an accepted practice. Collection of stormwater runoff in settling ponds is universal practice for providing treatment. The quality of the stormwater generated has been proven to be good at a similar facility. The plant is recycling the landfill runoff at its Gypsum Management Facility to the extent possible. No other alternatives are conceivable.

#### **Summary Comments of the Illinois Department of Natural Resources, Regional Planning Commissions, Zoning Boards or Other Entities**

The Illinois Department of Natural Resources was consulted regarding threatened and endangered species issues via the EcoCAT system on March 25, 2009. It was immediately determined that no threatened or endangered species reside in the receiving water body and consultation was terminated.

#### **Agency Conclusion.**

This preliminary assessment was conducted pursuant to the Illinois Pollution Control Board regulation for Antidegradation found at 35 Ill. Adm. Code 302.105 (antidegradation standard) and was based on the information available to the Agency at the time the draft permit was written. We tentatively find that the proposed activity will result in the attainment of water quality standards; that all existing uses of the receiving stream will be maintained; that all technically and economically reasonable measures to avoid or minimize the extent of the proposed increase in pollutant loading have been incorporated into the proposed activity; and that this activity will benefit the community at large by providing for better air emissions control. Comments received during the NPDES permit public notice period will be evaluated before a final decision is made by the Agency.



Public Notice of Draft Permit

Public Notice Number SMT:05012101.daa is hereby given by Illinois EPA, Division of Water Pollution Control, Permit Section, 1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276 (herein Agency) that a draft reissued National Pollutant Discharge Elimination System (NPDES) Permit Number IL0000108 has been prepared under 40 CFR 124.6(d) for Ameren Energy Generating Company, One Ameren Plaza, 1901 Chouteau Avenue, MC-602, Post Office Box 66149, St. Louis, Missouri 63166-6149 for discharge into Coffeen Lake from the Coffeen Power Station, 134 CIPS Lane, Coffeen, Illinois 62017. Applicant operates an existing 950 MW coal fired steam electric generating station. The facility discharges non-contact cooling water, boiler draining wastewater, water treatment wastes, sewage treatment plant effluent, coal pile runoff, floor drains and sump discharges, intake screen backwash and storm water associated with industrial activity to Coffeen Lake.

The permittee is proposing to add a new stormwater runoff Outfall 018 from a new stormwater basin associated with a new dry landfill for fly ash and bottom ash, and Outfalls 023 and 024 are being added for the discharge of stormwater from a closed ash pond due to work being conducted on the closed ash ponds cap to improve drainage.

The application, draft permit and other documents are available for inspection and may be copied at the Agency between 9:30 A.M. and 3:30 P.M. Monday through Friday. A Fact Sheet containing more detailed information is available at no charge. For further information, call the Public Notice Clerk at 217/782-0610.

Interested persons are invited to submit written comments on the draft permit to the Agency at the above address. The NPDES Permit and Joint Public Notice numbers must appear on each comment page. All comments received by the Agency not later than 30 days from the date of this publication shall be considered in making the final decision regarding permit issuance.

Any interested person may submit written request for a public hearing on the draft permit, stating their name and address, the nature of the issues proposed to be raised and the evidence proposed to be presented with regards to these issues in the hearing. Such requests must be received by the Agency not later than 30 days from the date of this publication.

If written comments and/or requests indicate a significant degree of public interest in the draft permit, the permitting authority may, at its discretion, hold a public hearing. Public notice will be given 45 days before any public hearing.

SAK:SMT:05012101.daa

NPDES Permit No. IL0000108

Illinois Environmental Protection Agency

Division of Water Pollution Control

1021 North Grand Avenue East

Post Office Box 19276

Springfield, Illinois 62794-9276

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

Modified (NPDES) Permit

Expiration Date: **January 31, 2013**

Issue Date: **January 29, 2008**

Effective Date: **February 1, 2008**

Modification Date:

Name and Address of Permittee:

Ameren Energy Generating Company  
One Ameren Plaza  
1901 Chouteau Avenue, MC - 602  
Post Office Box 66149  
St. Louis, Missouri 63166-6149

Facility Name and Address:

Coffeen Power Station  
134 CIPS Lane  
Coffeen, Illinois 62017  
(Montgomery County)

Discharge Number and Name:

Receiving Waters:

No. 001	Condenser Cooling Water Flume Discharge	Coffeen Lake
No. 020	Condenser Cooling Water Diversion Channel Overflow	Coffeen Lake
No. 021	Condenser Cooling Water Supplemental Cooling Pond Overflow	Coffeen Lake
No. 022	Condenser Cooling Water Supplemental Cooling Tower Discharge	Coffeen Lake
No. A01	Boiler Draining Wastewater	Coffeen Lake
No. B01	Raw Water Treatment and Demineralizer Regenerant Wastes	Coffeen Lake
No. C01	Unit 1 Floor Drains and Sumps	Coffeen Lake
No. D01	Sewage Treatment Plant Discharge	Coffeen Lake
No. E01	Unit 2 Floor Drains and Sumps	Coffeen Lake
No. F01	Maintenance Shop Oil/Water Separator	Coffeen Lake
No. G01	Equalization Tank Bypass Line Discharge	Coffeen Lake
No. 002	Coal Yard Settling Pond Discharge	Coffeen Lake
No. 003	Intake Screen Backwash	Coffeen Lake
No. 008, 009, 010, 011, 012, 013, 014, 015, 016	Storm Water Runoff from Rail Spur	Coffeen Lake
No.018	Storm Water Runoff Associated with Ash Landfill	Coffeen Lake
No.023	East Stormwater From Closed Ash Pond	Coffeen Lake
No.024	South Stormwater From Closed Ash Pond	Coffeen Lake

In compliance with the provisions of the Illinois Environmental Protection Act, Title 35 of Ill. Adm. Code, Subtitle C and/or Subtitle D, Chapter 1, and the Clean Water Act (CWA), the above-named permittee is hereby authorized to discharge at the above location to the above-named receiving stream in accordance with the standard conditions and attachments herein.

