

NPDES Permit No. IL0024767
Notice No. SMT:06121201.dlk

Public Notice Beginning Date: **December 20, 2011**

Public Notice Ending Date: **January 19, 2012**

National Pollutant Discharge Elimination System (NPDES)
Permit Program

Draft Reissued 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:

City of Springfield
Office of Public Utilities
City Water, Light and Power
Environmental Affairs
7th and Monroe Street
Springfield, Illinois 62757

Name and Address of Facility:

City Water, Light and Power
3100 Stevenson Drive
Springfield, Illinois 62707
(Sangamon 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 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. 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 is engaged in the operation of a steam electric generating station (SIC 4911). Plant operation results in an intermittent discharge of Lakeside Condenser Cooling Water from outfall 001 which discharges to Lake Springfield, an average discharge of 0.0002 MGD of Miscellaneous Equipment Drains - Groundwater Seepage from outfall B01, an average discharge of 201.6 MGD of Dallman 1 and 2 Condenser Cooling Water from outfall 002 which discharges to Lake Springfield, an intermittent discharge of Lakeside Storm Sewer from outfall 003 which discharges to Sugar Creek, an average discharge of 2.797 MGD of Ash Pond Discharge from outfall 004 and discharges to Sugar Creek, an average discharge of 3.883 MGD of Wastewater Treatment Plant Effluent from outfall 005, an average discharge of 10.0 MGD of Ash Pond Discharge from outfall 006, an intermittent discharge flow rate of Dallman Coal Runoff from outfall 007, an intermittent discharge of Stormwater from outfall 008, an average discharge of 187.1 MGD of Dallman 3 Condenser Cooling Water Outfall from outfall 009, an average discharge of 0.144 MGD of Dallman Plant Intake Screen Backwash from outfall 010, an average discharge of 0.025 MGD of Stormwater Runoff - West Drainage Ditch and Dallman Fuel Oil Unloading Pad from outfall 012, an average discharge of 0.049 MGD of Stormwater Runoff - East Ditch from outfall 013, an average discharge of 0.002 MGD of Stormwater Runoff - Crusher House from outfall 015 which all discharge to Lake Springfield, an average discharge of 0.014 MGD of Stormwater Runoff - Landfill from outfall 016 which discharges to Sugar Creek, and an average discharge of 30 gpm of high service pump station emergency overflow from outfall 017 which discharges to Sugar Creek.

Application is made for the existing discharges which are located in Sangamon 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	Lake Springfield	39° 45' 24" North	89° 35' 56" West	General Use	Not Rated
B01	Lake Springfield	39° 45' 17" North	89° 35' 56" West	General Use	Not Rated
002	Lake Springfield	39° 45' 13" North	89° 36' 13" West	General Use	Not Rated
003	Sugar Creek	39° 45' 45" North	89° 35' 58" West	General Use	C
004	Sugar Creek	39° 46' 02" North	89° 36' 06" West	General Use	C
005	Lake Springfield	39° 45' 23" North	89° 35' 56" West	General Use	Not Rated
006	Lake Springfield	39° 45' 34" North	89° 35' 54" West	General Use	Not Rated
007	Lake Springfield	39° 45' 10" North	89° 36' 07" West	General Use	Not Rated
008	Lake Springfield	39° 45' 23" North	89° 35' 56" West	General Use	Not Rated
009	Lake Springfield	39° 45' 13" North	89° 36' 14" West	General Use	Not Rated
010	Lake Springfield	39° 45' 17" North	89° 35' 45" West	General Use	Not Rated
012	Lake Springfield	39° 45' 13" North	89° 36' 13" West	General Use	Not Rated
013	Lake Springfield	39° 45' 23" North	89° 35' 56" West	General Use	Not Rated
015	Lake Springfield	39° 45' 18" North	89° 36' 19" West	General Use	Not Rated
016	Sugar Creek	39° 45' 55" North	89° 35' 47" West	General Use	C
017	Sugar Creek	39° 45' 23" North	89° 36' 07" West	General Use	C

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

The water body (Lake Springfield) receiving the discharge from outfalls 001, B01, 002, 005-010, 012, 013 and 015 are on the 303(d) list of impaired waters. The following parameters have been identified as the pollutants causing impairment:

Pollutants	Potential Contributors
Total Suspended Solids Total Phosphorus Aquatic Algae	Littoral Area Modifications Other recreational Pollution Sources Crop Production Runoff from Forest/Grassland/Parkland and Municipal Point Sources

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

The stream segment (Sugar Creek) receiving the discharge from outfalls 003, 004, 016, and 017 are on the 303(d) list of impaired waters. The following parameters have been identified as the pollutants causing impairment:

Pollutants	Potential Contributors
Boron Dissolved Oxygen Total Suspended Solids Total Phosphorus	Industrial Point Source discharge Combine Sewer Overflows Upstream Impoundment Urban Runoff/Storm Sewers

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

Outfall: 001 Lakeside Condenser Cooling Water Outfall (DAF = Intermittent Discharge)

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		REGULATION	CONCENTRATION LIMITS mg/l		REGULATION
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM	
Lakeside 2 Turbine Rooms 4, 5, and 6 Floor Drains Lakeside 2 Turbine Rooms 4, 5, and 6 Roof Drains Lakeside 2 Boiler Rooms 5, 6, and 7 Floor Lakeside 2 Boiler Rooms 5, 6, and 7 Roof Drains Lakeside 1 and 2 Equipment Drains						
Total Suspended Solids				15	30	35 IAC 304.124
Oil & Grease				15	20	40 CFR 423.12

Outfall: B01 Miscellaneous Equipment Drains - Below Ground Seepage Water (DAF = 0.0002 MGD)

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		REGULATION	CONCENTRATION LIMITS mg/l		REGULATION
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM	
pH	6.0 - 9.0 standard units					35 IAC 304.125
Total Suspended Solids				15	30	35 IAC 304.124
Oil & Grease				15	20	40 CFR 423.12

Outfall: 002 Dallman 1 and 2 Condenser Cooling Water Outfall (DAF = 201.6 MGD)

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		REGULATION	CONCENTRATION LIMITS mg/l		REGULATION
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM	
Dallman 1 and 2 Condenser Cooling Water Dallman Ash Pond Sluice Water						
Temperature						IPCB 78-52
Total Residual Chlorine					0.05	40 CFR 125.3
Boron					Monitor Only	35 IAC 309.146

