

PHILIP D. MURPHY Governor

AIR, EN

SHAWN M. LATOURETTE Commissioner

TAHESHA L. WAY Lt. Governor AIR, ENERGY AND MATERIALS SUSTAINABILITY
Division of Air Quality and Radiation Protection
Bureau of Stationary Sources
401 E. State Street, 2nd floor, P.O. Box 420, Mail Code 401-02
Trenton, NJ 08625-0420

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Air Pollution Control Operating Permit Renewal

Permit Activity Number: BOP220001 Program Interest Number: 02842

Mailing Address	Plant Location
GREG MATONTI	UNIMAC GRAPHICS
PRESIDENT	350 Michele Pl
UNIMAC GRAPHICS	Carlstadt
350 MICHELE PL	Bergen County
Carlstadt, NJ 07072	

Initial Operating Permit Approval Date: November 12, 2003

Operating Permit Approval Date: DRAFT

Operating Permit Expiration Date: Approval date + 5 years

AUTHORITY AND APPLICABILITY

The New Jersey Department of Environmental Protection (Department) approves and issues this Air Pollution Control Operating Permit under the authority of Chapter 106, P.L. 1967 (N.J.S.A. 26:2C-9.2). This permit is issued in accordance with the air pollution control permit provisions promulgated at Title V of the Federal Clean Air Act, 40 CFR 70, Air Pollution Control Act codified at N.J.S.A. 26:2C and New Jersey State regulations promulgated at N.J.A.C. 7:27-22.

The Department approves this operating permit based on the evaluation of the certified information provided in the permit application that all equipment and air pollution control devices regulated in this permit comply with all applicable State and Federal regulations. The facility shall be operated in accordance with the conditions of this permit. This operating permit supersedes any previous Air Pollution Control Operating Permits issued to this facility by the Department including any general operating permits, renewals, significant modifications, minor modifications, seven-day notice changes or administrative amendments to the permit.

Changes made through this permit activity are provided in the Reason for Application.

PERMIT SHIELD

This operating permit includes a permit shield, pursuant to the provisions of N.J.A.C. 7:27-22.17.

COMPLIANCE SCHEDULES

This operating permit does not include compliance schedules as part of the approved compliance plan.

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COMPLIANCE CERTIFICATIONS AND DEVIATION REPORTS

The permittee shall submit to the Department and to United States Environmental Protection Agency (US EPA) periodic compliance certifications, in accordance with N.J.A.C. 7:27-22.19. **The annual compliance certification** is due to the Department and EPA within 60 days after the end of each calendar year during which this permit was in effect. **Semi-annual deviation reports** relating to compliance testing and monitoring are due to the Department within 30 days after the end of the semi-annual period. The schedule and additional details for these submittals are available in Subject Item - FC, of the Facility Specific Requirements of this permit.

ACCESSING PERMITS

The facility's current approved operating permit and any previously issued permits (e.g. superseded, expired, or terminated) are available for download in PDF format at: https://dep.nj.gov/boss. After accessing the website, click on "Approved Operating Permits" listed under "Reports" and then type in the Program Interest (PI) Number as instructed on the screen. If needed, the RADIUS file for your permit, containing Facility Specific Requirements (Compliance Plan), Inventories and Compliance Schedules can be obtained by contacting the Helpline number given below. RADIUS software, instructions, and help are available at the Department's website at https://dep.nj.gov/boss.

HELPLINE

The Operating Permit Helpline is available for any questions at (609) 633-8248 from 9:00 AM to 4:00 PM Monday to Friday.

RENEWING YOUR OPERATING PERMIT AND APPLICATION SHIELD

The permittee is responsible for submitting a timely and administratively complete operating permit renewal application pursuant to N.J.A.C. 7:27-22.30. Only applications which are timely and administratively complete are eligible for an application shield. The details on the contents of the renewal application, submittal schedule, and application shield are available in Section B - General Provisions and Authorities of this permit.

COMPLIANCE ASSURANCE MONITORING

Facilities that are subject to Compliance Assurance Monitoring (CAM), pursuant to 40 CFR 64, shall develop a CAM Plan for modified equipment as well as existing sources. The rule and guidance on how to prepare a CAM Plan can be found at EPA's website: https://www.epa.gov/air-emissions-monitoring-knowledge-base/compliance-assurance-monitoring. In addition, CAM Plans must be included as part of the permit renewal application. Facilities that do not submit a CAM Plan may have their permit applications denied, pursuant to N.J.A.C. 7:27-22.3.

ADMINISTRATIVE HEARING REQUEST

If, in your judgment, the Department is imposing any unreasonable condition of approval, you may contest the Department's decision and request an adjudicatory hearing pursuant to N.J.S.A. 52:14B-1 et seq. and N.J.A.C. 7:27-22.32(a). All requests for an adjudicatory hearing must be received in writing by the Department within 20 calendar days of the date you receive this letter. The request must contain the information specified in N.J.A.C. 7:27-1.32 and the information on the NJ04-Administrative Hearing Request Checklist and Tracking Form available at https://dep.nj.gov/wp-content/uploads/boss/applications-and-forms/administrative-hearing-request-checklist-and-tracking-form.pdf .

Revised: 12/19/2024

If you have any questions regarding this permit approval, please call Aliya M. Khan at (609) 940-5677.			
	Approved by:		
	David J. Owen		
Enclosure			

CC: Suilin Chan, United States Environmental Protection Agency, Region 2

Facility Name: UNIMAC GRAPHICS Program Interest Number: 02842 Permit Activity Number: BOP220001

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Section A

Facility Name: UNIMAC GRAPHICS Program Interest Number: 02842 Permit Activity Number: BOP220001

POLLUTANT EMISSIONS SUMMARY

Table 1: Total emissions from all Significant Source Operations¹ at the facility.

F	acility's P	otential E	missions f	rom all Si	gnificant S	Source Op	erations (1	tons per y	ear)	
Source Categories	VOC (total)	NO_x	СО	SO_2	TSP (total)	PM ₁₀ (total)	PM _{2.5} (total)	Pb	HAPs* (total)	CO_2e^2
Emission Units Summary	34.3	0.49	0.367	0.0025	0.039	0.035	0.035	N/A	N/A	
Batch Process	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Summary										
Group	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Summary										
Total Emissions	34.3	0.49	0.367	0.0025	0.039	0.035	0.035	N/A	N/A	1,365

Table 2: Estimate of total emissions from all Insignificant Source Operations¹ and total emissions from Non-Source Fugitives at the facility.

Emissions from	all Insigni	ficant Sou	rce Opera	tions and	Non-Sour	ce Fugitiv	e Emission	ns (tons p	er year)
Source Categories	VOC (total)	NO _x	СО	SO_2	TSP (total)	PM ₁₀ (total)	PM _{2.5} (total)	Pb	HAPs (total)
Insignificant Source Operations	0.011	0.175	0.147	N/A	N/A	N/A	N/A	N/A	N/A
Non-Source Fugitive Emissions	0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

VOC: Volatile Organic Compounds	TSP: Total Suspended Particulates	PM _{2.5} : Particulates under 2.5 microns
NOx: Nitrogen Oxides	Other: Any other air contaminant	Pb: Lead
CO: Carbon Monoxide	regulated under the Federal CAA	HAPs: Hazardous Air Pollutants
SO ₂ : Sulfur Dioxide	PM ₁₀ : Particulates under 10 microns	CO ₂ e: Carbon Dioxide equivalent
N/A: Indicates the pollutant is not emit	ted or is emitted below the reporting thres	hold specified in N.J.A.C. 7:27-22,
Appendix, Table A and N.J.A.C. 7:27-	17.9(a).	

^{*}Emissions of individual HAPs are provided in Table 3 on the next page. Emissions of "Other" air contaminants are provided in Table 4 on the next page.

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¹ Significant Source Operations and Insignificant Source Operations are defined at N.J.A.C. 7:27-22.1.

² Total CO₂e emissions for the facility.

