

NPDES Permit No. IL0069281  
Notice No. MEL:11081601.bah

Public Notice Beginning Date: **September 15, 2011**

Public Notice Ending Date: **October 17, 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:

CF Industries, Inc.  
737 East DuPont Road  
Seneca, Illinois 61360

Name and Address of Facility:

CF Industries, Inc. - Seneca Terminal  
737 East DuPont Road  
Seneca, Illinois 61360  
(Grundy 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 Mark E. Liska at 217/782-0610.

The applicant is a terminal that stores and distributes anhydrous ammonia (SIC 5191). Waste water is generated from the discharge of non-contact cooling water from ammonia compressors and a condenser, sanitary leach field seepage and collected spring water. Stormwater will be discharged through the outfall as it collects within the dike area of the terminal. Plant operation results in an average discharge of 0.09 MGD of non-contact cooling water, sanitary leach field seepage, collected spring water and stormwater from outfall 001.

Application is made for the existing discharge(s) which is located in Grundy County, Illinois. The following information identifies the discharge point, receiving stream and stream classifications:

Outfall	Receiving Stream	Latitude	Longitude	Stream Classification	Integrity Rating
001	Illinois River	41° 18' 07" North	88° 35' 22" West	General Use	Not Rated

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

The stream segment D-23 receiving the discharge from outfall(s) 001 is on the 2010 303(d) list of impaired waters and is a biologically significant stream.

The following parameters have been identified as the pollutants causing impairment:

Designated Use	Potential Cause
Fish Consumption	Mercury, PCBs
Primary Contact Recreation	Fecal Coliform

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

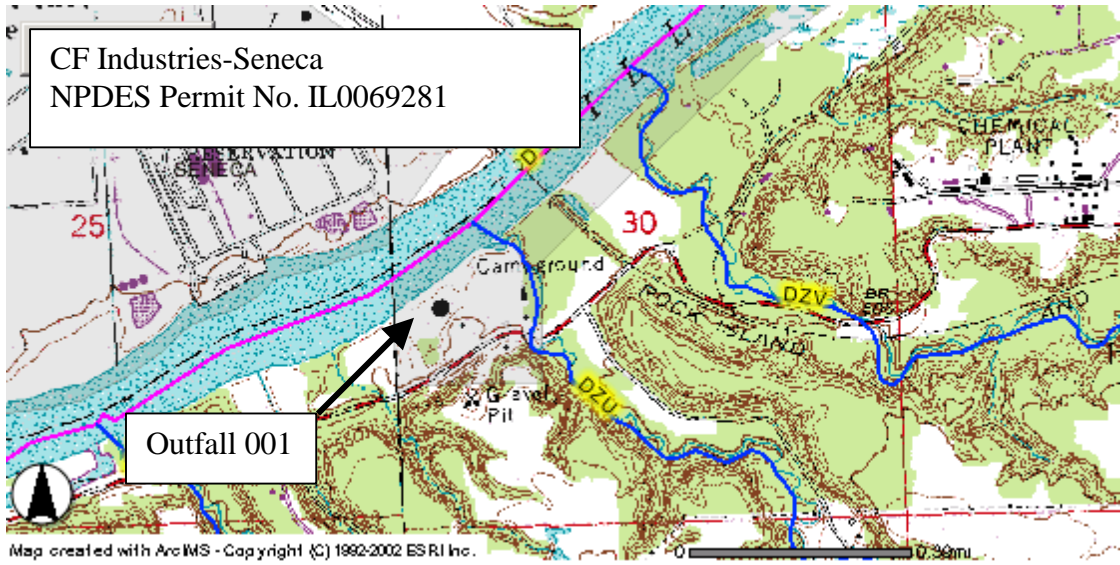
Outfall: 001

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		REGULATION	CONCENTRATION LIMITS mg/L		REGULATION
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM	
Flow						35 IAC 309.146
pH						35 IAC 304.125
Temperature						35 IAC 302.211
Fecal Coliform				400 per 100 mL		35 IAC 304.121
BOD <sub>5</sub>				30	60	35 IAC 304.120(a)
TSS				30	60	35 IAC 304.120(a)
Total Residual Chlorine					0.05	40 CFR 125.3
Ammonia				Monitor Only		35 IAC 309.146

The load limits appearing in the permit will be the more stringent of the State and Federal Guidelines.

The following explain the conditions of the proposed permit:

Special Conditions will require monthly DMR submission, explain total residual chlorine analysis, and explain limits for pH, temperature, and fecal coliform.



NPDES Permit No. IL0069281

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:

CF Industries, Inc.  
737 East DuPont Road  
Seneca, Illinois 61360

Facility Name and Address:

CF Industries, Inc. - Seneca Terminal  
737 East DuPont Road  
Seneca, Illinois 61360  
(Grundy County)

Discharge Number and Name:

001 – Non-contact cooling water, sanitary leach field seepage,  
collected spring water and stormwater

Receiving Waters:

Illinois River

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: MEL:11081601.bah

## NPDES Permit No. IL0069281

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 – Non-contact cooling water, sanitary leach field seepage (Discharge = 0.09 MGD)  
Collected Spring Water and Stormwater Runoff (Intermittent Discharge)

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		
Flow	See Special Condition 1				Continuous	Measure
pH	See Special Condition 2				1/Month	Grab
Temperature	See Special Condition 3				1/Month	Single-Reading
Fecal Coliform	See Special Condition 4				1/Month	Grab
BOD <sub>5</sub>			30	60	1/Month	Composite
TSS			30	60	1/Month	Composite
Total Residual Chlorine*				0.05	1/Month	Grab
Ammonia			Monitor Only		1/Month	Composite

\* See also Special Condition 10.

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 monthly 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. This facility is not allowed any mixing with the receiving stream in order to meet applicable water quality thermal limitations. Therefore, discharge of wastewater from this facility must meet the following thermal limitations prior to discharge into the receiving stream.

A. The discharge must not exceed the maximum limits in the following table during more than one percent of the hours in the 12 month period ending with any month. Moreover, at no time shall the water temperature of the discharge exceed the maximum limits in the following table by more the 1.7° C (3° F).

	<u>Jan.</u>	<u>Feb.</u>	<u>Mar.</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Oct.</u>	<u>Nov.</u>	<u>Dec.</u>
F	60	60	60	90	90	90	90	90	90	90	90	60
C	16	16	16	32	32	32	32	32	32	32	32	16

B. In addition, the discharge shall not cause abnormal temperature changes that may adversely affect aquatic life unless caused by natural conditions.

C. The discharge shall not cause the maximum temperature rise above natural temperatures to exceed 2.8° C° (5° F).

D. The monthly maximum value shall be reported on the DMR form.

SPECIAL CONDITION 4. The daily maximum fecal coliform count shall not exceed 400 per 100 ml.

SPECIAL CONDITION 5. 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 6. 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 7. 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 8. For the purpose of this permit, the discharge from outfall 001 is limited to non-contact cooling water, spring-fed groundwater, septic leach field and stormwater, free from process and other wastewater discharges. In the event

Special Conditions

that the permittee shall require the use of water treatment additives not reviewed as part of the permit application for this permit, the permittee must request a change in this permit in accordance with Standard Conditions -- Attachment H.

SPECIAL CONDITION 9. The limitations contained in this permit shall not apply to the stormwater portion of the discharge from outfall 001.

SPECIAL CONDITION 10. All samples for total residual chlorine 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.