Outfall: 003 Lakeside Storm Sewer (DAF = Intermittent Discharge)

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		REGULATION	CONCENTRATION LIMITS mg/l		REGULATION
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM	
Lakeside 1 Turbine Rooms 1, 2, and 3 Roof Drains						
Lakeside 1 Boiler Rooms 2, 3, and 4 Floor Drains						
Lakeside 2 Turbine Rooms 2, 3, and 4 Roof Drains						
Lakeside 2 Boilers 7, and 8 Roof Drains						
Screen Washings from Public Water Supply Intake						
Public Water Supply Drain						
Parking Lot Runoff						
Dam Gate Vault Drains						
Dam Gate Isolation Drains						
High Service Pump Station and Low Service Pump Station Parking Area Drains						
Low Service Pump Station Roof Drains						
Low Service Pump Station Yard Drains						
Low Service Pump Station Emergency Overflow (Lake Water)						
pH	6.0 - 9.0 standard units					35 IAC 304.125
Total Suspended Solids				15	30	35 IAC 304.124
Oil and Grease				15	20	40 CFR 423.12
Boron					11	IPCB AS 94-9
Iron (Total)					Monitor Only	35 IAC 309.146

Outfall: 004 Ash Pond Discharge to Sugar Creek (DAF = 2.797 MGD)

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		REGULATION	CONCENTRATION LIMITS mg/l		REGULATION
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM	
Dallman Plant Fly Ash and Bottom Ash Lime Sludge from the City Water Purification Plant Industrial Wastewater Treatment Plant Sludge Water Water Treatment Plant Yard Drains Flue Gas Desulfurization System Wastes Scrubber Sludge Disposal Site Wastewater						
pH	6.0 - 9.0 standard units					35 IAC 304.125
Total Suspended Solids				15	30	35 IAC 304.124
Oil and Grease				15	20	40 CFR 423.12
Boron					11	IPCB AS 94-9
Mercury					Monitor Only	35 IAC 309.146
Ammonia					Monitor Only	35 IAC 309.146

Outfall: 005 Industrial Wastewater Treatment Plant Outfall (DAF = 3.883 MGD)

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		REGULATION	CONCENTRATION LIMITS mg/l		REGULATION
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM	
Demineralizer Regenerant Wastes Lakeside 2 Boiler Rooms 7, and 8 Floor Lakeside 2 Turbine Rooms 6, and 7 Floor Drains Dallman 1, 2, and 3 Boiler Blowdown, and Deaerator Blowdown Dallman 1, 2, and 3 Roof and Floor Dallman 1, 2, and 3 Slag Tank Overflow Dallman 1, 2, and 3 Sump Pumps Crusher House and Control House Floor Drains Flue Gas Desulfurization System Wastes Dallman Coal Pile Runoff Dallman 1 and 2 Precipitator Area Drain Non-Chemical Metal Cleaning Wastes Dallman 1, 2 and 3 Equipment Drains Lakeside Stormwater Pond Dallman Fuel Oil Tank Berm Runoff Lakeside 2 Turbine Rooms 4, 5, and 6 Floor Drains Lakeside 2 Turbine Rooms 4, 5, 6, and 7 Roof Drains Lakeside 2 Boiler Rooms 5, 6, and 7 Floor Lakeside 2 Boiler Rooms 5, 6, and 7 Roof Lakeside 1 and 2 Equipment Drains Yard Drains Dallman 4 Oil/Water Separator Dallman 4 Reverse Osmosis Reject Dallman 4 Cooling Tower Blowdown Dallman 4 Submerged Scraper Conveyor Slurry Holding Tank						
pH	6.0 - 9.0 standard units					35 IAC 304.125
Total Suspended Solids				15	30	35 IAC 304.124
Oil and Grease				15	20	40 CFR 423.12
Iron (Total)				2.0	4.0	35 IAC 304.124
Copper (Total)				0.026	0.042	35 IAC 302.208
Mercury					Monitor Only	35 IAC 309.146

Outfall: 006 Ash Pond Discharge to Lake Springfield (DAF = 10 MGD)

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		REGULATION	CONCENTRATION LIMITS mg/l		REGULATION
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM	
pH	6.0 - 9.0 standard units					35 IAC 304.125
Total Suspended Solids				15	30	35 IAC 304.204
Oil and Grease				15	20	40 CFR 423.12
Mercury					Monitor Only	35 IAC 309.146

Outfall: 007 Dallman Coal Pile Runoff (Intermittent Discharge)

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		REGULATION	CONCENTRATION LIMITS mg/l		REGULATION
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM	
Dallman Coal Pile Runoff Dallman 1 and 2 Precipitator Area Drain Dust Suppression System Storm Water from Transfer Tower Sump, Reclaim Pit Sump, and Circulating Water Building from Unit 4						
pH	6.0 - 9.0 standard units					35 IAC 304.125
Total Suspended Solids				15	30	35 IAC 304.124
Oil and Grease				15	20	40 CFR 423.12
Iron (Total)				2.0	4.0	35 IAC 304.124
Mercury					Monitor Only	35 IAC 309.146

Outfall: 008 Stormwater (DAF = Intermittent Discharge)

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		REGULATION	CONCENTRATION LIMITS mg/l		REGULATION
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM	
Lakeside Plant Precipitator Area Runoff Parking Lot Runoff Lakeside 2 Turbine Rooms 4, 5, 6, and 7 Roof Drains Lakeside 2 Boiler Rooms 5, 6, and 7 Roof Drains						
pH	6.0 - 9.0 standard units					35 IAC 304.125
Total Suspended Solids				15	30	35 IAC 304.124
Oil and Grease				15	20	40 CFR 423.12
Iron (Total)				2.0	4.0	35 IAC 304.124
Mercury					Monitor Only	35 IAC 309.146

Outfall: 009 Dallman 3 Condenser Cooling Water Outfall (DAF = 187.1 MGD)

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		REGULATION	CONCENTRATION LIMITS mg/l		REGULATION
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM	
Dallman 3 Condenser Cooling Water Dallman Ash Pond Sluice Water						
Temperature						IPCB 78-52
Total Residual Chlorine					0.05	40 CFR 125.3
Boron					Monitor Only	35 IAC 309.146

Outfall: 010 Dallman Plant Intake Screen Backwash (DAF = 0.144 MGD)