Section A

Facility Name: UNIMAC GRAPHICS Program Interest Number: 02842 Permit Activity Number: BOP220001

POLLUTANT EMISSIONS SUMMARY

Table 3: Summary of Hazardous Air Pollutants (HAP) Emissions from Significant Source Operations ³:

HAP	TPY
N/A	N/A

Table 4: Summary of "Other" air contaminants emissions from Significant Source Operations:

Other Air Contaminant	TPY
N/A	N/A

³ Do not sum the values below for the purpose of establishing a total HAP potential to emit. See previous page for the allowable total HAP emissions.

Section B

Facility Name: UNIMAC GRAPHICS Program Interest Number: 02842 Permit Activity Number: BOP220001

GENERAL PROVISIONS AND AUTHORITIES

- 1. No permittee shall allow any air contaminant, including an air contaminant detectable by the sense of smell, to be present in the outdoor atmosphere in a quantity and duration which is, or tends to be, injurious to human health or welfare, animal or plant life or property, or which would unreasonably interfere with the enjoyment of life or property. This shall not include an air contaminant that occurs only in areas over which the permittee has exclusive use or occupancy. Requirements relative only to nuisance situations, including odors, are not considered federally enforceable. [N.J.A.C. 7:27-22.16(g)8]
- 2. Any deviation from operating permit requirements which results in a release of air contaminants shall be reported to the Department as follows:
 - a. If the air contaminants are released in a quantity or concentration which poses a potential threat to public health, welfare or the environment or which might reasonably result in citizen complaints, the permittee shall report the release to the Department:
 - i. Immediately on the Department hotline at 1-(877) 927-6337, pursuant to N.J.S.A. 26:2C-19(e); and
 - ii. As part of the compliance certification required in N.J.A.C. 7:27-22.19(f). However, if the deviation is identified through source emissions testing, it shall be reported through the source emissions testing and monitoring procedures at N.J.A.C. 7:27-22.18(e)3; or
 - b. If the air contaminants are released in a quantity or concentration which poses no potential threat to public health, welfare or the environment and which will not likely result in citizen complaints, the permittee shall report the release to the Department as part of the compliance certification required in N.J.A.C. 7:27-22.19(f), except for deviations identified by source emissions testing reports, which shall be reported through the procedures at N.J.A.C. 7:27-22.18(e)3; or
 - c. If the air contaminants are released in a quantity or concentration which poses no potential threat to public health, welfare, or the environment and which will not likely result in citizen complaints, and the permittee intends to assert an affirmative defense, consistent with General Provision #10 below, the violation shall be reported by 5:00 PM of the second full calendar day following the occurrence, or of becoming aware of the occurrence.
- 3. The permittee shall comply with all conditions of the operating permit including the approved compliance plan. Any non-compliance with a permit condition constitutes a violation of the New Jersey Air Pollution Control Act N.J.S.A. 26:2C-1 et seq., or the CAA, 42 U.S.C. §7401 et seq., or both, and is grounds for enforcement action; for termination, revocation and reissuance, or for modification of the operating permit; or for denial of an application for a renewal of the operating permit. [N.J.A.C. 7:27-22.16(g)1]
- 4. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of its operating permit. [N.J.A.C. 7:27-22.16(g)2]
- 5. This operating permit may be modified, terminated, or revoked for cause by the EPA pursuant to 40 CFR 70.7(g) and revoked or reopened and modified for cause by the Department pursuant to N.J.A.C. 7:27-22.25. [N.J.A.C. 7:27-22.16(g)3]

- 6. The permittee shall furnish to the Department, within a reasonable time, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this operating permit; or to determine compliance with the operating permit. [N.J.A.C. 7:27-22.16(g)4]
- 7. The filing of an application for a modification of an operating permit, or of a notice of planned changes or anticipated non-compliance, does not stay any operating permit condition. [N.J.A.C. 7:27-22.16(g)5]
- 8. The operating permit does not convey any property rights of any sort, or any exclusive privilege. [N.J.A.C. 7:27-22.16(g)6]
- 9. Upon request, the permittee shall furnish to the Department copies of records required by the operating permit to be kept. [N.J.A.C. 7:27-22.16(g)7]
- 10. The permittee may not assert an affirmative defense to penalty liability for non-compliance with a provision or condition of the operating permit that is based on any federally delegated regulation, including but not limited to NSPS, NESHAP, or MACT. An affirmative defense to penalty liability for non-compliance with a provision or condition of the operating permit may be asserted by a permittee if:
 - a. The provision or condition of the operating permit is based solely on State or local law; and
 - b. The affirmative defense is asserted and established as required by N.J.S.A. 26:2C-19.1 through 19.5.
- 11. In the event of a challenge to any part of this operating permit, all other parts of the permit shall continue to be valid. [N.J.A.C. 7:27-22.16(f)]
- 12. Each owner and each operator of any facility, source operation, or activity to which this permit applies is responsible for ensuring compliance with all requirements of N.J.A.C. 7:27-22. If the owner and operator are separate persons, or if there is more than one owner or operator, each owner and each operator is jointly and severally liable for any fees due under N.J.A.C. 7:27-22, and for any penalties for violation of N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.3]
- 13. The permittee shall ensure that no air contaminant is emitted from any significant source operation at a rate, calculated as the potential to emit, that exceeds the applicable threshold for reporting emissions set forth in the Appendix to N.J.A.C. 7:27-22 or 7:27-17.9(a), unless emission of the air contaminant is authorized by this operating permit. [N.J.A.C. 7:27-22.3(c)]
- 14. Consistent with the provisions of N.J.A.C. 7:27-22.3(e), the permittee shall ensure that all requirements of this operating permit are met. In the event that there are multiple emission limitations, monitoring, recordkeeping, and/or reporting requirements for a given source operation, the facility must comply with all requirements, including the most stringent.
- 15. Consistent with the provisions of N.J.A.C. 7:27-22.3(s), Except as otherwise provided in this subchapter, the submittal of any information or application by a permittee including, but not limited to, an application or notice for any change to the operating permit, including any administrative amendment, any minor or significant modification, renewal, a notice of a seven-day notice change, a notice of past or anticipated noncompliance, does not stay any operating permit condition, nor relieve a permittee from the obligation to obtain other necessary permits and to comply with all applicable Federal, State, and local requirements.
- 16. Applicable requirements derived from an existing or terminated consent decree with EPA will not be changed without advance consultation by the Department with EPA. N.J.A.C. 7:27-22.3(uu).
- 17. Unless specifically exempted from permitting, temporary mobile equipment for short-term activities may be periodically used at major facilities, on site for up to 90 days if the requirements listed below, (a) through (h) are satisfied.
 - a. The permittee will ensure that the temporary mobile equipment will not be installed permanently or used permanently on site.

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- b. The permittee will ensure that the temporary mobile equipment will not circumvent any State or Federal rules and regulations, even for a short period of time, and the subject equipment will comply with all applicable performance standards.
- c. The permittee cannot use temporary mobile equipment unless the owner or operator of the subject equipment has obtained and maintains an approved Air Pollution Control Permit, issued pursuant to N.J.A.C. 7:27-8 or 22, prior to bringing the temporary mobile equipment to operate at the major facility.
- d. The permittee is responsible for ensuring the temporary mobile equipment's compliance with the terms and conditions specified in its approved Air Pollution Control Permit when the temporary mobile equipment operates on the property of the permittee.
- e. The permittee will ensure that temporary mobile equipment utilized for short-term activities will not operate on site for more than a total of 90 days during any calendar year.
- f. The permittee will keep on site a list of temporary mobile equipment being used at the facility with the start date, end date, and record of the emissions from all such equipment (amount and type of each air contaminant) no later than 30 days after the temporary mobile equipment completed its job in accordance with N.J.A.C. 7:27-22.19(i)3.
- g. Emissions from the temporary mobile equipment must be included in the emission netting analysis required of the permittee by N.J.A.C. 7:27-18.7. This information is maintained on site by the permittee and provided to the Department upon request in accordance with existing applicable requirements in the FC Section of its Title V permit.
- h. Where short-term activities (employing temporary mobile equipment) will reoccur on at least an annual basis, the permittee is required to include such activities (and the associated equipment) within one year of the first use, in its Title V permit through the appropriate modification procedures.
- 18. Consistent with the provisions of N.J.A.C. 7:27-22.9(c), the permittee shall use monitoring of operating parameters, where required by the compliance plan, as a surrogate for direct emissions testing or monitoring, to demonstrate compliance with applicable requirements.
- 19. The permittee is responsible for submitting timely and administratively complete operating permit applications:

Administrative Amendments [N.J.A.C. 7:27-22.20(c)]; Seven-Day Notice changes [N.J.A.C. 7:27-22.22(e)]; Minor Modifications [N.J.A.C. 7:27-22.23(e)]; Significant Modifications [N.J.A.C. 7:27-22.24(e)]; and Renewals [N.J.A.C. 7:27-22.30(b).

