

NPDES Permit No. IL0046779  
Notice No. LRL:11082301.bah

Public Notice Beginning Date: **November 23, 2011**

Public Notice Ending Date: **December 23, 2011**

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:

Dominion Elwood Services Co.  
5000 Dominion Boulevard  
Glen Allen, VA 23060

Name and Address of Facility:

Elwood Energy Facility  
20900 Noel Road  
Elwood, IL 60421  
(Will 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 Leslie Lowry at 217/782-0610.

The applicant is engaged in generating electricity from simple cycle combustion turbine generator units (SIC 4911). Plant operation results in an average discharge of 3,500 gpd of evaporative cooling water and stormwater runoff from outfall 001, 3,800 gpd of evaporative cooling water and stormwater runoff from outfall 002, 3,900 gpd of evaporative cooling water and stormwater runoff from outfall 003, 3,700 gpd of evaporative cooling water and stormwater runoff from outfall 004, 250 gpd of treated sanitary from internal outfall A05, and an intermittent discharge evaporative cooling water, treated sanitary (A05), and stormwater runoff from outfall 005.

The following modification is proposed:

Outfalls 006 – 009 were removed. The wastewaters from outfalls 006 – 009 all flow into outfall 005 (stormwater pond). Add internal outfall A05, treated sanitary.

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

Outfall	Receiving Stream	Latitude	Longitude	Stream Classification	Integrity Rating
001	Storm Sewer Tributary to Unnamed Tributary to Cedar Creek	41° 26' 26" North	88° 7' 23" West	General Use	----
002	Storm Sewer Tributary to Unnamed Tributary to Cedar Creek	41° 26' 26" North	88° 7' 23" West	General Use	----
003	Storm Sewer Tributary to Unnamed Tributary to Cedar Creek	41° 26' 26" North	88° 7' 23" West	General Use	----
004	Storm Sewer Tributary to Unnamed Tributary to Cedar Creek	41° 26' 26" North	88° 7' 23" West	General Use	----
005	Unnamed Tributary to Cedar Creek	41° 26' 53" North	88° 7' 5" West	General Use	----

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

The stream segment receiving the discharge from outfalls 001 – 005 is not on the 2010 303(d) list of impaired waters and is not a biologically significant stream on the 2008 Illinois Department of the Natural Resources Publication *Integrating Multiple Taxa in a Biological Stream Rating System*.

The discharges from the facility shall be monitored and limited at all times as follows:

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		REGULATION	CONCENTRATION LIMITS mg/L		REGULATION
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM	
<u>Outfall 001:</u>						
Flow (MGD)						
pH				6 – 9 s.u.		35 IAC 304.125
Temperature				Monitor Only		
Chloride				Monitor Only		
Sulfate				Monitor Only		
<u>Outfall 002:</u>						
Flow (MGD)						
pH				6 – 9 s.u.		35 IAC 304.125
Temperature				Monitor Only		
Chloride				Monitor Only		
Sulfate				Monitor Only		
<u>Outfall 003:</u>						
Flow (MGD)						
pH				6 – 9 s.u.		35 IAC 304.125
Temperature				Monitor Only		
Chloride				Monitor Only		
Sulfate				Monitor Only		

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		REGULATION	CONCENTRATION LIMITS mg/L		REGULATION
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM	
<u>Outfall 004:</u>						
Flow (MGD)						
pH				6 – 9 s.u.		35 IAC 304.125
Temperature				Monitor Only		
Chloride				Monitor Only		
Sulfate				Monitor Only		
<u>Outfall A05:</u>						
Flow (MGD)						
BOD <sub>5</sub>	0.13	0.25	35 IAC 304.120	30	60	35 IAC 304.120
Total Suspended Solids	0.13	0.25	35 IAC 304.120	30	60	35 IAC 304.120
<u>Outfall 005:</u>						
Flow (MGD)						
pH				6 – 9 s.u.		35 IAC 304.125
Fecal Coliform				Monitor Only		
Chloride				Monitor Only		
Sulfate				Monitor Only		

Load Limit Calculations:

- A. Load limit calculations for the following pollutant parameters were based on a design maximum flow of 0.0005 MGD and using the formula of average or maximum flow (MGD) X concentration limit (mg/l) X 8.34 = the average or maximum load limit (lbs/day): BOD<sub>5</sub> and Total Suspended Solids.

The following explain the conditions of the proposed permit:

The Special Conditions clarify flow, pH, temperature, monitoring location, discharge monitoring report submission, and stormwater.