Permittee is not authorized to discharge after the above expiration date. In order to receive authorization to discharge 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.

Alan Keller, P.E.  
Manager, Permit Section  
Division of Water Pollution Control

SAK:SMT:05012101.daa

NPDES Permit No. IL0000108

Effluent Limitations and Monitoring

1. From the effective date of this permit until the expiration date, the effluent of the following discharge(s) shall be monitored and limited at all times as follows:

Outfall(s): 001\*, 020, 021 and 022

PARAMETER	LOAD LIMITS lbs/day <u>DAF (DMF)</u>		CONCENTRATION <u>LIMITS mg/l</u>		SAMPLE FREQUENCY	SAMPLE TYPE
	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM		
This discharge consists of:			Approximate Flow:			
1. Condenser cooling water discharge flume				0.144 MGD		
2. Condenser cooling water diversion channel overflow				527.69 MGD		
3. Supplemental Cooling pond discharge				37.97 MGD		
4. Supplemental Cooling tower discharge				85.35 MGD		
5. Miscellaneous heat exchanger cooling water discharges				48.0 MGD		
6. Boiler draining wastewater				0.075 MGD		
7. Raw water treatment and demineralizer regenerant waste				0.390 MGD		
8. Sewage treatment plant effluent				0.0085 MGD		
9. Maintenance shop oil/water separator discharge				Intermittent		
10. Equalization tank bypass line discharge				Intermittent		
11. Stormwater runoff**				Intermittent		
12. Chemical containment area drains				Intermittent		
13. Unit 1 floor and equipment drains ***				Intermittent		
14. Unit 2 floor and equipment drains***				Intermittent		
15. Emergency recycle pond overflow				Intermittent		
Flow					Daily	Continuous Recording
pH	See Special Condition No. 2				2/Month	Grab
Total Residual Chlorine	See Special Condition No. 4		--	0.2	2/Month	Grab
Temperature	See Special Condition No. 5				Daily	Continuous Recording

\*Outfall 001 is the discharge of leakage through a stoplog structure. Flow shall be estimated twice per month and reported accordingly.

\*\* See Special Condition 14.

\*\*\* These contributory waste streams are routed through an oil/water separator prior to discharge.

Flow shall be sampled daily by continuous recording at Outfalls 001, 020, 021 and 022 when discharging.

pH shall be sampled 2/month when discharging. Sampling point for 001, 020 and 022 shall be at a point within the cooling water discharge flume. Sampling point for 021 shall be at the supplemental cooling pond overflow, prior to discharge to Coffeen Lake.

Total residual chlorine shall be sampled 2/month when discharging. Sampling point for 001, 020, 021 and 022 shall be at a point within the cooling water discharge flume.

Temperature shall be sampled daily by continuous recording at the edge of the mixing zone in Coffeen Lake.

NPDES Permit No. IL0000108

Effluent Limitations and Monitoring

1. From the effective date of this permit until the expiration date the effluent of the following discharge(s) shall be monitored and limited at all times as follows:

Outfall(s): A01 Boiler Draining Wastewater

PARAMETER	LOAD LIMITS lbs/day		CONCENTRATION LIMITS mg/l		SAMPLE FREQUENCY	SAMPLE TYPE
	30 DAY AVG.	DAILY MAX.	30 DAY AVG.	DAILY MAX.		
Approximate Flow: Intermittent						
Flow					When discharging	Measure when monitoring
Total Suspended Solids			15.0	30.0	1/Year when discharging	Grab
Oil and Grease			15.0	20.0	1/Year when discharging	Grab

Outfall(s): B01 Raw Water Treatment and Demineralizer\*\*\*  
Regenerant Wastes

This discharge consists of		Approximate Flow:				
1. Raw Water Treatment and Demineralizer Regenerant Wastes		0.39 MGD				
2. Chemical Containment Area Drains		Intermittent				
Flow					2/Month	Measure when monitoring
Total Suspended Solids			15.0	30.0	2/Month	8-Hr. Composite
Total Dissolved Solids	See Special Condition No. 6				2/Month	Grab
Oil and Grease			15.0	20.0	1/Quarter	Grab

\*\*\* These waste streams are routed to an 80,000 gallon capacity equalization tank prior to discharge to the cooling water discharge flume.

NPDES Permit No. IL0000108

Effluent Limitations and Monitoring

1. From the effective date of this permit until the expiration date the effluent of the following discharge(s) shall be monitored and limited at all times as follows:

Outfall(s): C01 Unit 1 Floor Drains and Sumps\*\*\*\*

PARAMETER	LOAD LIMITS lbs/day		CONCENTRATION LIMITS mg/l		SAMPLE FREQUENCY	SAMPLE TYPE
	30 DAY AVG.	DAILY MAX.	30 DAY AVG.	DAILY MAX.		