- 20. The operating permit renewal application consists of a RADIUS application and the application attachment available at the Department's website https://dep.nj.gov/boss/applications-and-forms/ (Attachment to the RADIUS Operating Permit Renewal Application). Both the RADIUS application and the Application Attachment, along with any other supporting documents must be submitted using the Department's Portal at: https://njdeponline.com/. The application is considered timely if it is received at least 12 months before the expiration date of the operating permit. To be deemed administratively complete, the renewal application shall include all information required by the application form for the renewal and the information required pursuant to N.J.A.C. 7:27-22.30(d). However, consistent with N.J.A.C. 7:27-22.30(c), the permittee is encouraged to submit the renewal application at least 15 months prior to expiration of the operating permit, so that any deficiencies can be identified and addressed to ensure that the application is administratively complete by the renewal deadline. Only renewal applications which are timely and administratively complete are eligible for an application shield.
- 21. For all source emissions testing performed at the facility, the phrase "worst case conditions without creating an unsafe condition" used in the enclosed compliance plan is consistent with EPA's National Stack

Testing Guidance, dated April 27, 2009, where all source emission testing performed at the facility shall be under the representative (normal) conditions that:

- a. Represent the range of combined process and control measure conditions under which the facility expects to operate (regardless of the frequency of the conditions); and
- b. Are likely to most challenge the emissions control measures of the facility with regard to meeting the applicable emission standards, but without creating an unsafe condition.
- 22. Consistent with EPA's National Stack Testing Guidance and Technical Manual 1004, a facility may not stop an ongoing stack test because it would have failed the test unless the facility also ceases operation of the equipment in question to correct the issue. Stopping an ongoing stack test in these instances will be considered credible evidence of emissions non-compliance.
- 23. Each permittee shall maintain records of all source emissions testing or monitoring performed at the facility and required by the operating permit in accordance with N.J.A.C. 7:27-22.19. Records shall be maintained, for at least five years from the date of each sample, measurement, or report. Each permittee shall maintain all other records required by this operating permit for a period of five years from the date each record is made. At a minimum, source emission testing or monitoring records shall contain the information specified at N.J.A.C. 7:27-22.19(b). [N.J.A.C. 7:27-22.19(a) and N.J.A.C. 7:27-22.19(b)]
- A Permittee may seek the approval of the Department for a delay in testing required pursuant to this permit by submitting a written request to the appropriate Regional Enforcement Office in accordance with N.J.A.C. 7:27-22.18(k). A Permittee may also seek advanced approval for a longer period for submittal of a source emissions test report required by the permit by submitting a request to the Department's Regional Enforcement Office in accordance with N.J.A.C. 7:27-22.19. [N.J.A.C. 7:27-22.18(k) and N.J.A.C. 7:27-22.19]
- 25. Any emission limit values in an operating permit shall be interpreted to be followed by inherent trailing zeros (0) in the decimal portion of the limit to three significant figures (e.g. a printed limit of "1 lb/hr" means a limit of "1.00 lb/hr") except for concentration limits less than 10 parts per million (ppm). For such concentration limits, the emission limit shall be interpreted to be followed by inherent trailing zeros (0) in the decimal portion of the limit to two significant figures (e.g. a printed limit of "1 ppm" means a limit of "1.0 ppm").
- 26. Testing every five years shall be defined as no later than the end of the 60th month after the first required and each subsequent stack test was completed for the new or modified source.

Section C

Facility Name: UNIMAC GRAPHICS Program Interest Number: 02842 Permit Activity Number: BOP220001

STATE-ONLY APPLICABLE REQUIREMENTS

N.J.A.C. 7:27-22.16(b)5 requires the Department to specifically designate as not being federally enforceable any permit conditions based only on applicable State requirements. The applicable State requirements to which this provision applies are listed in the table titled "State-Only Applicable Requirements."

STATE-ONLY APPLICABLE REQUIREMENTS

The following applicable requirements are not federally enforceable:

<u>REF. #</u>	ITEM#	SUBJECT ITEM	<u>SECTION</u>
	1		В
	10b		В
3		FC	D
9		FC	D

Section D

Facility Name: UNIMAC GRAPHICS Program Interest Number: 02842 Permit Activity Number: BOP220001

FACILITY SPECIFIC REQUIREMENTS AND INVENTORIES

FACILITY SPECIFIC REQUIREMENTS PAGE INDEX

Subje	ct Item and Na	<u>me</u>	Page	Number
Facility	<u>(FC):</u>			
	FC			1
Insigni	ficant Sources (IS)	<u>:</u>		
	IS NJID	IS Description		
•	IS1	HVAC Systems, Space He 1 MMBtu/hr Heat Input)	aters and Hotwater Heaters (Natural Gas Only, Eac	ch < 7
Emissio	on Units (U):			
	U NJID	U Designation	U Description	
· -	U1	UNIMAC	The entire printing operation	8

BOP220001

New Jersey Department of Environmental Protection Reason for Application

Permit Being Modified

Permit Class: BOP Number: 220002

Description

In accordance with N.J.A.C. 7:27-22.30, Unimac Graphics hereby submits this 5-year of Modifications: Renewal Application to renew the Title V Operating Permit for its facility located in Carlstadt, NJ. Unimac Graphics believes this submittal is both timely and administratively complete in accordance with Title V Renewal regulations.

Date: 5/21/2025

Timeliness - The Title V Operating Permit is due to expire November 11, 2023. In accordance with N.J.A.C. 7:27-22.30(c), this renewal application is being submitted at least 12-months prior to expiration, in order to be eligible for coverage by an application shield. Completeness - Unimac Graphics believes this submittal is administratively complete and includes the following:

- 1. RADIUS Application created from a new, blank "5-year Renewal" RADIUS file;
- 2. Application Attachment completed and certified on-line as Attachment 1;
- 3. Summary of Requested Minor Changes provided as Attachment 2;
- 4. HAP/Health Risk Assessment provided as Attachment 3;
- 5. CAM Plan provided as Attachment 4; 6. Fee Online payment, as available.