NPDES Permit No. IL0046779

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

Reissued (NPDES) Permit

Expiration Date:

Issue Date:

Effective Date:

Name and Address of Permittee:

Dominion Elwood Services Co.  
5000 Dominion Boulevard  
Glen Allen, VA 23060

Facility Name and Address:

Elwood Energy Facility  
20900 Noel Road  
Elwood, IL 60421  
(Will County)

Discharge Number and Name:	Receiving Waters:
001 Evaporative Cooling Water and Stormwater Runoff	Storm Sewer Tributary to an Unnamed Tributary to Cedar Creek
002 Evaporative Cooling Water and Stormwater Runoff	Storm Sewer Tributary to an Unnamed Tributary to Cedar Creek
003 Evaporative Cooling Water and Stormwater Runoff	Storm Sewer Tributary to an Unnamed Tributary to Cedar Creek
004 Evaporative Cooling Water and Stormwater Runoff	Storm Sewer Tributary to an Unnamed Tributary to Cedar Creek
A05 Treated Sanitary	Storm Sewer Tributary to an Unnamed Tributary to Cedar Creek
005 Stormwater Pond	Unnamed Tributary to Cedar 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: LRL:11082301.bah

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		
<u>Outfall 001</u> – Evaporative Cooling Water and Stormwater Runoff* (Average Flow = 3,500 gpd)						
Flow (MGD)	See Special Condition 1.				1/Month*	
pH	See Special Condition 2.				1/Month*	Grab
Temperature			Monitor Only		1/Month*	Grab
Chloride			Monitor Only		2/Year*	Grab
Sulfate			Monitor Only		2/Year*	Grab
* - When discharging evaporative cooling water.						
<u>Outfall 002</u> – Evaporative Cooling Water and Stormwater Runoff* (Average Flow = 3,800 gpd)						
Flow (MGD)	See Special Condition 1.				1/Month*	
pH	See Special Condition 2.				1/Month*	Grab
Temperature			Monitor Only		1/Month*	Grab
Chloride			Monitor Only		2/Year*	Grab
Sulfate			Monitor Only		2/Year*	Grab
* - When discharging evaporative cooling water.						
<u>Outfall 003</u> – Evaporative Cooling Water and Stormwater Runoff* (Average Flow = 3,900 gpd)						
Flow (MGD)	See Special Condition 1.				1/Month*	
pH	See Special Condition 2.				1/Month*	Grab
Temperature			Monitor Only		1/Month*	Grab
Chloride			Monitor Only		2/Year*	Grab
Sulfate			Monitor Only		2/Year*	Grab
* - When discharging evaporative cooling water.						

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		
<u>Outfall 004</u> – Evaporative Cooling Water and Stormwater Runoff* (Average Flow = 3,700 gpd)						
Flow (MGD)	See Special Condition 1.				1/Month*	
pH	See Special Condition 2.				1/Month*	Grab
Temperature			Monitor Only		1/Month*	Grab
Chloride			Monitor Only		2/Year*	Grab
Sulfate			Monitor Only		2/Year*	Grab
* - When discharging evaporative cooling water.						
<u>Outfall A05</u> – Treated Sanitary (DMF = 500 gpd)						
Flow (MGD)	See Special Condition 1.				1/Month	
BOD <sub>5</sub>	0.13	0.25	30	60	1/Month	Grab
Total Suspended Solids	0.13	0.25	30	60	1/Month	Grab
<u>Outfall 005</u> – Stormwater Pond (Intermittent Discharge)						
This discharge consists of: 1. Treated Sanitary (A05) 2. Evaporative Cooling Water 3. Stormwater Runoff*						
Flow (MGD)	See Special Condition 1.				1/Month*	
pH	See Special Condition 2.				1/Month*	Grab
Fecal Coliform			Monitor Only		1/Quarter*	Grab
Chloride			Monitor Only		1/Quarter*	Grab
Sulfate			Monitor Only		1/Quarter*	Grab
* - When Discharging.						

Special Conditions

SPECIAL CONDITION 1. Flow shall be measured in units of Million Gallons per Day (MGD) and reported as a monthly average and a daily maximum on the Discharge Monitoring Report.

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. 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 15th 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 4. 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 5. 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 6. The use or operation of this facility shall be by or under the supervision of a Certified Class 4 operator.

SPECIAL CONDITION 7. For the purpose of this permit, this discharge from outfalls 001 – 004 are limited to evaporate cooling water and stormwater, free from process and other wastewater discharges. In the event that the permittee shall require the use of water treatment additives, the permittee must request a change in this permit in accordance with Standard Conditions – Attachment H.