Outfall: 012 Stormwater Runoff from West Drainage Ditch and Dallman Fuel Oil Unloading Pad (DAF = 0.025 MGD)

Outfall: 013 Stormwater Runoff from East Drainage Ditch (DAF = 0.049 MGD)

Outfall: 015 Stormwater Runoff from Coal Crusher House Manholes (DAF = 0.002 MGD)

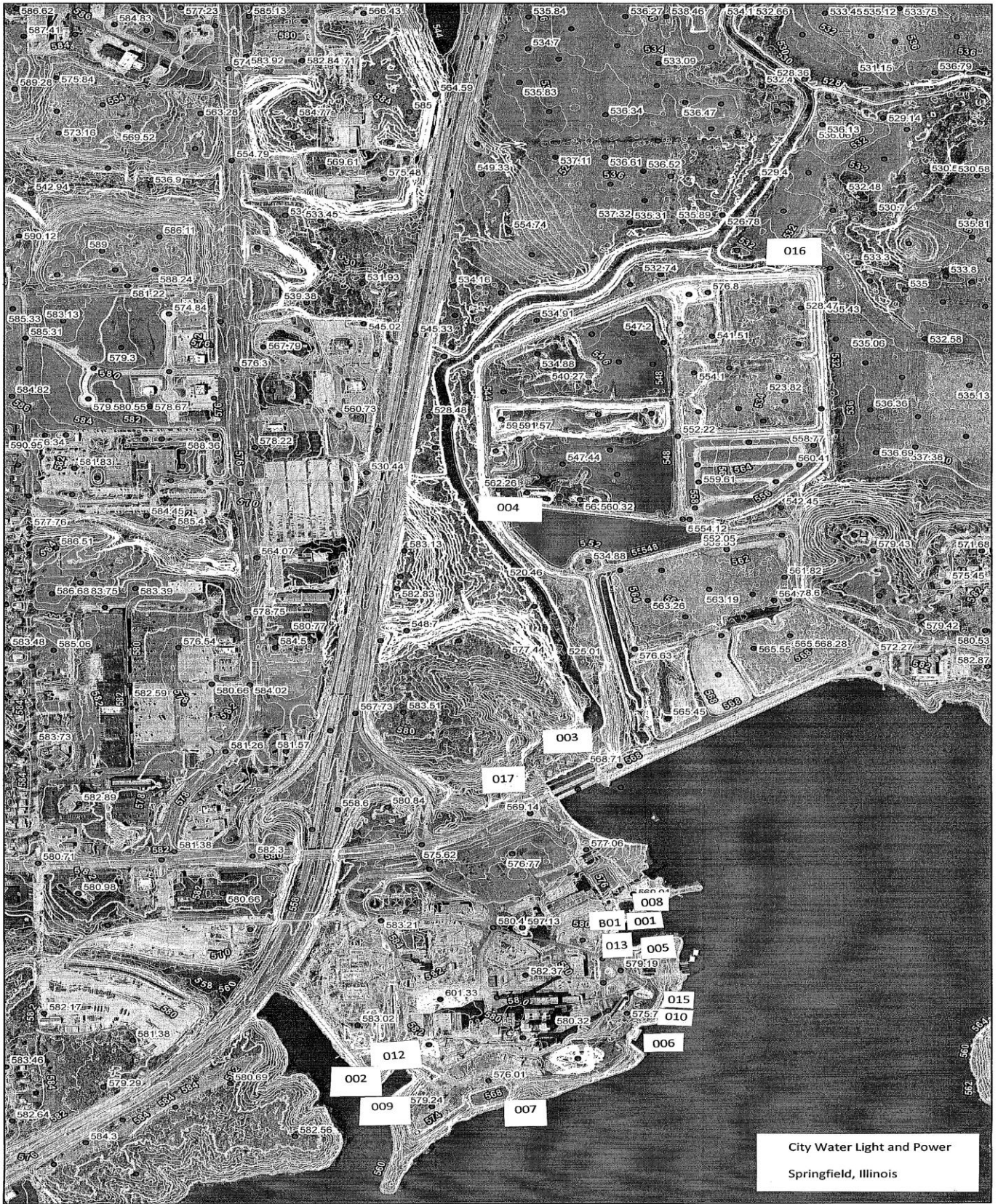
Outfall: 016 Stormwater Runoff from Landfill (DAF = 0.014 MGD)

Outfall: 017 High Service Pump Station Emergency Overflow (DAF = 30 gpm)

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		REGULATION	CONCENTRATION LIMITS mg/l		REGULATION
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM	
Clearwells 1, 2, and 3 Footing Drains High Service Pump Station Footing Drains High Service Pump Station Emergency Overflow						
pH	6.0 - 9.0 standard units					35 IAC 304.125
Total Residual Chlorine					0.05	40 CFR 125.3

The following explain the conditions of the proposed permit:

Special Conditions basically include the descriptions of flow reporting requirements, and the range of pH should reports in DMR. It requires the temperature limitations and the monthly DMR submission. A special condition will specify non-contact cooling water and re-opener requirements. No hazardous quantity of oil may be discharged. The permittee should comply with all provisions of adjusted standard AS 94-9 dated December 1, 1994.



Orthoimagery and elevation data collected April, 2007

0 0.125 0.25 0.5 Miles



NPDES Permit No. IL0024767

Illinois Environmental Protection Agency

Division of Water Pollution Control

1021 North Grand Avenue East

P.O. Box 19276

Springfield, Illinois 62794-9276

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

Reissued (NPDES) Permit

Expiration Date:

Issue Date:

Effective Date:

Name and Address of Discharger:

Name and Address of Facility:

City of Springfield
Office of Public Utilities
City Water, Light and Power
Environmental Affairs
7th and Monroe Street
Springfield, Illinois 62757

City Water, Light and Power
3100 Stevenson Drive
Springfield, Illinois 62707
(Sangamon County)

Discharge Number and Name:

Receiving Waters

001	Condenser and Miscellaneous Cooling Waters	Lake Springfield
B01	Miscellaneous Equipment Drains – Groundwater Seepage	Lake Springfield
002	Dallman 1 and 2 Condenser Cooling Water Outfall	Lake Springfield
003	Lakeside Storm Sewer	Sugar Creek
004	Ash Pond Discharge	Sugar Creek
005	Industrial Wastewater Treatment Plant	Lake Springfield
006	Ash Pond Discharge	Lake Springfield
007	Dallman Coal Pile Runoff	Lake Springfield
008	Stormwater	Lake Springfield
009	Dallman 3 Condenser Cooling Water Outfall	Lake Springfield
010	Dallman Plant Intake Screen Backwash	Lake Springfield
012	Stormwater Runoff from West Drainage Ditch and Dallman Fuel Oil Unloading Pad	Lake Springfield
013	Stormwater Runoff from East Drainage Ditch	Lake Springfield
015	Stormwater Runoff from Coal Crusher House Manholes	Lake Springfield
016	Stormwater Runoff from Landfill	Sugar Creek
017	High Service Pump Station Emergency Overflow	Sugar Creek

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:06121201.DLK

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:

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		CONCENTRATION LIMITS mg/l		SAMPLE FREQUENCY	SAMPLE TYPE
	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM		
Outfall: 001 Lakeside Condenser Cooling Water Outfall (DAF = Intermittent Discharge)						
Lakeside 2 Turbine Rooms 4, 5, and 6 Floor Drains Lakeside 2 Turbine Rooms 4, 5, and 6 Roof Drains Lakeside 2 Boiler Rooms 5, 6, and 7 Floor Lakeside 2 Boiler Rooms 5, 6, and 7 Roof Drains Lakeside 1 and 2 Equipment Drains						
Flow	See Special Condition 1				Daily	Continuous
Total Suspended Solids			15	30	2/Month	Grab
Oil and Grease			15	20	2/Month	Grab
Outfall: B01 Miscellaneous Equipment Drains - Groundwater Seepage (DAF = 0.0002 MGD)						
Flow	See Special Condition 1				1/Week	Single Reading Estimate
pH	See Special Condition 2				2/Month	Grab
Total Suspended Solids			15	30	2/Month	Grab
Oil and Grease			15	20	2/Month	Grab
Outfall: 002 Dallman 1 and 2 Condenser Cooling Water Outfall (DAF = 201.6 MGD)						
Dallman 1 and 2 Condenser Cooling Water Dallman Ash Pond Sluice Water						
Flow	See Special Condition 1				Daily	Continuous
Temperature	See Special Condition 4				Daily	Continuous
Total Residual Chlorine	See Special Condition 5				2/Month	Grab
Boron*				0.05	2/Month	Grab

*Boron shall be monitored on a twice per month basis when Dallman Ash Pond Sluice Water is part of the discharge, and Special Condition 19.

Effluent Limitations and Monitoring

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PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		CONCENTRATION LIMITS mg/l		SAMPLE FREQUENCY	SAMPLE TYPE
	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM		
Outfall: 003 Lakeside Storm Sewer (Intermittent Discharge)						
Lakeside 1 Turbine Rooms 1, 2, and 3 Roof Drains Lakeside 1 Boiler Rooms 2, 3, and 4 Floor Drains Lakeside 2 Turbine Rooms 2, 3, and 4 Roof Drains Lakeside 2 Boilers 7, and 8 Roof Drains Screen Washings from Public Water Supply Intake Public Water Supply Drain Parking Lot Runoff Dam Gate Vault Drains Dam Gate Isolation Drains High Service Pump Station and Low Service Pump Station Parking Area Drains Low Service Pump Station Roof Drains Low Service Pump Station Yard Drains Low Service Pump Station Emergency Overflow (Lake Water)						
Flow	See Special Condition 1				1/Week	Single Reading Estimate
pH	See Special Condition 2				1/Week	Grab
Total Suspended Solids			15	30	1/Week	24 Hour Composite
Oil and Grease	See Special Condition 22		15	20	2/Month	Grab
Boron	See Special Condition 14			11	2/Month	Grab
Iron (Total)	See Special Condition 18				2/Year	Grab

Effluent Limitations and Monitoring

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PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		CONCENTRATION LIMITS mg/l		SAMPLE FREQUENCY	SAMPLE TYPE
	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM		
Outfall: 004 Ash Pond Discharge to Sugar Creek (DAF = 2.797 MGD)*						
Dallman Plant Fly Ash and Bottom Ash Lime Sludge from the City Water Purification Plant Industrial Wastewater Treatment Plant Sludge Water Water Treatment Plant Yard Drains Flue Gas Desulfurization System Wastes Scrubber Sludge Disposal Site Wastewater						
Flow	See Special Condition 1				1/Week	Single Reading Estimate
pH	See Special Condition 2				2/Week	Grab
Total Suspended Solids			15	30	2/Week	24 Hour Composite
Oil and Grease	See Special Condition 22		15	20	2/Month	Grab
Boron	See Special Condition 14			11	2/Month	Grab
Mercury	See Special Condition 25				1/Quarter	Grab
Ammonia					1/Week	24 Hour Composite

*See Special Condition 17

**This wastestream may be directed to the Industrial Wastewater Treatment System

Effluent Limitations and Monitoring

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PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		CONCENTRATION LIMITS mg/l		SAMPLE FREQUENCY	SAMPLE TYPE
	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM		
Outfall: 005 Industrial Wastewater Treatment Plant Outfall (DAF = 3.883 MGD)*						
Demineralizer Regenerant Wastes Lakeside 2 Boiler Rooms 7, and 8 Floor Lakeside 2 Turbine Rooms 6, and 7 Floor Drains Dallman 1, 2, and 3 Boiler Blowdown, and Deaerator Blowdown Dallman 1, 2, and 3 Roof and Floor Dallman 1, 2, and 3 Slag Tank Overflow Dallman 1, 2, and 3 Sump Pumps Crusher House and Control House Floor Drains Flue Gas Desulfurization System Wastes Dallman Coal Pile Runoff Dallman 1 and 2 Precipitator Area Drain Non-Chemical Metal Cleaning Wastes Dallman 1, 2 and 3 Equipment Drains Lakeside Stormwater Pond Dallman Fuel Oil Tank Berm Runoff Lakeside 2 Turbine Rooms 4, 5, and 6 Floor Drains Lakeside 2 Turbine Rooms 4, 5, 6, and 7 Roof Drains Lakeside 2 Boiler Rooms 5, 6, and 7 Floor Lakeside 2 Boiler Rooms 5, 6, and 7 Roof Lakeside 1 and 2 Equipment Drains Yard Drains Dallman 4 Oil/Water Separator Dallman 4 Reverse Osmosis Reject Dallman 4 Cooling Tower Blowdown Dallman 4 Submerged Scraper Conveyor Slurry Holding Tank						
Flow	See Special Condition 1				Daily	Continuous
pH	See Special Condition 2				Daily	Grab
Total Suspended Solids			15	30	1/Week	24 Hour Composite
Oil and Grease	See Special Condition 22		15	20	2/Month	Grab
Iron (Total)	See Special Condition 22		2.0	4.0	1/Week	24 Hour Composite
Copper (Total)			0.026	0.042	1/Week	24 Hour Composite
Mercury	See Special Condition 25				1/Quarter	Grab
Total Residual Chlorine	See Special Condition 5			0.05	2/Month	Grab