Permit data Brought Forward from BOP220002

New Jersey Department of Environmental Protection Facility Specific Requirements

Date: 5/21/2025

Subject Item: FC

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	General Provisions: The permittee shall comply with all applicable provisions of N.J.A.C. 7:27-1. [N.J.A.C. 7:27-1]	None.	None.	None.
2	Control and Prohibition of Open Burning: The permittee is prohibited from open burning of rubbish, garbage, trade waste, buildings, structures, leaves, other plant life and salvage. Open burning of infested plant life or dangerous material may only be performed with a permit from the Department. [N.J.A.C. 7:27-2]	None.	None.	Obtain an approved permit: Prior to occurrence of event (prior to open burning). [N.J.A.C. 7:27-2]
3	Prohibition of Air Pollution: The permittee shall not emit into the outdoor atmosphere substances in quantities that result in air pollution as defined at N.J.A.C. 7:27-5.1. [N.J.A.C. 7:27-5]	None.	None.	None.
4	Prevention and Control of Air Pollution Control Emergencies: Any person responsible for the operation of a source of air contamination set forth in Table 1 of N.J.A.C. 7:27-12 is required to prepare a written Standby Plan, consistent with good industrial practice and safe operating procedures, and be prepared for reducing the emission of air contaminants during periods of an air pollution alert, warning, or emergency. Any person who operates a source not set forth in Table 1 of N.J.A.C. 7:27-12 is not required to prepare such a plan unless requested by the Department in writing. [N.J.A.C. 7:27-12]	None.	None.	Comply with the requirement: Upon occurrence of event. Upon proclamation by the Governor of an air pollution alert, warning, or emergency, the permittee shall put the Standby Plan into effect. In addition, the permittee shall ensure that all of the applicable emission reduction objectives of N.J.A.C. 7:27-12.4, Table I, II, and III are complied with whenever there is an air pollution alert, warning, or emergency. [N.J.A.C. 7:27-12]
5	Emission Offset Rules: The permittee shall comply with all applicable provisions of Emission Offset Rules. [N.J.A.C. 7:27-18]	None.	None.	None.
6	Emission Statements: The permittee shall comply with all the applicable provisions of N.J.A.C. 7:27-21. [N.J.A.C. 7:27-21]	None.	None.	None.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Compliance Certification: The permittee shall submit an annual Compliance Certification for each applicable requirement, pursuant to N.J.A.C. 7:27-22.19(f). [N.J.A.C. 7:27-22]	None.	None.	Submit an Annual Compliance Certification: Annually to the Department and to EPA within 60 days after the end of each calendar year during which this permit was in effect. The Compliance Certification shall be certified pursuant to N.J.A.C. 7:27-1.39 by the responsible official and submitted electronically through the NJDEP online web portal. The certification should be printed for submission to EPA. The NJDEP online web portal can be accessed at: http://www.state.nj.us/dep/online/. The Compliance Certification forms and instructions for submitting to EPA are available by selecting Documents and Forms and then Periodic Compliance Certification. [N.J.A.C. 7:27-22]
8	Prevention of Air Pollution from Consumer Products and Architectural Coatings: The permittee shall comply with all applicable provisions of N.J.A.C. 7:27-24 and [N.J.A.C. 7:27-23]	None.	None.	None.
9	Any operation of equipment which causes off-property effects, including odors, or which might reasonably result in citizen's complaints shall be reported to the Department to the extent required by the Air Pollution Control Act, N.J.S.A. 26:2C-19(e). [N.J.S.A. 26: 2C-19(e)]	Other: Observation of plant operations. [N.J.S.A. 26: 2C-19(e)].	Other: Maintain a copy of all information submitted to the Department. [N.J.S.A. 26: 2C-19(e)].	Notify by phone: Upon occurrence of event. A person who causes a release of air contaminants in a quantity or concentration which poses a potential threat to public health, welfare or the environment or which might reasonably result in citizen complaints shall immediately notify the Department. Such notification shall be made by calling the Environmental Action Hotline at (877) 927-6337. [N.J.S.A. 26: 2C-19(e)]
10	Prevention of Significant Deterioration: The permittee shall comply with all applicable provisions of Prevention of Significant Deterioration (PSD). [40 CFR 52.21]	None.	None.	None.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement			
11	The permittee shall comply with all applicable provisions of National Emission Standards for Hazardous Air Pollutants (NESHAPS) for Asbestos, Subpart M. [40 CFR 61]	Other: Comply with 40 CFR 61.145 and 61.150 when conducting any renovation or demolition activities at the facility. [40 CFR 61].	Other: Comply with 40 CFR 61.153 when conducting any renovation or demolition activities at the facility. [40 CFR 61].	Comply with the requirement: Upon occurrence of event. The permittee shall comply with 40 CFR 61.153 when conducting any renovation or demolition activities at the facility. [40 CFR 61]			
12	Protection of Stratospheric Ozone:1) If the permittee manufactures, transforms, destroys, imports, or exports a Class I or Class II substance, the permittee is subject to all the requirements as specified at 40 CFR 82, Subpart A; 2) If the permittee performs a service on motor "fleet" vehicles when this service involves an ozone depleting substance refrigerant (or regulated substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified at 40 CFR 82, Subpart B. 3) The permittee shall comply with the standards for labeling of products containing or manufactured with ozone depleting substances pursuant to 40 CFR 82, Subpart E. 4). The permittee shall comply with the standards for recycling and emission reductions of Class I and Class II refrigerants or a regulated substitute substance during the service, maintenance, repair, and disposal of appliances pursuant to 40 CFR 82, Subpart F, except as provided for motor vehicle air conditioners (MVACs) in Subpart B. 5) The permittee shall be allowed to switch from any ozone depleting substance to any alternative that is listed in the Significant New Alternative Program (SNAP) promulgated pursuant to 40 CFR 82, Subpart G. [40 CFR 82]	Other: Comply with 40 CFR 82 Subparts A, B, E, F, and G. [40 CFR 82].	Other: Comply with 40 CFR 82 Subparts A, B, E, F, and G. [40 CFR 82].	Comply with the requirement: Upon occurrence of event. The permittee shall comply with 40 CFR 82 Subparts A, B, E, F, and G. [40 CFR 82]			

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	Deviation Reports: The permittee shall submit to the Department a certified six-month Deviation Report relating to testing and monitoring required by the operating permit. [N.J.A.C. 7:27-22.19(d)3], [N.J.A.C.7:27-22.19(e)], and [N.J.A.C. 7:27-22.19(c)]	None.	Other: The permittee shall maintain deviation reports for a period of five years from the date each report is submitted to the Department. [N.J.A.C.7:27-22.19(a)] and [N.J.A.C. 7:27-22.19(e)].	Submit a report: As per the approved schedule. The six-month deviation reports for the period from January 1 through June 30 shall be submitted by July 30 of the same calendar year, and for the period from July 1 through December 31, shall be submitted by January 30 of the following calendar year. The annual compliance certification required by N.J.A.C.7:27-22.19(f) may also be considered as your six-month Deviation Report for the period from July 1 – December 31, if submitted by January 30 of the following calendar year. The reports shall be certified pursuant to N.J.A.C. 7:27-1.39 by the responsible official and submitted electronically through the NJDEP online web portal. The NJDEP online web portal can be accessed at: http://www.state.nj.us/dep/online/. The Compliance Certification forms are
				available by selecting Documents and Forms and then Periodic Compliance Certification. [N.J.A.C. 7:27-22]
14	Used Oil Combustion: No person shall combust used oil except as authorized pursuant to N.J.A.C. 7:27-20. [N.J.A.C. 7:27-20.2]	None.	None.	Comply with the requirement: Prior to occurrence of event (prior to burning used oil) either register with the Department pursuant to N.J.A.C. 7:27-20.3 or obtain a permit issued by the Department pursuant to N.J.A.C. 7:27-8 or 7:27-22, whichever is applicable. [N.J.A.C. 7:27-20.2(d)]
15	Prevention of Accidental Releases: Facilities producing, processing, handling or storing a chemical, listed in the tables of 40 CFR Part 68.130, and present in a process in a quantity greater than the listed Threshold Quantity, shall comply with all applicable provisions of 40 CFR 68. [40 CFR 68]	Other: Comply with 40 CFR 68. [40 CFR 68].	Other: Comply with 40 CFR 68. [40 CFR 68].	Other (provide description): Other. Comply with 40 CFR 68 as described in the Applicable Requirement. [40 CFR 68]