This discharge consists of:

Approximate Flow:

1. Floor drains and sump discharges
2. Storm water runoff

Intermittent  
Intermittent

Flow					2/Month	24-Hr. Total
Total Suspended Solids			15.0	30.0	2/Month	8-Hr. Composite
Oil and Grease			15.0	20.0	2/Month	Grab

\*\*\*\* Outfall C01 includes storm water associated with industrial activity which comes into contact with the floor drain and sump discharges prior to discharge into the receiving stream. The above limitations and monitoring requirements apply only to the floor drain and sump discharges. For requirements concerning the storm water portion of the discharge, see Special Condition No. 14.

Outfall(s): D01 Sewage Treatment Plant Discharge (DAF = 0.0085 MGD) (DMF 0.03 MGD)

Flow					2/Month	Measure When monitoring
pH	See Special Condition No. 2				2/Month	Grab
Total Suspended Solids	4.5	15.0	30.0	60.0	2/Month	8-Hr. Composite
BOD <sub>5</sub>	4.5	15.0	30.0	60.0	2/Month	8-Hr. Composite
Total Residual Chlorine	See Special Condition No. 7				Daily	Grab

Outfall(s): E01 Unit 2 Floor Drains and Sumps\*\*\*\*\*

This discharge consists of:

Approximate Flow:

1. Floor drains and sump discharges
2. Storm water runoff

Intermittent  
Intermittent

Flow					2/Month	24-Hr. Total
Total Suspended Solids			15.0	30.0	2/Month	8-Hr. Composite
Oil and Grease			15.0	20.0	2/Month	Grab

\*\*\*\*\*Outfall E01 includes storm water associated with industrial activity which comes into contact with the floor drain and sump discharges prior to discharge into the receiving stream. The above limitations and monitoring requirements apply only to the floor drain and sump discharges. For requirements concerning the storm water portion of the discharge, see Special Condition No. 14. See Special Condition No. 16.

NPDES Permit No. IL0000108

Effluent Limitations and Monitoring

1. From the effective date of this permit until the expiration date the effluent of the following discharge(s) shall be monitored and limited at all times as follows:

Outfall(s): F01 Maintenance Shop Oil/Water Separator Discharge\* (Intermittent Discharge)

\* Special Condition 23

Outfall(s): G01 Equalization Tank Bypass Line Discharge\*\*\*\*\*

PARAMETER	LOAD LIMITS lbs/day		CONCENTRATION LIMITS mg/l		SAMPLE FREQUENCY	SAMPLE TYPE
	30 DAY AVG.	DAILY MAX.	30 DAY AVG.	DAILY MAX.		
This discharge consists of			Approximate Flow:			
1. Regenerant Wastes and Demineralizer			0.224 MGD			
2. Chemical Containment Area Drains			Intermittent			
Flow					Daily when discharging	Estimate
Total Suspended Solids			15.0	30.0	Daily when discharging	8-Hr. Composite
Oil and Grease			15.0	20.0	1/Week when discharging	Grab

\*\*\*\*\* The Permittee shall restrict the use of the bypass of the equalization tank to required maintenance of the tank and once bypassing commences such maintenance shall be promptly undertaken to minimize the length of time of bypass of the equalization tank.

NPDES Permit No. IL0000108

Effluent Limitations and Monitoring

1. From the effective date of this permit until the expiration date the effluent of the following discharge(s) shall be monitored and limited at all times as follows:

Outfall(s): 002 Coal Yard Settling Pond Discharge

PARAMETER	LOAD LIMITS lbs/day		CONCENTRATION LIMITS mg/l		SAMPLE FREQUENCY	SAMPLE TYPE
	30 DAY AVG.	DAILY MAX.	30 DAY AVG.	DAILY MAX.		
This discharge consists of:			Approximate Flow:			
1. Stormwater runoff from the coal yard and southwest plant yard area*****			Intermittent			
2. Raw water treatment plant wastes			0.06 MGD			
3. Coal crusher house sump pit discharge			0.42 MGD			
4. Ash dewatering bin overflows			Intermittent			
5. Tractor shed oil/water separator			0.005 MGD			
6. Coal recovery pond effluent			Intermittent			
7. Recycled pond level control*			Intermittent			
8. Ultrasonic resin cleaner backwash			0.01 MGD			
9. Coal unloading septic system			0.0002 MGD			
10. Fuel unloading oil/water separator			Intermittent			
11. Tripper room floor drains			0.003 MGD			
12. Limestone runoff pond emergency overflow			Intermittent			
13. Warehouse/maintenance shop oil/water separator			Intermittent			
Flow					1/Week	Measure when monitoring
pH	See Special Condition No. 2				1/Week	Grab Sample when discharging
Total Suspended Solids			35.0	50.0	1/Week	24-Hr. Composite when discharging
Oil and Grease			15.0	20.0	1/Month	Grab Sample when discharging
Boron	See Special Condition No. 8			1.8	1/Month	8-Hr. Composite when discharging
Total Dissolved Solids	See Special Condition No. 8			1300.0	1/Month	8-Hr. Composite when discharging
Manganese	See Special Condition No. 8		1.0	1.3	1/Month	8-Hr. Composite when discharging
Iron (total)			2.0	4.0	1/Quarter	8-Hr. Composite when discharging
Mercury	See Special Condition No. 20				1/Quarter	Grab

\*\*\*\*\* See Special Condition No. 13

\*Emergency overflow from the Recycle Pond is diverted to Outfall 001.

NPDES Permit No. IL0000108

Effluent Limitations and Monitoring

Outfall(s): 003 Intake Screen Backwash

Approximate Flow: 0.07 MGD

Adequate maintenance of the trash basket is required to prevent the discharge of debris collected on intake screens back to Coffeen Lake.

