

NPDES Permit No. IL0063827  
Notice No. KPM:23090601.docx

Public Notice Beginning Date: May 29, 2024

Public Notice Ending Date: June 28, 2024

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:

FL Smidth, Inc.  
1 Excel Way  
Pekin, Illinois 61554

Name and Address of Facility:

FL Smidth, Inc.  
1 Excel Way  
Pekin, Illinois 61554  
(Tazewell 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 Keegan MacDonna at 217/782-0610.

The applicant is engaged in the pouring, casting and coating of non-ferrous metals and grinding, machining, cutting, welding and storage of castings prior to repair or shipment as finished product (SIC 3362). Plant operation results in an average discharge of 0.0022 MGD of contact cooling water, reverse osmosis reject water, non-contact cooling water and stormwater runoff from Outfall 001.

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

<u>Outfall</u>	<u>Receiving Stream</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Stream Classification</u>	<u>Integrity Rating</u>
001	Unnamed Tributary of Mackinaw River	40° 31' 55" North	89° 41' 46" West	General Use	None

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

The stream segment IL\_DK-12 receiving the discharge from Outfall 001 is not on the 2020/2022 Illinois Integrated Water Quality Report and Section 303(d) List of impaired waters and is not a biologically significant stream on the 2008 Illinois Department of Natural Resources Publication – *Integrating Multiple Taxa in a Biological Stream Rating System*.

The facility has changed their name from “Excel Foundry and Machine, Inc.” to “FL Smidth, Inc.” and requested the name to be updated in the NPDES Permit. This Fact Sheet and the draft NPDES Permit have been revised to include the new name of the facility.

A review by the Agency’s Water Quality Standards Unit determined that there is a reasonable potential to exceed water quality standards for zinc at Outfall 001. Monthly average and daily maximum concentration limits for zinc have been added at Outfall 001 in accordance with 35 Ill. Adm. Code 302.208. The facility may collect and submit data to the Agency in order to develop a site-specific metals translator, to potentially revise or eliminate effluent limitations for zinc. Details for this elective process are included in Special Condition 10 of the draft permit.

The facility’s DMR data showed a potential to exceed technology-based effluent standards for total iron, so limits have been added for total iron at Outfall 001 in accordance with 35 Ill. Adm. Code 304.124.

The facility discharges to surface water through Outfall 001 at a location where the 7Q10 flow of the receiving stream is 0 cfs. Since there is no flow under 7Q10 conditions, all applicable water quality standards must be met at end-of-pipe with no allowed mixing. For this reason, the pH limit has been adjusted from 6.0-9.0 standard units to 6.5-9.0 standard units, in accordance with 35 Ill. Adm. Code 302.204.

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

PARAMETER	LOAD LIMITS lbs/day		REGULATION	CONCENTRATION		REGULATION
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM	
<u>Outfall 001:</u>						
Flow (MGD)						35 IAC 309.146
pH				6.5 to 9.0 s.u.		35 IAC 302.204
Temperature						35 IAC 302.211
Total Suspended Solids				15	30	35 IAC 304.124
Chloride					500	35 IAC 302.208
Oil and Grease				15	30	35 IAC 304.124
Iron (total)				2	4	35 IAC 309.146
Zinc				0.0827	0.3185	35 IAC 309.146
Manganese				Monitor Only		35 IAC 309.146
Copper				Monitor Only		35 IAC 309.146

The following explain the conditions of the proposed permit:

The special conditions clarify flow monitoring and reporting, pH, temperature, monitoring location, discharge monitoring report submission, use of water treatment additives, re-opener, water quality standards, stormwater requirements, and site-specific metals translator study.



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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:

FL Smidth, Inc.  
1 Excel Way  
Pekin, Illinois 61554

Facility Name and Address:

FL Smidth, Inc.  
1 Excel Way  
Pekin, Illinois 61554

Discharge Number and Name:

001 - Contact Cooling water, Reverse Osmosis Reject Water,  
Non-Contact Cooling Water and Stormwater Runoff

Receiving Waters:

Unnamed Tributary of Mackinaw 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.

Darin E. LeCrone, P.E.  
Manager, Permit Section  
Division of Water Pollution Control

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### Effluent Limitations and Monitoring

1. From the modification date of this permit until the expiration date, the effluent of the following discharges shall be monitored and limited at all times as follows:

PARAMETER	LOAD LIMITS lbs/day		CONCENTRATION		SAMPLE FREQUENCY	SAMPLE TYPE
	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM		
<u>Outfall 001</u> – Contact Cooling Water, Reverse Osmosis Reject Water, Non-Contact Cooling Water and Stormwater Runoff* (Average Flow = 0.0022 MGD)						
Flow (MGD)	See Special Condition 1.				1/Month	Measure
pH	See Special Condition 2.				1/Month	Grab
Temperature	See Special Condition 3.				1/Month	Single Reading
Total Suspended Solids			15	30	1/Month	Grab
Chloride				500	1/Month	Grab
Oil and Grease			15	30	1/Month	Grab
Iron (total)			2	4	1/Month	Grab
Zinc			0.0827	0.3185	1/Month	Grab
Copper			Monitor Only		1/Month	Grab
Manganese			Monitor Only		1/Month	Grab
See Special Condition 9.						

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Special Conditions

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

SPECIAL CONDITION 2. The pH shall be in the range 6.5 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. 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 5. The Permittee shall record monitoring results on Discharge Monitoring Report (DMR) electronic 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 is required to submit electronic DMRs (NetDMRs) instead of mailing paper DMRs to the IEPA unless a waiver has been granted by the Agency. More information, including registration information for the NetDMR program, can be obtained on the IEPA website, <https://epa.illinois.gov/topics/water-quality/surface-water/netdmr.html>.

The completed Discharge Monitoring Report forms shall be submitted to IEPA no later than the 25th day of the following month, unless otherwise specified by the permitting authority.

Permittees that have been granted a waiver 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  
Attention: Compliance Assurance Section, Mail Code # 19  
1021 North Grand Avenue East  
Post Office Box 19276  
Springfield, Illinois 62794-9276

SPECIAL CONDITION 6. This permit authorizes the use of existing water treatment additives at the facility. The use of any new additives, or change in those previously approved by the Agency, or if the permittee increases the feed rate or quantity of the additives used beyond what has been approved by the Agency, the permittee shall request a modification of this permit in accordance with the Standard Conditions – Attachment H.

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.

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Special Conditions

SPECIAL CONDITION 8. The effluent, alone or in combination with other sources, shall not cause a violation of any applicable water quality standard outlined in 35 Ill. Adm. Code 302.

SPECIAL CONDITION 9. The Agency has determined that the effluent limitations in this permit constitute BAT/BCT for storm water which is treated in the existing treatment facilities for purposes of this permit issuance, 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 10. The Permittee may collect data in support of developing a site-specific metals translator for Zinc at Outfall 001. Total and dissolved metals monitoring for a minimum of twelve weekly samples need to be collected and analyzed from the effluent and at a downstream location indicative of complete mixing between the effluent and the receiving water to determine a metal translator for these parameters. Before sampling is commenced, a study plan is required to be sent to the Agency indicating the location, frequency, and methods for the translator study. The IEPA will review submitted sample data and may reopen and modify this Permit to eliminate or include revised effluent limitations for these parameters based on the metal translator determined from the collected data.