*See Special Condition 17

**Discharge to the Industrial Wastewater Treatment Plant is an alternate routing

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:

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		CONCENTRATION LIMITS mg/l		SAMPLE FREQUENCY	SAMPLE TYPE
	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM		
Outfall: 006 Ash Pond Discharge to Lake Springfield (DAF = 10 MGD)*						
Flow	See Special Condition 1				1/Week	24 Hour Total
pH	See Special Condition 2				2/Week**	Grab
Total Suspended Solids			15	30	2/Week**	Grab
Oil and Grease			15	20	2/Month	Grab
Mercury	See Special Condition 25				1/Quarter	Grab

*See Special Conditions 17, 20, and 21

**Monitor if discharge occurs during the month excluding exercising diversion pump

Outfall: 007 Dallman Coal Pile Runoff (Intermittent Discharge)*						
Dallman Coal Pile Runoff Dallman 1 and 2 precipitator Area Drain Dust Suppression System Storm Water from Transfer Tower Sump, Reclaim Pit Sump, and Circulating Water Building from Unit 4						
Flow	See Special Condition 1				1/Week	Single Reading Estimate
pH	See Special Condition 2				1/Week	Grab
Total Suspended Solids			15	30	1/Week	8 Hour Composite
Oil and Grease			15	20	1/Week	Grab
Iron (Total)			2	4	1/Week	8 Hour Composite
Mercury	See Special Condition 25				1/Quarter	Grab

*See Special Condition 17

Effluent Limitations and Monitoring

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PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		CONCENTRATION LIMITS mg/l		SAMPLE FREQUENCY	SAMPLE TYPE
	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM		
Outfall: 008 Stormwater (DAF = Intermittent Discharge)*						
Lakeside Plant Precipitator Area Runoff Parking Lot Runoff Lakeside 2 Turbine Rooms 4, 5, 6, and 7 Roof Drains Lakeside 2 Boiler Rooms 5, 6, and 7 Roof Drains						
Flow	See Special Condition 1				1/Week	Single Reading Estimate
pH	See Special Condition 2				1/Week	Grab
Total Suspended Solids			15	30	1/Week	8 Hour Composite
Oil and Grease			15	20	1/Week	Grab
Iron (Total)			2	4	1/Week	8 Hour Composite
Mercury	See Special Condition 25				1/Quarter	Grab

*See Special Condition 17

Outfall: 009 Dallman 3 Condenser Cooling Water (DAF = 187.1 MGD)						
Dallman 3 Condenser Cooling Water Dallman Ash Pond Sluice Water						
Flow	See Special Condition 1				Daily	Continuous
Temperature	See Special Condition 4				Daily	Continuous
Total Residual Chlorine				0.05	2/Month*	Grab**
Oil and Grease			15	20	2/Month*	Grab**
Boron	See Special Condition 19				2/Month***	Grab

*See Special Conditions 5 and 10

**See Special Condition 5

***Boron shall be monitored on a twice per month basis when Dallman Ash Pond Sluice Water is part of the discharge.

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:

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		CONCENTRATION LIMITS mg/l		SAMPLE FREQUENCY	SAMPLE TYPE
	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM		
Outfall: 010 Dallman Plant Intake Screen Backwash (DAF = 0.144 MGD)*						
Flow	See Special Condition 1				Daily	Estimate

*In addition to the raw water taken from Lake Springfield, ash sluice water from the Dallman Ash Pond is routed to the Dallman plant Intake. There shall be no discharge of collected debris from the intake screens. See Special Condition 22.

Outfall: 012 Stormwater Runoff from West Drainage Ditch and Dallman Fuel Oil Unloading Pad (DAF = 0.025 MGD)

*See Special Condition 17

Outfall: 013 Stormwater Runoff from East Drainage ditch (DAF = 0.049 MGD)

*See Special Condition 17

Outfall: 015 Stormwater Runoff from Coal Crusher House Manholes (DAF = 0.002 MGD)

*See Special Condition 17

Outfall: 016 Stormwater Runoff form Landfill (DAF = 0.014 MGD)

*See Special Condition 17

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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:

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		
Outfall: 017 High Service Pump Station Emergency Overflow (DAF = 30 gpm)* Clearwells 1, 2, and 3 Footing Drains High Service Pump Station Footing Drains High Service Pump Station Emergency Overflow						
Flow	See Special Condition 1				1/Week	Single Reading Estimate
pH	See Special Condition 2				1/Week	Grab
Total Residual Chlorine	See Special Condition 5			0.05	1/Week	Grab

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SPECIAL CONDITION 1. Flow shall be reported as a monthly average and daily maximum.

SPECIAL CONDITION 2. The pH shall be in the range 6.0 to 9.0 standard units. 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.

SPECIAL CONDITION 4. In accordance with IPCB 78-52, the thermal discharge to Lake Springfield from the Lakeside plant shall not exceed 99°F more than 5 percent of the hours in the 12-month period ending with any month and the discharge from the Dallman plant shall not exceed 99°F more than 8 percent of the hours in the 12-month period ending with any month and at no time shall any discharge exceed 109°F.

SPECIAL CONDITION 5. All samples for total residual chlorine (TRC) shall be analyzed by an applicable method contained in 40 CFR 136, equivalent in accuracy to low-level amperometric titration. Any analytical variability of the method used shall be considered when determining the accuracy and precision of the results obtained.

The water quality standards for TRC (0.011 mg/L average and 0.019 mg/L maximum) are below the method detection level (0.05 mg/L) as described in 40 CFR 136. Therefore, for the purpose of this permit, the method detection level shall be utilized to determine compliance with the permit limit for TRC. A measurement of <0.05 mg/L reported on the DMR shall not be considered a violation of the water quality based effluent limit. This reporting threshold is being established to determine compliance and does not authorize the discharge of TRC in excess of the water quality based effluent limit.