New Jersey Department of Environmental Protection Facility Specific Requirements

Date: 5/21/2025

	racinty Specific Requirements				
Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	
16	The Department and its authorized representatives shall have the right to enter and inspect any activity subject to N.J.A.C. 7:27-22, or portion thereof, pursuant to N.J.A.C. 7:27-1.31. [N.J.A.C. 7:27-22.16(g)9]	None.	None.	None.	
17	The permittee shall pay fees to the Department pursuant to N.J.A.C. 7:27. [N.J.A.C. 7:27-22.16(g)10]	None.	None.	None.	
18	Each permittee shall meet all requirements of the approved source emissions testing and monitoring protocol during the term of the operating permit. Whenever the permittee makes a replacement, modification, change or repair of a certified CEMS or COMS that may significantly affect the ability of the system to accurately measure or record data, the permittee must recertify the CEMS or COMS in accordance with Section V.B. and Appendix E of Technical Manual 1005. The permittee is responsible for any downtime associated with the replacement, modification, change or repair of the CEMS or COMS. [N.J.A.C. 7:27-22.18(j)]	None.	None.	Comply with the requirement: Upon occurrence of event. The permittee is responsible for contacting the Emission Measurement Section to determine the need for recertification and/or to initiate the recertification process. [N.J.A.C. 7:27-22.18(j)]	
19	Each process monitor must be operated at all times when the associated process equipment is operating except during service outage time not to exceed 24 hours per calendar quarter. [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permittee must keep a service log to document any outage. [N.J.A.C. 7:27-22.16(o)]	None.	
20	Continuous recording for process monitors must be at a sufficient frequency and resolution to be able to document compliance or non-compliance in accordance with Technical Manual 1005 for CEMS (TM1005(B)(3). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.	

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Date: 5/21/2025

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	If an operating permit has expired, the conditions of the operating permit, including the requirements for stack testing, remain enforceable until the operating permit is reissued. [N.J.A.C. 7:27-22.30(j)] and [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection Facility Specific Requirements

Subject Item: IS1 HVAC Systems, Space Heaters and Hotwater Heaters (Natural Gas Only, Each < 1 MMBtu/hr Heat Input)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity: The Permittee shall not cause, suffer, allow or permit visible smoke to be emitted into the outdoor air from the combustion of fuel in the boiler, except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27- 3.2]		None.	None.

New Jersey Department of Environmental Protection

Facility Specific Requirements

Date: 5/21/2025

Emission Unit: U1 The entire printing operation Subject Item: CD2 TANN 8000 scfm RTO

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The RTO, CD2, shall maintain operation when the heatset web press is in operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	The RTO, CD2, shall not be shutdown until all air contaminants have been purged from the air handling systems after source shutdown. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	The RTO, CD2, shall be operated as per manufacturer specifications. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Temperature at Exit of Combustion Chamber >= 1,500 degrees F. The thermal oxidizer shall be operated so that gases entering the unit shall have a minimum residence time of 0.5 seconds at 1500 degrees F. [N.J.A.C. 7:27-22.16(a)]	Temperature at Exit of Combustion Chamber: Monitored by temperature instrument continuously, based on 1 minute intervals. An alarm or other operational warning system shall be installed, properly shielded from direct contact with the flame and shall be designed to sound when temperatures less than the permitted operating temperature are detected at any time. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Temperature at Exit of Combustion Chamber: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
5	VOC Control Efficiency >= 96.5 %. The thermal oxidizer shall operate and demonstrate a minimum destruction and removal efficiency (DRE) of 96.5%. [N.J.A.C. 7:27-16.7(r)(1)(i)] &. [N.J.A.C. 7:27-22.16(a)]	VOC Control Efficiency: Monitored by stack emission testing once initially and prior to the expiration of the renewed operating permit based on each of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	VOC Control Efficiency: Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule Refer to U1 OS Summary for details. [N.J.A.C. 7:27-22.16(o)]

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New Jersey Department of Environmental Protection Facility Specific Requirements

Date: 5/21/2025

Emission Unit: U1 The entire printing operation

Operating Scenario: OS Summary

	Tuemty Specific Requirements			
Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
Ref.# 2	Applicable Requirement On or after May 19, 2009, no person shall cause, suffer, allow, or permit the use of any flat wood paneling coating, printed hardwood coating, or lithographic, letterpress, rotogravure, sheet-fed gravure or flexographic printing operation without implementing the following best management practices: 1. All coatings, thinners, and cleaning materials containing any VOC shall be stored in closed containers, which shall prevent the contents from coming in contact with and being exposed to the atmosphere; 2. All coatings, thinners, and cleaning materials containing any VOC shall be conveyed in closed containers or pipes, which shall prevent the contents from coming in contact with and being exposed to the atmosphere; 3. Each mixing vessel containing any VOC coating and any other material shall have	ν τ	Recordkeeping Requirement Other: Record and maintain on-site, logs of the implementation of the best management practices required at N.J.A.C. 7:27-16.7 (t)1 through 5, pursuant to N.J.A.C. 7:27-16.22.[N.J.A.C. 7:27-16.7(t)6].	None.
	a cover which is closed, which shall prevent the contents from coming in contact with and being exposed to the atmosphere except when adding to, removing from, or mixing in the vessel; 4. All used shop towels containing any VOC shall be kept in closed containers, which shall prevent the contents from coming in contact with and being exposed to the atmosphere; 5. All coatings, thinners and cleaning material spills containing any VOC shall be cleaned up immediately [N.J.A.C. 7:27-16.7(t)]			

New Jersey Department of Environmental Protection Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	VOC (Total) <= 34.3 tons/yr. (any 12 consecutive month period) for all presses combined, and will include VOC emissons from all Printing and Cleaning scenarios. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by material balance each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The actual VOC emissions shall be calculated monthly and shall be based on the quantity, VOC content, and emission factor of each ink, varnish, aqueous coating, fountain solution and cleaning solution formulation used for all the presses, excluding the heat set press. The VOC emissions from the heat set press shall also be calculated monthly and added monthly to the total for all other presses and will be based on the quantity, VOC content, emission factor and destruction efficiency of control devise of each ink, coating, fountain solution and cleaning solution formulation used. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
4	NOx (Total) <= 0.49 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 0.367 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Opacity <= 20 %. For Emission Point PT2, no person shall cause, suffer, allow or permit particles to be emitted from any stack or chimney into the outdoor air the shade or appearance of which is greater than 20 percent opacity, exclusive of condensed water vapor, except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] &. [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
7	Opacity: For Emission Point PT2, the permittee shall not use the equipment in a manner that will cause visible emissions, exclusive of condensed water vapor, except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	Opacity: Monitored by visual determination upon request of the Department, based on a 1 hour block average. [N.J.A.C. 7:27-22.16(o)]	Opacity: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	The permittee shall submit to the permitting authority a Compliance Assurance Monitoring (CAM) plan that satisfies the requirements of 40 CFR 64.3 for the RTO (CD2) to control VOC emitted from the heatset web press, the KBA. The submission shall include the following information: (1) The indicators to be monitored to satisfy 40 CFR 64.3(a)(1) - (2); (2) The ranges or designed conditions for such indicators, or the process by which such indicator ranges or designated conditions shall be established; (3) The performance criteria for the monitoring to satisfy 40 CFR 64.3(b); and (4) If applicable, the indicator ranges and performance criteria for a continuous emission monitoring system (CEMS), continuous opacity monitoring system (COMS) or predictive emission monitoring system (PEMS) pursuant to 40 CFR 64.3(d). [40 CFR 64.4(a)]	None.	None.	None.
9	Coating Usage: The following Facility-Wide Coating Scaler Factor (FWCSF) shall be calculated as follows: SUM [(E12imp*1.05), (E20imp*1.0), (E21imp*1.68), (E22imp*2.09), (E24imp*1.68)] where: E12imp is the number of impressions made in E12, E20imp is the number of impressions made in E20, E21imp is the number of impressions made in E21, E22imp is the number of impressions made in E22, E24imp is the number of impressions made in E22, E24imp is the number of impressions made in E24. [N.J.A.C. 7:27-22.16(a)]	Coating Usage: Monitored by calculations each month during operation, based on one calendar month. The FWCSF, which is based on the number of impressions made monthly in E12, E20, E21, E22, and E24, shall be monitored monthly. [N.J.A.C. 7:27-22.16(o)]	Coating Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The FWCSF, which is based on the number of impressions made monthly in E12, E20, E21, E22, and E24, shall be recorded monthly. [N.J.A.C. 7:27-22.16(o)]	