1. From the effective date of this permit until the expiration date the effluent of the following discharge(s) shall be monitored and limited at all times as follows:

Outfall(s): 008, 009, 010, 011, 012, 013, 014, 015, and 016  
Storm Water Runoff from Rail Spur

PARAMETER	LOAD LIMITS lbs/day		CONCENTRATION LIMITS mg/L		SAMPLE FREQUENCY	SAMPLE TYPE
	30 DAY AVG.	DAILY MAX.	30 DAY AVG.	DAILY MAX.		
Mercury					1/Quarter	Grab
See Special Condition No. 14, 17, and 18						
Outfall(s): 018 Storm Water Runoff Associated with the Ash Landfill						
Flow (MGD)	See Special Condition 1				1/Month	
pH	See Special Condition 2				1/Month	Grab
Iron (total)			Monitoring Only		1/Quarter	8-Hr. Composite
Mercury	See Special Condition 20		Monitoring Only		1/Quarter	Grab
Boron				1.0	1/Month	8-Hr. Composite
Total Suspended Solids			15	30	1/Month	8-Hr. Composite
Sulfate			Monitoring Only		1/Quarter	8-Hr. Composite

NPDES Permit No. IL0000108

Effluent Limitations and Monitoring

1. From the effective date of this permit until the expiration date the effluent of the following discharge(s) shall be monitored and limited at all times as follows:

Outfall(s): 023 East Stormwater from Closed Ash Pond

PARAMETER	LOAD LIMITS lbs/day		CONCENTRATION LIMITS mg/l		SAMPLE FREQUENCY	SAMPLE TYPE
	30 DAY AVG.	DAILY MAX.	30 DAY AVG.	DAILY MAX.		
Flow (MGD)	See Special Condition 1				2/Month	
pH	See Special Condition 2				2/Month	Grab
Mercury			Monitoring Only		1/Quarter	Grab
Boron			Monitoring Only		2/Month	Grab
Iron (Total)			Monitoring Only		2/Month	Grab
Chloride			Monitoring Only		2/Month	Grab
Sulfate			Monitoring Only		2/Month	Grab
Manganese			Monitoring Only		2/Month	Grab

Outfall(s): 024 East Stormwater from Closed Ash Pond

Flow (MGD)	See Special Condition 1				2/Month	
pH	See Special Condition 2				2/Month	Grab
Mercury			Monitoring Only		1/Quarter	Grab
Boron			Monitoring Only		2/Month	Grab
Iron (Total)			Monitoring Only		2/Month	Grab
Chloride			Monitoring Only		2/Month	Grab
Sulfate			Monitoring Only		2/Month	Grab
Manganese			Monitoring Only		2/Month	Grab

NPDES Permit No. IL0000108

Special Conditions

SPECIAL CONDITION 1. Flow shall be reported as monthly average and daily maximum on the DMR form.

SPECIAL CONDITION 2. The pH shall be in the range 6.0 to 9.0. The monthly minimum and monthly maximum values shall be reported on the DMR form.

SPECIAL CONDITION 3. Samples taken in compliance with the effluent monitoring requirements shall be taken at a point representative of the discharge, but prior to entry into the receiving stream. For internal outfalls A01, B01, C01, D01, E01, and G01, samples taken in compliance with effluent monitoring requirements shall be taken at a point representative of the discharge, but prior to entry into the cooling water discharge flume.

SPECIAL CONDITION 4. Total Residual Chlorine limit is an instantaneous maximum limit which shall not be exceeded at any time.

- a. Chlorine may not be discharged from each unit's main cooling condensers for more than two hours in any one day.
- b. A minimum of three grab samples shall be taken at approximately two minute intervals at a point in the discharge flume during the respective chlorination period of each unit allowing for lag time between the initiation of chlorination and the point of sampling before the first grab sample is taken. The individual values of total residual chlorine for each chlorination period sampled shall be reported. The highest individual TRC value for the month should be reported as the maximum value on the Discharge Monitoring Report (DMR). The time and duration of the chlorine dosing period plus the amount of chlorine applied shall be included with the monthly DMR.
- c. Continuous analyzers may be substituted for the above grab sampling method. When continuous analyzers are used, calculations submitted with the Discharge Monitoring Reports (DMRs) will be based on the data collected on the first and third Wednesday of the calendar month. In the event of an analyzer malfunction on the above days, data will be collected on the following Wednesday by either an analyzer or by use of the grab sampling method. Discharge Monitoring and Reporting requirements are specified above.

SPECIAL CONDITION 5. The following specific thermal limitations adopted through IPCB Order 77-158 pursuant to 35 Ill. Adm. Code 02.211(j)(5) shall apply at the edge of the mixing zone for the condenser cooling water discharge. The edge of the mixing zone shall be a maximum area of 26 acres and compliance with the following thermal limitations determined by a fixed temperature recorder set at the edge of the mixing zone below the surface of the water.

1. The thermal discharge to Coffeen Lake from Coffeen Power Station shall not result in a temperature, measured at the outside edge of the mixing zone in Coffeen Lake, which: 1) Exceeds 105°F as a monthly average from June through September, and 112°F as a maximum for more than three percent of the hours during that same period. 2) Exceeds 89°F as a monthly average from October through May, and 94°F as a maximum for more than two percent of the hours during that same period.

The maximum instantaneous temperature recorded during a day shall be reported as the daily maximum temperature on the DMR form. The monthly average temperature shall be reported as the monthly average on the DMR form. The number of hours the temperature exceeds the maximum temperature limitation shall be reported in the comment section of the DMR form.