SPECIAL CONDITION 6. For the purpose of this permit discharges are limited to wastewater listed on the effluent pages for each permitted outfall.

SPECIAL CONDITION 7. There shall be no discharge of complexed chemical metal bearing wastestreams and associated rinses from chemical metal cleaning unless this permit has been modified to include the new discharge.

SPECIAL CONDITION 8. There shall be no discharge of polychlorinated biphenyl compounds.

SPECIAL CONDITION 9. To calculate the average daily flow for outfalls 001, 002 and 009 during the reporting period, the total number of pump hours observed is divided by the number of days in the month and then multiplied by the pump rate (gallons/hour). The minimum daily flow rate is determined by multiplying the lowest daily pump hour total by the pump rate. The maximum daily pump rate is calculated by multiplying the highest daily pump hour total by the pump rate.

SPECIAL CONDITION 10. During maintenance outages calcium hypochlorite may be used to passivate the condensers. During discharge of chlorinated wastewater from passivation of the main cooling condensers a minimum of three grab samples shall be taken at five minute intervals or less at the condenser cooling water outfall for each batch discharge allowing for lag time between chlorine discharge and the point of sampling before the first grab sample is taken. The individual values and average value for each set of samples shall be reported with monthly DMR forms including the time samples were collected, the time and duration of chlorine release plus the amount of chlorine applied.

If chlorinated wastewater is to be discharged as a result of these outage conditions for more than 2 hours per day the permittee must request this permit be modified to allow for such a practice.

SPECIAL CONDITION 11. The permittee shall record monitoring results on Discharge Monitoring Report forms using one such form for each discharge each month. The completed Discharge Monitoring Report form shall be submitted monthly to IEPA, no later than the 15th of the following month, unless otherwise specified by the Agency, to the following address:

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

SPECIAL CONDITION 12. 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.

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SPECIAL CONDITION 13. The use or operation of this facility shall be by or under the supervision of a Certified Class K operator.

SPECIAL CONDITION 14. The permittee shall comply with all provisions of adjusted standard AS 94-9 dated December 1, 1994, and IPCB R2009-08

SPECIAL CONDITION 15. In the event that water treatment additives other than those identified in the permit application are discharged, the permittee shall notify the Agency in accordance with the Standard Conditions (Attachment H) of this permit. The additives listed in previous applications include: Lime, Alum, Bentonite, Iron Sulfate, Cationic and Anionic Polymers, Carbon Dioxide, Chlorine Gas, Chlorine Dioxide, Calcium Hypochlorite, Sodium Chlorite, Sodium Bromide and a Polyglycol Biodispersant.

SPECIAL CONDITION 16.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

A. A storm water pollution prevention plan shall be maintained 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. The permittee shall modify the plan if substantive changes are made or occur affecting compliance with this condition.

1. Waters not classified as impaired pursuant to Section 303(d) of the Clean Water Act.

Unless otherwise specified by federal regulation, the storm water pollution prevention plan shall be designed for a storm event equal to or greater than a 25-year 24-hour rainfall event.

2. Waters classified as impaired pursuant to Section 303(d) of the Clean Water Act

For any site which discharges directly to an impaired water identified in the Agency's 303(d) listing, and if any parameter in the subject discharge has been identified as the cause of impairment, the storm water pollution prevention plan shall be designed for a storm event equal to or greater than a 25-year 24-hour rainfall event. If required by federal regulations, the storm water pollution prevention plan shall adhere to a more restrictive design criteria.

B. The operator or owner of the facility shall make a copy of the plan available to the Agency at any reasonable time upon request.

Facilities which discharge to a municipal separate storm sewer system shall also make a copy available to the operator of the municipal system at any reasonable time upon request.

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 H 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 30 days of any proposed construction or operational changes at the facility, 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. Any map or portion of map may be withheld for security reasons.
2. A site map showing:
 - i. The storm water conveyance and discharge structures;

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- 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.
 - x. Areas under items iv and ix above may be withheld from the site for security reasons.
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;
 - 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. Also provide a list of any pollutant that is listed as impaired in the most recent 303(d) report.
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.

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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. To the maximum extent practicable storm water discharged from any area where material handling equipment or activities, raw material, intermediate products, final products, waste materials, by-products, or industrial machinery are exposed to storm water should not enter vegetated areas or surface waters or infiltrate into the soil unless adequate treatment is provided.
 - 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. Minimize the quantity of storm water entering areas where material handling equipment of activities, raw material, intermediate products, final products, waste materials, by-products, or industrial machinery are exposed to storm water using green infrastructure techniques where practicable in the areas outside the exposure area, and otherwise divert storm water away from exposure area.
 - vi. Covered Storage or Manufacturing Areas - Covered fueling operations, materials manufacturing and storage areas to prevent contact with storm water.
 - vii. Storm Water Reduction - Install vegetation on roofs of buildings within adjacent to the exposure area to detain and evapotranspire runoff where precipitation falling on the roof is not exposed to contaminants, to minimize storm water runoff; capture storm water in devices that minimize the amount of storm water runoff and use this water as appropriate based on quality.
 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. The plan shall describe measures to limit erosion.
 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. Non-Storm Water Discharge - The plan shall include a certification that the discharge has been tested or evaluated for the presence of non-storm water discharge. The certification shall include a description of any test for the presence of non-storm water discharges, the methods used, the dates of the testing, and any onsite drainage points that were observed during the testing. Any facility that is unable to provide this certification must describe the procedure of any test conducted for the presence of non-storm water discharges, the test results, potential sources of non-storm water discharges to the storm sewer, and why adequate tests for such storm sewers were not feasible.
- H. Quarterly Visual Observation of Discharges - The requirements and procedures of quarterly visual observations are applicable to all outfalls covered by this condition.
1. You must perform and document a quarterly visual observation of a storm water discharge associated with industrial activity from each outfall. The visual observation must be made during daylight hours. If no storm event resulted in runoff during daylight hours from the facility during a monitoring quarter, you are excused from the visual observations requirement for that quarter, provided you document in your records that no runoff occurred. You must sign and certify the document.