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	VOC (Total): The Facility Wide VOC emissions from the use of Coatings (FWVOCCOAT) shall be calculated. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on one calendar month. Calculations shall be done for each type of coating applied at each press. Weight of VOC shall be determined by multiplying the weight of each coating type applied by the VOC content of the coating in percent by weight. [N.J.A.C. 7:27-22.22(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation Maintain records of the following: a. The VOC content/density and amount of each Coating, as applied. b. The weight of VOC as applied calculated with the data generated in a. above. c. The trade name, SDS sheets of each Coating, as applied. Records should be readily available to NJDEP and USEPA upon request. [N.J.A.C. 7:27-22.16(o)]	
11	VOC (Total): The Sheet Fed Presses VOC emissions from Usage of Fountain Solutions (SFPVOCFS) shall be calculated for the following equipment: E12, E20, E21, E22, and E24. The Fountain Solution emisions shall include the use of both fountain solution concentrate and fountain solution alcohol replacement. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on one calendar month. Calculations shall be done for each type of fountain solution used at each press. Weight of VOC shall be determined by multiplying the weight of each fountain solution used by the VOC content of the fountain solution in percent by weight. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Maintain records of the following: a. The VOC content/density and amount of each fountain solution, as used. b. The weight of VOC as applied calculated with the data generated in a. above. c. The trade name, SDS sheets of fountain solution, as used. Records should be readily available to NJDEP and USEPA upon request. [N.J.A.C. 7:27-22.16(o)]	

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	VOC (Total): The Facility Wide VOC	VOC (Total): Monitored by calculations	VOC (Total): Recordkeeping by manual	
	emissions from the usage of Cleaning	each month during operation, based on one	logging of parameter or storing data in a	
	Solvents (FWVOCCS) shall be calculated.	calendar month. Calculations shall be	computer data system each month during	
	The VOC release factor for conforming	done for each type of cleaning solvent used	operation. Maintain records of the	
	cleaning solvents shall be 0.5. The VOC	at each press. Weight of VOC shall be	following:	
	release factor for non-conforming cleaning	determined by multiplying the weight of each		
	solvents shall be 1.	cleaning solvent used by the VOC content	a. The VOC content/density and amount of	
		of the cleaning solvent in percent by weight.	each cleaning solvent, as used.	
	Conforming cleaning solvents shall:	[N.J.A.C. 7:27-22.16(o)]	b. The weight of VOC as applied calculated	
			with the data generated in a. above.	
	i.Have a composite VOC vapor pressure		c. The trade name, SDS sheets of cleaning	
	less than 10 mm Hg at 20 degrees Celsius; or		solvent, as used.	
	ii.Have a VOC content of less than 70		Records should be readily available to	
	percent by weight. [N.J.A.C. 7:27-22.16(a)]		NJDEP and USEPA upon request. [N.J.A.C. 7:27-22.16(o)]	

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
Ref. # 13	VOC (Total) <= 4.9 tons/yr The annual VOC emissions from E12 shall be determined by the following equation (all weights shall be in pounds and all factors are as determined in the Applicable Requirements in this section)): {[(VOCINK E12) *(0.05)] + [(FWVOCCOAT) * [(E12imp*1.05)/(FWCSF)] + [[SFPVOCFS) x (E12ink/SFPIU)] + [(FWVOCCS) * (E12imp*1.81)/(FWSSF)]}/2,000 VOCINK E12 is the weight of VOC in ink applied in E12. FWVOCCOAT is the Facility Wide VOC emissions from the use of Coatings. E12imp is number of impressions done by E12; and E12ink is pounds of ink used by E12. FWCSF is the Facility Wide Coating Scaler Factor.	Monitoring Requirement VOC (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). Calculations shall inlcude E12imp, number of impressions made in E12 in each calendar month and E12ink, number of pounds of ink applied in E12 in each calendar month. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping Requirement VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	Submittal/Action Requirement
	SFPVOCFS is the Sheet Fed Presses VOC emissions from the use of Foutain Solutions.			
	SFPIU is the Total Ink Usage in pounds for the Sheet Fed Presses (E12, E20, E21, E22, E24)			
	FWVOCCS is the Facility Wide VOC emissions from the usage of cleaning solvents.			
	FWSSF is the Facility-Wide Solvent Scaler Factor. [N.J.A.C. 7:27-22.16(a)]			

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	Ink Usage: The total ink usage from sheet fed presses (SFPIU) shall be calculated. This shall be the total ink used in E12, E20, E21, E22, and E24. [N.J.A.C. 7:27-22.16(a)]	Monitored by calculations each month during operation, based on one calendar month. The amount of ink used by each press at the facility shall be monitored based on the number of impressions made, type(s) of ink(s) used for each impression, maximum sheet length and width of each press or by direct monitoring of inks issued to each press. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The amount of ink used by each press at the facility shall be recorded based on the number of impressions made, type(s) of ink(s) used for each impression, maximum sheet length and width of each press or by direct recordig of inks issued to each press. [N.J.A.C. 7:27-22.16(o)]	
15	Weight of VOC in inks: The weight of VOC in inks applied in E12 (designated as VOCINK E12) in pounds shall be calculated. [N.J.A.C. 7:27-22.16(a)]	Monitored by calculations each month during operation, based on one calendar month. Calculations shall be done for each type of ink applied. Weight of VOC shall be determined by multiplying the weight of each ink type applied by the VOC content of the ink in percent by weight. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Maintain records of the following: a. The VOC content/density and amount of each Conventional ink, and UV ink, as applied. b. The weight of VOC as applied calculated with the data generated in a. above. c. The trade name, SDS sheets of each Conventional ink, and UV ink, as applied. Records should be readily available to NJDEP and USEPA upon request. [N.J.A.C. 7:27-22.16(o)]	

	racinty specific requirements			
Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	Total Throughput <= 5,000 lb/yr. No more than 5,000 pounds per year of coatings cumulatively applied in E11, E12, E20, E21, E22, E23 and E24 shall have a VOC content of greater than 2.5% by weight and less than or equal to 6% by weight. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations daily, based on an instantaneous determination. The following shall be monitored when any High VOC Coating with a VOC Content greater than 2.5% by weight and less than 6% by weight is used: weight of High VOC coating used, VOC content in High VOC coating used, and equipment which processed the High VOC Coating. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event The following shall be recorded when any VOC Coating with a VOC Content greater than 2.5% by weight and less than 6% by weight is used: 1. weight of High VOC coating used hourly and daily; 2. VOC content in Hight VOC coating used,; 3. equipment which processed the High VOC Coating; 4. the trade name and SDS sheet of each High VOC Coating. 5. How any applicable VOC emission limits were complied with while using the coating with a VOC Content greater than 2.5% and less than 6%. [N.J.A.C. 7:27-22.16(o)]	
17	The following Facility-Wide Solvent Scaler Factor (FWSSF) shall be calculated as follows: SUM [(E11imp*1.13), (E12imp*1.81), (E20imp*1.0), (E21imp*1.34), (E22imp*1.83), (E23imp*0.37), (E24imp*1.68)] where: E11imp is the number of impressions made in E11, E12imp is the number of impressions made in E12, E20imp is the number of impressions made in E20, E21imp is the number of impressions made in E21, E22imp is the number of impressions made in E21, E22imp is the number of impressions made in E22, E23imp is the number of impressions made in E23, E24imp is the number of impressions made in E24. [N.J.A.C. 7:27-22.16(a)]	Monitored by calculations each month during operation, based on one calendar month. The FWSSF, which is based on the number of impressions made monthly in E11, E12, E20, E21, E22, E23, and E24, shall be monitored monthly. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The FWSSF, which is based on the number of impressions made monthly in E11, E12, E20, E21, E22, E23, and E24, shall be recorded monthly. [N.J.A.C. 7:27-22.16(o)]	