SPECIAL CONDITION 6. This waste stream shall not alone or in combination with other sources cause a violation of the applicable total dissolved solids water quality standard of 1000 mg/l in Coffeen Lake. Monitoring shall be of a representative lake water sample collected at the Station intake.

SPECIAL CONDITION 7. Any use of chlorine to control slime growths, odors or as an operational control, etc. shall not exceed the limit of 0.05 mg/l (daily maximum) total residual chlorine in the effluent. Sampling is required on a daily grab basis during the chlorination process. Reporting shall be submitted with the (DMR's) on a monthly basis.

SPECIAL CONDITION 8. As part of the review process for this permit, the Agency concluded that adequate mixing exists in compliance with 35 Ill. Adm. Code 302.102 for boron, manganese and total dissolved solids at outfall 002. The extent of the mixing zone for these parameters is a radius of 100 feet from the end of the outfall 002 discharge pipe into Coffeen Lake. The daily maximum limits given for these parameters were established to result in compliance with the water quality standards of 35 Ill. Adm. Code 302 outside of these maximum zones. All parameters known to be present in the effluents at levels above water quality standards are listed above. Other such parameters may be discovered in the future and will be evaluated for mixing according to the Illinois Permitting Guidance for Mixing Zones.

SPECIAL CONDITION 9. In order for the Agency to evaluate the potential impacts of cooling water intake structure operation pursuant to 40 CFR 125.90(b), the permittee shall prepare and submit information to the Agency outlining current intake structure conditions at this facility, including a detailed description of the current intake structure operation and design, description of any operational or structural modifications from original design parameters, source waterbody flow information, or other information as necessary. The information submitted should be in accordance with the previously submitted information collection proposal received by the Agency on January 17, 2006.

NPDES Permit No. IL0000108

Special Conditions

The information shall also include a summary of historical 316(b) related intake impingement and / or entrainment studies, if any, as well as current impingement mortality and/or entrainment characterization data; and shall be submitted to the Agency within six(6) months of the permit's effective date.

Upon the receipt and review of this information, the permit may be modified to require the submittal of additional information based on a Best Professional Judgment review by the Agency. This permit may also be revised or modified in accordance with any laws, regulations, or judicial orders issued pursuant to Section 316(b) of the Clean Water Act.

Ameren Energy Generating Company's (formerly Central Illinois Public Service Company) original demonstration for the Coffeen Power Station in accordance with Section 316(b) of the Clean Water Act, was approved by this Agency by letter dated April 27, 1982.

SPECIAL CONDITION 10. There shall be no discharge of polychlorinated biphenyl compounds (PCBs) such as those commonly used for transformer fluid.

SPECIAL CONDITION 11.

- A. Chemical metal cleaning wastewater may be stored in an on-site tank until placement on an active area of the coal pile. Chemical metal cleaning wastewater may be placed on an active area of the coal pile for evaporation in an operating boiler provided a demonstration showing BAT equivalency is submitted to the IEPA within 90 days following completion of treatment. This demonstration will consist of a sampling program approved by the IEPA which will provide for the monitoring of iron and copper levels in coal pile runoff prior to, during, and after placement of rinses onto the coal pile. This monitoring must show that the naturally occurring iron and copper levels in coal pile runoff are not altered through this disposal practice (Attachment A).
- B. Chemical metal cleaning wastewater may be discharged to the recycle pond following treatment. The following discharge limits and sampling requirements shall apply prior to discharge to the recycle pond:

<u>Parameter</u>	<u>Daily Maximum Limits</u>	<u>Sample Frequency</u>	<u>Sample Type</u>
Iron	1.0 mg/l	1/Day *	Grab
Copper	1.0 mg/l	1/Day *	Grab

\*When discharging. Sample results shall be included on the monthly Discharge Monitoring Report.

SPECIAL CONDITION 12. The Permittee shall record monitoring results on Discharge Monitoring Report (DMR) Forms using one such form for each outfall each month.

In the event that an outfall does not discharge during a monthly reporting period, the DMR Form shall be submitted with no discharge indicated.

The Permittee may choose to submit electronic DMRs (eDMRs) instead of mailing paper DMRs to the IEPA. More information, including registration information for the eDMR program, can be obtained on the IEPA website, <http://www.epa.state.il.us/water/edmr/index.html>.

The completed Discharge Monitoring Report forms shall be submitted to IEPA no later than the 28th day of the following month, unless otherwise specified by the permitting authority.

Permittees not using eDMRs shall mail Discharge Monitoring Reports with an original signature to the IEPA at the following address:

Illinois Environmental Protection Agency  
 Division of Water Pollution Control  
 1021 North Grand Avenue East  
 Post Office Box 19276  
 Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section, Mail Code # 19

SPECIAL CONDITION 13. (Outfall 002) The Agency has determined that the effluent limitations in this permit constitute BAT/BCT for storm water which is treated in the existing treatment facilities for purposes of this permit reissuance, and no pollution prevention plan will be required for such storm water. In addition to the chemical specific monitoring required elsewhere in this permit, the permittee shall conduct an annual inspection of the facility site to identify areas contributing to a storm water discharge associated with industrial activity, and determine whether any facility modifications have occurred which result in previously-treated storm water discharges no longer receiving treatment. If any such discharges are identified the permittee shall request a modification of this permit within 30 days after the inspection. Records of the annual inspection shall be retained by the permittee for the term of this permit and be made available to the Agency on request.