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2. Your visual observation must be made on samples collected as soon as practical, but not to exceed 1 hour or when the runoff or snow melt begins discharging from your facility. All samples must be collected from a storm event discharge that is greater than 0.1 inch in magnitude and that occurs at least 72 hours from the previously measureable (greater than 0.1 inch rainfall) storm event. The observation must document: color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution. If visual observations indicate any unnatural color, odor, turbidity, floatable material, oil sheen or other indicators of storm water pollution, the permittee shall obtain a sample and monitor for the parameter or the list of pollutants in Part E.4.
 3. You must maintain your visual observation reports onsite with the SWPPP. The report must include the observation date and time, inspection personnel, nature of the discharge (i.e., runoff or snow melt), visual quality of the storm water discharge (including observations of color, odor, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution), and probable sources of any observed storm water contamination.
 4. You may exercise a waiver of the visual observation requirement at a facility that is inactive or unstaffed, as long as there are no industrial materials or activities exposed to storm water. If you exercise this waiver, you must maintain a certification with your SWPPP stating that the site is inactive and unstaffed, and that there are no industrial materials or activities exposed to storm water.
 5. Representative Outfalls - If your facility has two or more outfalls that you believe discharge substantially identical effluents, based on similarities of the industrial activities, significant materials, size of drainage areas, and storm water management practices occurring within the drainage areas of the outfalls, you may conduct visual observations of the discharge at just one of the outfalls and report that the results also apply to the substantially identical outfall(s).
 6. The visual observation documentation shall be made available to the Agency and general public upon written request.
- I. 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.
 - J. 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.
 - K. The plan is considered a report that shall be available to the public at any reasonable time upon request.
 - L. 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.
 - M. Facilities which discharge storm water associated with industrial activity to municipal separate storm sewers may also be subject to additional requirement imposed by the operator of the municipal system

Construction Authorization

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

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

- N. If any statement or representation is found to be incorrect, this authorization may be revoked and the permittee there upon waives all rights thereunder.
- O. 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.
- P. Plans and specifications of all treatment equipment being included as part of the stormwater management practice shall be included in the SWPPP.

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- Q. Construction activities which result from treatment equipment installation, including clearing, grading and excavation activities which result in the disturbance of one acre or more of land area, are not covered by this authorization. The permittee shall contact the IEPA regarding the required permit(s).

REPORTING

- R. The facility shall submit an electronic copy of the annual inspection report to the Illinois Environmental Protection Agency. The report shall include results of the annual facility inspection which is required by Part I of this condition. 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). The annual inspection report is considered a public document that shall be available at any reasonable time upon request.
- S. 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 year's information and shall be submitted no later than one year after the previous year's report was due.
- T. If the facility performs inspections more frequently than required by this permit, the results shall be included as additional information in the annual report.
- U. The permittee shall retain the annual inspection report on file at least 3 years. This period may be extended by request of the Illinois Environmental Protection Agency at any time.

Annual inspection reports shall be mailed to the following address:

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

- V. The permittee shall notify any regulated small municipal separate storm sewer owner (MS4 Community) that they maintain coverage under an individual NPDES permit. The permittee shall submit any SWPPP or any annual inspection to the MS4 community upon request by the MS4 community.

SPECIAL CONDITION 17. 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 (Outfalls 003, 004, 005, 006, 007, 008 and 011) 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.

SPECIAL CONDITION 18. The Permittee shall monitor Outfall 003 for Iron (Total) on a semi-annual basis. The results of these sampling analyses shall be included with the June and December monthly Discharge Monitoring Reports. The Agency may modify this permit as a result of these analyses to include limits for Iron (Total) and the appropriate monitoring frequency.

SPECIAL CONDITION 19. The permit may be modified as a result of these analyses to include limits for boron at outfall 002 and/or outfall 009 and include the appropriate monitoring frequency for boron at those outfalls. Modifications under this special condition shall follow public notice and opportunity for hearing.

SPECIAL CONDITION 20. Samples taken in compliance with the effluent monitoring requirements at the Outfall 006 Ash Pond discharge shall be taken at a point representative of the discharge but prior to entry into the Dallman Plant Intake.

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SPECIAL CONDITION 21. In addition to the other requirements of this permit, the permittee shall comply with all procedures of the boron monitoring program submitted to the Agency on March 27, 2000. Agency approval shall be granted prior to changing the procedures identified in the boron monitoring program submitted to the Agency. The Ash Pond Effluent shall not be discharged from Outfall 002 and/or 009 if it becomes apparent that the procedures of the boron monitoring program can not be adhered to.

SPECIAL CONDITION 22. The permittee has undergone a monitoring reduction review and the effluent sample frequency has been reduced for the following parameters: total suspended solids at outfalls B01, and 005; oil & grease at outfalls B01, 003, 004, and 005; and iron (total) at outfall 005. The IEPA will require that the effluent sample frequency for total suspended solids and oil & grease at outfalls B01 be increased to the frequency of 2/month, that the sample frequency for oil & grease at outfalls 003, 004, and 005 be increased to the frequency of 2/month, and that the sample frequency for total suspended solids and iron (total) at outfall 005 be increased to the frequency of 1/week, if effluent deterioration occurs due to increased wasteload, operational, maintenance or other problems. The increased monitoring frequency will be required Without Public Notice when a permit modification is received by the permittee from the IEPA.

SPECIAL CONDITION 23. The Permittee shall monitor the effluent from outfalls 004, 005 and 006 and report concentrations (in mg/L) of the following listed parameters on a semi-annual basis, with results submitted in July and January for the preceding 6 month period. The sample shall be a 24-hour effluent composite except as otherwise specifically provided below and the results shall be submitted on Discharge Monitoring Report Forms to IEPA unless otherwise specified by the IEPA. The parameters to be sampled and the minimum detection limits from Outfall 004 and Outfall 005 to be attained are as follows:

<u>STORET CODE</u>	<u>PARAMETER</u>	<u>Minimum detection limit</u>
01002	Arsenic	0.05 mg/L
01007	Barium	0.5 mg/L
01027	Cadmium	0.003 mg/L
01032	Chromium (hexavalent) (grab)	0.01 mg/L
01034	Chromium (total)	0.05 mg/L
01042	Copper	0.005 mg/L
00718	Cyanide (grab) (weak acid dissociable)	10.0 ug/L
00720	Cyanide (grab not to exceed 24 hours) (total)	10.0 ug/L
00951	Fluoride	0.1 mg/L
01045	Iron (total)	0.5 mg/L
01046	Iron (Dissolved)	0.5 mg/L
01051	Lead	0.05 mg/L
01055	Manganese	0.5 mg/L
01067	Nickel	0.005 mg/L
00556	Oil (hexane soluble or equivalent) (Grab Sample only)	1.0 mg/L
32730	Phenols (grab)	0.005 mg/L
01147	Selenium	0.002 mg/L
01077	Silver (total)	0.003 mg/L
01092	Zinc	0.050 mg/L

Unless otherwise indicated, concentrations refer to the total amount of the constituent present in all phases, whether solid, suspended or dissolved, elemental or combined, including all oxidation states.