	Tuenty Specific Requirements				
Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	
18	VOC (Total) <= 4.9 tons/yr The annual VOC emissions from E20 shall be determined by the following equation (all weights shall be in pounds and all factors are as determined in the Applicable Requirements in this section)): {[(VOCINK E20) *(0.05)] + [(FWVOCCOAT) * [(E20imp*1.00)/(FWCSF)] + [[SFPVOCFS) * (E20ink/SFPIU)] + [(FWVOCCS) * (E20imp*1.00)/(FWSSF)]}/2,000 VOCINK E20 is the weight of VOC in ink applied in E20. FWVOCCOAT is the Facility Wide VOC emissions from the use of Coatings. E20imp is number of impressions done by E20; and E20ink is pounds of ink used by E20. FWCSF is the Facility Wide Coating Scaler Factor. SFPVOCFS is the Sheet Fed Presses VOC emissions from the use of Foutain Solutions. SFPIU is the Total Ink Usage in pounds for the Sheet Fed Presses (E12, E20, E21, E22, E24) FWVOCCS is the Facility Wide VOC emissions from the usage of cleaning solvents.	VOC (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). Calculations shall inleude E20imp, number of impressions made in E20 in each calendar month and E20ink, number of pounds of ink applied in E20 in each calendar month. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]		

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	Weight of VOC in inks: The weight of VOC in inks applied in E20 (designated as	Monitored by calculations each month during operation, based on one calendar	Recordkeeping by manual logging of parameter or storing data in a computer data	
	VOCINK E20) in pounds shall be	month. Calculations shall be done for each	system each month during operation.	
	calculated. [N.J.A.C. 7:27-22.16(a)]	type of ink applied. Weight of VOC shall	Maintain records of the following:	
		be determined by multiplying the weight of		
		1 11 1	a. The VOC content/density and amount of	
		the ink in percent by weight. [N.J.A.C.	each Conventional ink, and UV ink, as	
		7:27-22.16(o)]	applied.	
			b. The weight of VOC as applied calculated	
			with the data generated in a. above.	
			c. The trade name, SDS sheets of each	
			Conventional ink, and UV ink, as applied.	
			Records should be readily available to NJDEP and USEPA upon request. [N.J.A.C. 7:27-22.16(o)]	

	Tuenty Specific Requirements				
Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	
Ref.# 20	Applicable Requirement VOC (Total) <= 4.9 tons/yr The annual VOC emissions from E21 shall be determined by the following equation (all weights shall be in pounds and all factors are as determined in the Applicable Requirements in this section)): {[(VOCINKE21) *(0.05)] + [(FWVOCCOAT) * [(E21imp*1.68)/(FWCSF)] + [[SFPVOCFS) * (E21ink/SFPIU)] + [(FWVOCCS) * (E21imp*1.34)/(FWSSF)]}/2,000 VOCINKE21 is the weight of VOC in ink applied in E21. FWVOCCOAT is the Facility Wide VOC emissions from the use of Coatings. E21imp is number of impressions done by E21; and E21ink is pounds of ink used by E21. FWCSF is the Facility Wide Coating Scaler Factor. SFPVOCFS is the Sheet Fed Presses VOC emissions from the use of Foutain Solutions. SFPIU is the Total Ink Usage in pounds for the Sheet Fed Presses (E12, E20, E21, E22, E24)	Monitoring Requirement VOC (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). Calculations shall inlcude E21imp, number of impressions made in E21 in each calendar month and E21ink, number of pounds of ink applied in E21 in each calendar month. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping Requirement VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	Submittal/Action Requirement	
	FWVOCCS is the Facility Wide VOC emissions from the usage of cleaning solvents.				
	FWSSF is the Facility-Wide Solvent Scaler Factor. [N.J.A.C. 7:27-22.16(a)]				

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	Weight of VOC in inks: The weight of VOC in inks applied in E21 (designated as	Monitored by calculations each month during operation, based on one calendar	Recordkeeping by manual logging of parameter or storing data in a computer data	
	VOCINK E21) in pounds shall be calculated. [N.J.A.C. 7:27-22.16(a)]	month. Calculations shall be done for each type of ink applied. Weight of VOC shall	system each month during operation. Maintain records of the following:	
		1 11 1	a. The VOC content/density and amount of	
		the ink in percent by weight. [N.J.A.C. 7:27-22.16(o)]	each Conventional ink, and UV ink, as applied.	
			b. The weight of VOC as applied calculated with the data generated in a. above.	
			c. The trade name, SDS sheets of each Conventional ink, and UV ink, as applied.	
			Records should be readily available to NJDEP and USEPA upon request. [N.J.A.C. 7:27-22.16(o)]	

New Jersey Department of Environmental Protection Facility Specific Requirements

Ref.#	Applicable Degrinement	Manitanina Daguinamant	Decoudlessain a Descriptor and	Submitted/Action Descripement
	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
22	VOC (Total) <= 4.9 tons/yr The annual VOC emissions from E22 shall be determined by the following equation (all weights shall be in pounds and all factors are as determined in the Applicable Requirements in this section)): {[(VOCINKE22) *(0.05)] + [(FWVOCCOAT) * [(E22imp*2.09/(FWCSF)] + [[SFPVOCFS) * (E22ink/SFPIU)] + [(FWVOCCS) * (E22imp*1.83)/(FWSSF)]}/2,000 VOCINKE22 is the weight of VOC in ink applied in E22. FWVOCCOAT is the Facility Wide VOC emissions from the use of Coatings. E22imp is number of impressions done by	VOC (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). Calculations shall inleude E22imp, number of impressions made in E22 in each calendar month and E22ink, number of pounds of ink applied in E22 in each calendar month. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	Submittal/Action Requirement
	E22; and E22ink is pounds of ink used by E22. FWCSF is the Facility Wide Coating Scaler Factor.			
	SFPVOCFS is the Sheet Fed Presses VOC emissions from the use of Foutain Solutions.			
	SFPIU is the Total Ink Usage in pounds for the Sheet Fed Presses (E12, E20, E21, E22, E24)			
	FWVOCCS is the Facility Wide VOC emissions from the usage of cleaning solvents.			
	FWSSF is the Facility-Wide Solvent Scaler Factor. [N.J.A.C. 7:27-22.16(a)]			

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
23	Weight of VOC in inks: The weight of	Monitored by calculations each month	Recordkeeping by manual logging of	
	VOC in inks applied in E22 (designated as	during operation, based on one calendar	parameter or storing data in a computer data	
	VOCINKE22) in pounds shall be calculated.	month. Calculations shall be done for each	system each month during operation.	
	[N.J.A.C. 7:27-22.16(a)]	type of ink applied. Weight of VOC shall	Maintain records of the following:	
		be detemined by multiplying the weight of		
		each ink type applied by the VOC content of	a. The VOC content/density and amount of	
		the ink in percent by weight. [N.J.A.C.	each Conventional ink, and UV ink, as	
		7:27-22.16(o)]	applied.	
			b. The weight of VOC as applied calculated	
			with the data generated in a. above.	
			c. The trade name, SDS sheets of each	
			Conventional ink, and UV ink, as applied.	
			Records should be readily available to	
			NJDEP and USEPA upon request. [N.J.A.C.	
			7:27-22.16(o)]	

New Jersey Department of Environmental Protection Facility Specific Requirements

			1	
Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	VOC (Total) <= 4.9 tons/yr The annual VOC emissions from E24 shall be determined by the following equation (all weights shall be in pounds and all factors are as determined in the Applicable Requirements in this section)): {[(VOCINKE24) *(0.05)] + [(FWVOCCOAT) * [(E24imp*1.68)/(FWCSF)] + [[SFPVOCFS) * (E24ink/SFPIU)] + [(FWVOCCS) * (E24imp*1.68)/(FWSSF)]}/2,000 VOCINKE24 is the weight of VOC in ink applied in E24. FWVOCCOAT is the Facility Wide VOC emissions from the use of Coatings. E24imp is number of impressions done by E24; and E24ink is pounds of ink used by E24. FWCSF is the Facility Wide Coating Scaler Factor. SFPVOCFS is the Sheet Fed Presses VOC emissions from the use of Foutain Solutions. SFPIU is the Total Ink Usage in pounds for the Sheet Fed Presses (E12, E20, E21, E22, E24) FWVOCCS is the Facility Wide VOC emissions from the usage of cleaning solvents. FWSSF is the Facility-Wide Solvent Scaler	VOC (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). Calculations shall inlcude E24imp, number of impressions made in E24 in each calendar month and E24nk, number of pounds of ink applied in E24 in each calendar month. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	