NPDES Permit No. IL0000108

Special ConditionsSPECIAL CONDITION 14.STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

- A. A storm water pollution prevention plan shall be developed by the permittee for the storm water associated with industrial activity at this facility. The plan shall identify potential sources of pollution which may be expected to affect the quality of storm water discharges associated with the industrial activity at the facility. In addition, the plan shall describe and ensure the implementation of practices which are to be used to reduce the pollutants in storm water discharges associated with industrial activity at the facility and to assure compliance with the terms and conditions of this permit.
- B. The plan shall be completed within 180 days of the effective date of this permit. Plans shall provide for compliance with the terms of the plan within 365 days of the effective date of this permit. The owner or operator of the facility shall make a copy of the plan available to the Agency at any reasonable time upon request. [Note: If the plan has already been developed and implemented it shall be maintained in accordance with all requirements of this special condition.]
- C. The permittee may be notified by the Agency at any time that the plan does not meet the requirements of this condition. After such notification, the permittee shall make changes to the plan and shall submit a written certification that the requested changes have been made. Unless otherwise provided, the permittee shall have 30 days after such notification to make the changes.
- D. The discharger shall amend the plan whenever there is a change in construction, operation, or maintenance which may affect the discharge of significant quantities of pollutants to the waters of the State or if a facility inspection required by paragraph G of this condition indicates that an amendment is needed. The plan should also be amended if the discharger is in violation of any conditions of this permit, or has not achieved the general objective of controlling pollutants in storm water discharges. Amendments to the plan shall be made within the shortest reasonable period of time, and shall be provided to the Agency for review upon request.
- E. The plan shall provide a description of potential sources which may be expected to add significant quantities of pollutants to storm water discharges, or which may result in non-storm water discharges from storm water outfalls at the facility. The plan shall include, at a minimum, the following items:
1. A topographic map extending one-quarter mile beyond the property boundaries of the facility, showing: the facility, surface water bodies, wells (including injection wells), seepage pits, infiltration ponds, and the discharge points where the facility=s storm water discharges to a municipal storm drain system or other water body. The requirements of this paragraph may be included on the site map if appropriate.
  2. A site map showing:
    - i. The storm water conveyance and discharge structures;
    - ii. An outline of the storm water drainage areas for each storm water discharge point;
    - iii. Paved areas and buildings;
    - iv. Areas used for outdoor manufacturing, storage, or disposal of significant materials, including activities that generate significant quantities of dust or particulates.
    - v. Location of existing storm water structural control measures (dikes, coverings, detention facilities, etc.);
    - vi. Surface water locations and/or municipal storm drain locations
    - vii. Areas of existing and potential soil erosion;
    - viii. Vehicle service areas;
    - ix. Material loading, unloading, and access areas.
  3. A narrative description of the following:
    - i. The nature of the industrial activities conducted at the site, including a description of significant materials that are treated, stored or disposed of in a manner to allow exposure to storm water;
    - ii. Materials, equipment, and vehicle management practices employed to minimize contact of significant materials with storm water discharges;

NPDES Permit No. IL0000108

Special Conditions

- iii. Existing structural and non-structural control measures to reduce pollutants in storm water discharges;
  - iv. Industrial storm water discharge treatment facilities;
  - v. Methods of onsite storage and disposal of significant materials;
4. A list of the types of pollutants that have a reasonable potential to be present in storm water discharges in significant quantities.
  5. An estimate of the size of the facility in acres or square feet, and the percent of the facility that has impervious areas such as pavement or buildings.
  6. A summary of existing sampling data describing pollutants in storm water discharges.
- F. The plan shall describe the storm water management controls which will be implemented by the facility. The appropriate controls shall reflect identified existing and potential sources of pollutants at the facility. The description of the storm water management controls shall include:
1. Storm Water Pollution Prevention Personnel - Identification by job titles of the individuals who are responsible for developing, implementing, and revising the plan.
  2. Preventive Maintenance - Procedures for inspection and maintenance of storm water conveyance system devices such as oil/water separators, catch basins, etc., and inspection and testing of plant equipment and systems that could fail and result in discharges of pollutants to storm water.
  3. Good Housekeeping - Good housekeeping requires the maintenance of clean, orderly facility areas that discharge storm water. Material handling areas shall be inspected and cleaned to reduce the potential for pollutants to enter the storm water conveyance system.
  4. Spill Prevention and Response - Identification of areas where significant materials can spill into or otherwise enter the storm water conveyance systems and their accompanying drainage points. Specific material handling procedures, storage requirements, spill clean up equipment and procedures should be identified, as appropriate. Internal notification procedures for spills of significant materials should be established.
  5. Storm Water Management Practices - Storm water management practices are practices other than those which control the source of pollutants. They include measures such as installing oil and grit separators, diverting storm water into retention basins, etc. Based on assessment of the potential of various sources to contribute pollutants, measures to remove pollutants from storm water discharge shall be implemented. In developing the plan, the following management practices shall be considered:
    - i. Containment - Storage within berms or other secondary containment devices to prevent leaks and spills from entering storm water runoff;
    - ii. Oil & Grease Separation - Oil/water separators, booms, skimmers or other methods to minimize oil contaminated storm water discharges;
    - iii. Debris & Sediment Control - Screens, booms, sediment ponds or other methods to reduce debris and sediment in storm water discharges;
    - iv. Waste Chemical Disposal - Waste chemicals such as antifreeze, degreasers and used oils shall be recycled or disposed of in an approved manner and in a way which prevents them from entering storm water discharges.
    - v. Storm Water Diversion - Storm water diversion away from materials manufacturing, storage and other areas of potential storm water contamination;
    - vi. Covered Storage or Manufacturing Areas - Covered fueling operations, materials manufacturing and storage areas to prevent contact with storm water.
  6. Sediment and Erosion Prevention - The plan shall identify areas which due to topography, activities, or other factors, have a high potential for significant soil erosion and describe measures to limit erosion.