SPECIAL CONDITION 24: 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 dated March 22, 2005.

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.

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SPECIAL CONDITION 25: Mercury 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 26: The Permittee shall prepare a biomonitoring plan for the testing of Outfall 004. The plan must be submitted to the Compliance Assurance Section within ninety (90) days of the effective date of this permit.

Biomonitoring

1. Chronic Toxicity - Standard definitive chronic toxicity tests shall be run on at least two (2) trophic levels of aquatic species (fish and invertebrate) representative of the aquatic community of the receiving stream. Testing must be consistent with Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms, (Fourth Edition) EPA/821-R-02-013. Results shall be reported according to Section 10. The selection of an appropriate control for the toxicity tests shall be submitted to IEPA for review and approval prior to use. Unless substitute tests are pre-approved; the following tests are required:

- a. Fish - Fathead Minnow (*Pimephales promelas*) Larval Survival and Growth Test.
- b. Invertebrates - Ceriodaphnia Survival and Reproduction Test.

2. Testing Frequency – Three (3) rounds of the above tests shall be conducted during the first six (6) months after Agency approval of the biomonitoring plan. The Permittee shall conduct the tests annually thereafter. Tests shall be performed using 24-hour composite effluent samples unless otherwise authorized by IEPA. When possible, bioassay sample collection should coincide with sample collection for metals analysis or other parameters that may contribute to effluent toxicity. Results shall be reported according to EPA/821-R-02-012, Section 12, Report Preparation, and shall be submitted to IEPA within one week of becoming available to the Permittee. The Permittee shall submit results to the following addresses.

Illinois Environmental Protection Agency
Bureau of Water
Compliance Assurance Section, Mail Code 19
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

Illinois Environmental Protection Agency
Bureau of Water
Attn: Brian Koch, Water Quality Standards
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

3. Toxicity Assessment - Should a chronic bioassay result in a No Observable Adverse Effect Level of <100% effluent based on survival or reproduction, the IEPA may require that the Permittee prepare a plan for toxicity reduction evaluation and identification. This plan shall be developed in accordance with Toxicity Reduction Evaluation Guidance for Municipal Wastewater Treatment Plants, EPA/833B-99/002, and shall include an evaluation to determine which chemicals have a potential for being discharged in the plant wastewater, a monitoring program to determine their presence or absence and to identify other compounds which are not being removed by treatment, and other measures as appropriate. The Permittee shall submit to the IEPA its plan for toxicity reduction evaluation within ninety (90) days following notification by the IEPA. The Permittee shall implement the plan within ninety (90) days or other such date as contained in a notification letter received from the IEPA.

The IEPA may modify this Permit during its term to incorporate additional requirements or limitations based on the results of the biomonitoring. In addition, after review of the monitoring results, the IEPA may modify this Permit to include numerical limitations for specific toxic pollutants. Modifications under this condition shall follow public notice and opportunity for hearing.

SPECIAL CONDITION 27: Establish a groundwater monitoring program plan for the ash impoundment site for IEPA approval.

Public Notice of Draft Reissued Permit

Public Notice Number SMT:06121201.dlk 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 National Pollutant Discharge Elimination System (NPDES) Permit has been prepared under 40 CFR 124.6(d) for City of Springfield for discharge into Lake Springfield and Sugar Creek from the City Water, Light and Power. The Applicant operates an existing fossil-fuel steam electric generating facility with a total generating capacity of 618 MW (SIC 4911). The Facility consists of two complexes "Lakeside" and "Dallman". The Lakeside complex consisted of two generating units, Lakeside 1 and 2. The applicant stopped operating the Lakeside Units in October, 2009. The Dallman Complex is still operating and consists of four generating units. Dallman 1 and 2 are cyclone fed coal fired boilers with a combined generating capacity of 180.6 MW. Dallman 3 is a pulverized coal fired boiler with a generating capacity of 207.4 MW. Dallman 4 is a pulverized coal fired boiler with a nameplate capacity of 230.1 MW. Dallman 1, 2, and 3 generating facilities are cooled using lake water on an once-through cooling cycle. Dallman 4 utilizes a cooling tower.

Regulated discharges from City Water, Light and Power Generating Station to Lake Springfield are: No. 001-Lakeside Condenser Cooling Water Outfall which is an intermittent discharge; No. B01 - Miscellaneous Equipment Drains - Below Ground Seepage Water with an average flow of 0.0002 MGD; No. 002-Dallman 1 and 2 Condenser Cooling Water Outfall with an average flow of 201.6 MGD; No. 005-Industrial Wastewater Treatment Plant Outfall with an average flow of 3.883 MGD; No. 006-Ash Pond Discharge to Lake Springfield with an average flow of 10 MGD; No. 007-Dallman Coal Pile Runoff which is an intermittent discharge; No. 008-Lakeside Coal Pile Runoff which is an intermittent discharge; No. 009-Dallman 3 Condenser Cooling Water Outfall with an average flow of 187.1 MGD; No. 010-Dallman Plant Intake Screen Backwash with an average flow of 0.144 MGD; No. 012-Storm Water Runoff from West Drainage Ditch and Dallman Fuel Oil Unloading Pad with an average flow of 0.025 MGD; No.013- Storm Water Runoff from East Drainage Ditch with an average flow of 0.049 MGD; and No. 015-Storm Water Runoff from Coal Crusher House Manholes with an average flow of 0.002 MGD. Regulated discharges from City Water, Light and Power Generating Station into Sugar Creek are: No. 003-Lakeside Storm Sewer which is an intermittent discharge; No. 004-Ash Pond Discharge with an average flow of 2.797 MGD; No. 016 Stormwater Runoff from Landfill with an average flow of 0.014 MGD; and No. 017 High Service Pump Station Emergency Overflow with an average flow of 30 GPM.

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 modified 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 45 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 30 days before any public hearing.

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