NPDES Permit No. IL0000108

Special Conditions

7. Employee Training - Employee training programs shall inform personnel at all levels of responsibility of the components and goals of the storm water pollution control plan. Training should address topics such as spill response, good housekeeping and material management practices. The plan shall identify periodic dates for such training.
8. Inspection Procedures - Qualified plant personnel shall be identified to inspect designated equipment and plant areas. A tracking or follow-up procedure shall be used to ensure appropriate response has been taken in response to an inspection. Inspections and maintenance activities shall be documented and recorded.
- G. The permittee shall conduct an annual facility inspection to verify that all elements of the plan, including the site map, potential pollutant sources, and structural and non-structural controls to reduce pollutants in industrial storm water discharges are accurate. Observations that require a response and the appropriate response to the observation shall be retained as part of the plan. Records documenting significant observations made during the site inspection shall be submitted to the Agency in accordance with the reporting requirements of this permit.
- H. This plan should briefly describe the appropriate elements of other program requirements, including Spill Prevention Control and Countermeasures (SPCC) plans required under Section 311 of the CWA and the regulations promulgated thereunder, and Best Management Programs under 40 CFR 125.100.
- I. The plan is considered a report that shall be available to the public under Section 308(b) of the CWA. The permittee may claim portions of the plan as confidential business information, including any portion describing facility security measures.
- J. The plan shall include the signature and title of the person responsible for preparation of the plan and include the date of initial preparation and each amendment thereto.

Construction Authorization

- K. Authorization is hereby granted to construct treatment works and related equipment that may be required by the Storm Water Pollution Prevention developed pursuant to this permit.

This Authorization is issued subject to the following condition(s).

1. If any statement or representation is found to be incorrect, this authorization may be revoked and the permittee there upon waives all rights thereunder.
2. The issuance of this authorization (a) does not release the permittee from any liability for damage to persons or property caused by or resulting from the installation, maintenance or operation of the proposed facilities; (b) does not take into consideration the structural stability of any units or part of this project; and (c) does not release the permittee from compliance with other applicable statutes of the State of Illinois, or other applicable local law, regulations or ordinances.
3. Plans and specifications of all treatment equipment being included as part of the stormwater management practice shall be included in the SWPPP.
4. Construction activities which result from treatment equipment installation, including clearing, grading and excavation activities which result in the disturbance of one or more acres of land area, are not covered by this authorization. The permittee shall contact the IEPA regarding the required permit(s).

REPORTING

- L. The facility shall submit an annual inspection report to the Illinois Environmental Protection Agency. The report shall include results of the annual facility inspection which is required by Part G of the Storm Water Pollution Prevention Plan of this permit. The report shall also include documentation of any event (spill, treatment unit malfunction, etc.) Which would require an inspection, results of the inspection, and any subsequent corrective maintenance activity. The report shall be completed and signed by the authorized facility employee(s) who conducted the inspection(s).
- M. The first report shall contain information gathered during the one year time period beginning with the effective date of coverage under this permit and shall be submitted no later than 60 days after this one year period has expired. Each subsequent report shall contain the previous years information and shall be submitted no later than one year after the previous years report was due.
- N. Annual inspection reports shall be mailed to the following address:

NPDES Permit No. IL0000108

Special Conditions

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

- O. If the facility performs inspections more frequently than required by this permit, the results shall be included as additional information in the annual report.

SPECIAL CONDITION 15. If an applicable effluent standard or limitation is promulgated under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a)(2) of the Clean Water Act and that effluent standard or limitation is more stringent than any effluent limitation in the permit or controls a pollutant not limited in the NPDES Permit, the Agency shall revise or modify the permit in accordance with the more stringent standard or prohibition and shall so notify the permittee.

SPECIAL CONDITION 16. The permittee shall monitor the discharge from outfall E01 for zinc once per month by eight hour composite sample. Monitoring results shall be reported on the DMR form. The IEPA may modify this permit during its term to incorporate additional limitations or requirements based on the results of this monitoring. Modifications under this condition shall follow public notice and opportunity for hearing.

SPECIAL CONDITION 17. The discharge from outfalls 008, 009, 010 and 012 shall be monitored for boron, manganese, total dissolved solids and sulfate during qualifying storm events. The outfalls shall be monitored semiannually, in the spring and fall quarters, and at additional times as necessary to ensure that two qualifying storm events are sampled per year at each outfall. A qualifying storm event is defined as an event that is greater than 0.1 inches and at least 72 hours from the previously measurable (greater than 0.1 inch rainfall) storm event.

A grab sample shall be taken during the first thirty minutes of the discharge (or as soon thereafter as practicable), and a flow weighted composite shall be taken for the entire event or for the first three hours of the event.

Grab and composite samples are defined as follows:

Grab sample: An individual sample of at least 100 milliliters collected during the first thirty minutes (or as soon thereafter as practicable) of the discharge. This sample is to be analyzed separately from the composite sample.

Flow-Weighted Composite sample: A flow-weighted composite sample may be taken with a continuous sampler that proportions the amount of sample collected with the flow rate or as a combination of a minimum of three sample aliquots taken in each hour of discharge for the entire event or for the first three hours of the event, with each aliquot being at least 100 milliliters and collected with a minimum period of fifteen minutes between aliquot collections. The composite must be flow proportional; either the time interval between each aliquot or the volume of each aliquot must be proportional to either the stream flow at the time of sampling or the total stream flow since the collection of the previous aliquot. Aliquots may be collected manually or automatically.

Pollutants shall be analyzed using test methods promulgated in 40 CFR 136. For each qualifying event, permittee shall record flow measurements or estimates of flow rate, the total amount of discharge for the storm event sampled, and the method of flow measurement or estimation. Permittee shall also record the duration of storm event sampled, rainfall measurements, or estimates of the storm event which generated the sampled runoff and the duration between the storm event sampled and the end of the previously measurable (greater than 0.1 inch rainfall) storm event.

Monitoring results and all other information required by this condition shall be submitted upon your receipt as an attachment to the DMR form.

The IEPA may modify this permit during its term to incorporate additional limitations or requirements based on the results of this monitoring. Modifications under this condition shall follow public notice and opportunity for hearing.

SPECIAL CONDITION 18. Based on monitoring results submitted to the IEPA for outfalls 008-010 and 012 the permittee shall modify its existing Storm Water Pollution Prevention Plan to reduce the amount of pollutants discharged to Coffeen Lake. At a minimum, the permittee shall increase the frequency of coal removal activities along the rail spur.

Amendments to the Storm Water Pollution Prevention Plan shall be made within the shortest reasonable period of time, and shall be provided to the IEPA for review upon request.

NPDES Permit No. IL0000108

Special Conditions

SPECIAL CONDITION 19. The discharge of a reportable quantity is not subject to the reporting requirements of Section 311 of the Clean Water Act, if such a discharge is in compliance with this permit and such activity was reviewed and made part of the public record in accordance with the issuance of this permit. The permittee is exempt from Section 311 reporting for discharges meeting the terms and conditions as found at 40 CFR 117.12.

SPECIAL CONDITION 20. Outfall 002, 018, 023, and 024 shall be monitored for mercury on a quarterly basis until twelve samples have been collected. After collection of all required samples, and upon written notification to the Agency the sampling may cease, unless the Agency modifies the permit to require continued sampling at some frequency. Samples must be analyzed by EPA Method 1631E using the digestion procedure described in Section 11.1.1.2 of 1631E, which dictates that samples must be heated at 50°C for 6 hours in a bromine chloride (BrCl) solution in closed vessels.

SPECIAL CONDITION 21. The usage of GE Spectrus CT1300 shall be conducted in accordance with US EPA recommendations. Products equivalent to Spectrus CT1300 may be substituted upon notification of the Agency. The methyl orange analytical method for surfactant shall be used to document that no detectable residual n-alkyl dimethyl benzyl ammonia chloride (ADBAC) exists after detoxification. Measurement shall be required at 8-hour intervals and analysis conducted immediately after collection of a grab sample.

SPECIAL CONDITION 22.

## \*\*\*\*\*CONSTRUCTION AUTHORIZATION\*\*\*\*\*

Authorization is hereby granted to construct temporary supplemental cooling towers and related equipment on an as needed basis to ensure compliance with temperature limitations at Outfall, 001, 020, 021, and 022. These supplemental cooling towers would draw a portion of the flow pass it through the supplemental towers, and return it.

This Authorization is issued subject to the following conditions.

1. If any statement or representation is found to be incorrect, this authorization may be revoked and the permittee thereupon waives all rights thereunder.
2. The issuance of this authorization (a) does not release the permittee from any liability for damage to persons or property caused by or resulting from the installation, maintenance or operation of the proposed facilities; (b) does not take into consideration the structural stability of any units or part of this project; and (c) does not release the permittee from compliance with other applicable statutes of the State of Illinois, or other applicable local law, regulations or ordinances.
3. The permittee shall notify the Agency in writing prior to placing the temporary supplemental cooling towers in service. Notification shall also be given upon taking the towers out of service.
4. The discharge of stormwater runoff associated with construction activities related to cooling tower installation, including clearing, grading and excavation activities which result in the disturbance of one acre or more of total land acre, are not covered by this permit or authorization. Prior to commencing construction, the permittee shall apply for and obtain coverage under the General NPDES Stormwater Permit for Construction Site Activities.

SPECIAL CONDITION 23. Permitted discharges that will not have any monitoring requirements include No. F01 maintenance shop oil/water separator discharge which will require best management practice (BMP) maintenance schedule.

NPDES Permit No. IL0000108

Attachment A

The Permittee shall monitor coal pile runoff for concentrations of copper (total) and iron (total) a minimum of 4 times prior to placing chemical metal cleaning wastewater rinses on the coal pile. The Permittee shall monitor the coal pile for coal pile runoff following the placement of chemical metal cleaning wastewater rinses on the coal pile. Upon placement of the wastewater rinses on the coal pile, for each placement which causes an effluent from the coal pile and each rainfall event which produces coal pile runoff during 30 days following placement on the coal pile, a representative grab sample shall be taken daily of the discharge and analyzed for iron (total) and copper (total). The analysis report shall include the frequency, duration and amounts of the month's precipitation events.

If the Permittee after monitoring twice the above practice for incineration of chemical metal cleaning wastewater rinses can demonstrate to the satisfaction of the permitting authority that there is no significant discharge of the designated parameters caused by this practice, upon written request by the Permittee, the permitting authority shall review the monitoring requirements and may, at their discretion revise or waive these monitoring requirements following Public Notice and opportunity for hearing.