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New Jersey Department of Environmental Protection Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
25	Weight of VOC in inks: The weight of VOC in inks applied in E24 (designated as VOCINK E24) in pounds shall be calculated. [N.J.A.C. 7:27-22.16(a)]	Monitored by calculations each month during operation, based on one calendar month. Calculations shall be done for each type of ink applied. Weight of VOC shall be determined by multiplying the weight of each ink type applied by the VOC content of the ink in percent by weight. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Maintain records of the following: a. The VOC content/density and amount of each Conventional ink, and UV ink, as applied. b. The weight of VOC as applied calculated with the data generated in a. above. c. The trade name, SDS sheets of each Conventional ink, and UV ink, as applied. Records should be readily available to NJDEP and USEPA upon request. [N.J.A.C. 7:27-22.16(o)]	
26	VOC (Total) <= 4.9 tons/yr The annual VOC emissions from E23 shall be determined by the following equation (all weights shall be in pounds and all factors are as determined in the Applicable Requirements in this section)): {[(VOCINK E23) *(0.05)] + [FSVOCE23] + [(FWVOCCS) * (E23imp*0.37)/(FWSSF)]}/2,000 VOCINK E23 is the weight of VOC in ink applied in E23. E23imp is number of impressions done by E23; FSVOCE23 is the VOC emissions from the use of fountain solutions in E23 FWVOCCS is the Facility Wide VOC emissions from the usage of cleaning solvents. FWSSF is the Facility-Wide Solvent Scaler Factor. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). Calculations shall inleude E23imp, number of impressions made in E23 in each calendar month and E23ink, number of pounds of ink applied in E23 in each calendar month. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	

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New Jersey Department of Environmental Protection Facility Specific Requirements

	raemty specific requirements				
Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	
27	Weight of VOC in inks: The weight of VOC in inks applied in E23 (designated as VOCINK E23) in pounds shall be calculated. [N.J.A.C. 7:27-22.16(a)]	Monitored by calculations each month during operation, based on one calendar month. Calculations shall be done for each type of ink applied. Weight of VOC shall be determined by multiplying the weight of each ink type applied by the VOC content of the ink in percent by weight. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Maintain records of the following: a. The VOC content/density and amount of each Conventional ink, and UV ink, as applied. b. The weight of VOC as applied calculated with the data generated in a. above. c. The trade name, SDS sheets of each Conventional ink, and UV ink, as applied. Records should be readily available to NJDEP and USEPA upon request. [N.J.A.C. 7:27-22.16(o)]		
28	VOC (Total) <= 4.9 tons/yr The annual VOC emissions from E11 shall be determined by the following equation (all weights shall be in pounds and all factors are as determined in the Applicable Requirements in this section)): {[(VOCINK E11) *(0.028)] + [FSVOCE11] + [(FWVOCCS) * (E11imp*1.13/(FWSSF)]}/2,000 VOCINK E11 is the weight of VOC in ink applied in E11. E11imp is number of impressions done by E11; FSVOCE11 is the VOC emissions from the use of fountain solutions in E11, which incorporates a 0.325 emission factor FWVOCCS is the Facility Wide VOC emissions from the usage of cleaning solvents. FWSSF is the Facility-Wide Solvent Scaler Factor. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). Calculations shall inloude E11imp, number of impressions made in E11 in each calendar month and E11ink, number of pounds of ink applied in E11 in each calendar month. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]		

U1 The entire printing operation

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
29	Weight of VOC in inks: The weight of VOC in inks applied in E11 (designated as VOCINK E11) in pounds shall be calculated. [N.J.A.C. 7:27-22.16(a)]	Monitored by calculations each month during operation, based on one calendar month. Calculations shall be done for each type of ink applied. Weight of VOC shall be determined by multiplying the weight of each ink type applied by the VOC content of the ink in percent by weight. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Maintain records of the following: a. The VOC content/density and amount of each Conventional ink, and UV ink, as applied. b. The weight of VOC as applied calculated with the data generated in a. above. c. The trade name, SDS sheets of each Conventional ink, and UV ink, as applied. Records should be readily available to NJDEP and USEPA upon request. [N.J.A.C. 7:27-22.16(o)]	<u>-</u>
30	VOC (Total): The VOC emissions from Usage of Fountain Solutions (FSVOCE11) shall be calculated for E11. The Fountain Solution emissions shall include the use of only fountain solution concentrate. This shall include a 0.325 emission factor. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on one calendar month. Weight of VOC shall be determined by multiplying the weight of each fountain solution used by the VOC content of the fountain solution in percent by weight by an emission factor of 0.325. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Maintain records of the following: a. The VOC content/density and amount of each fountain solution, as used. b. The weight of VOC as applied calculated with the data generated in a. above. c. The trade name, SDS sheets of fountain solution, as used. Records should be readily available to NJDEP and USEPA upon request. [N.J.A.C. 7:27-22.16(o)]	

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
31	VOC (Total): The VOC emissions from Usage of Fountain Solutions (FSVOCE23) shall be calculated for E23. The Fountain Solution emissions shall include the use of only fountain solution concentrate. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on one calendar month. Weight of VOC shall be determined by multiplying the weight of each fountain solution used by the VOC content of the fountain solution in percent by weight. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Maintain records of the following: a. The VOC content/density and amount of each fountain solution, as used. b. The weight of VOC as applied calculated with the data generated in a. above. c. The trade name, SDS sheets of fountain solution, as used. Records should be readily available to NJDEP and USEPA upon request. [N.J.A.C. 7:27-22.16(o)]	
32	HAPs: There shall be no air contaminants emitted at a rate from that exceeds the applicable threshold for reporting emissions set forth in N.J.A.C. 7:27-17.9(a) from any of the following equipment: E11, E12, E20, E21, E22, E23, and E24. This shall include, for each piece of equipment, the combined emissions from printing and cleaning operations. [N.J.A.C. 7:27-22.3(c)]	HAPs: Monitored by material balance each month during operation, based on a 12-operating-month rolling average. When any conventional ink, UV ink, fountain solution concentrate, fountain solution alcohol replacement, or cleaning solution that contains any substances listed in N.J.A.C. 7:27-17.9(a) is used by E11, E12, E20, E21, E22, E23, and E24, the air contaminant mass emissions of that substance shall be calculated. The methodology used to calculate the air contaminant mass emissions shall replicate the applicable methodology used to determine the VOC emissions for the individual piece of equipment. [N.J.A.C. 7:27-22.16(o)]	HAPs: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The monthly emissions of any substance in N.J.A.C. 7:22-17.9(a) shall be recorded. This shall include the combined emissions from printing and cleaning operations. [N.J.A.C. 7:27-22.16(o)]	

New Jersey Department of Environmental Protection Facility Specific Requirements

Date: 5/21/2025

Emission Unit: U1 The entire printing operation

Operating Scenario: OS20 Printing/Drying Operatiion, 6 Color KBA Heatset Web Press

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The RTO, CD2, shall maintain operation when the heatset web press is in operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	THC Concentration <= 110 Parts per Million as methane uncorrected for O2. [N.J.A.C. 7:27-22.16(a)]	THC Concentration: Monitored by periodic emission monitoring at the approved frequency. The initial periodic emission monitoring frequency will be once daily. The periodic emission monitoring frequency may be reduced from once daily to every 5 operating days after 1 month of showing compliance with the permit limits. If compliance is not met with monitoring every 5 operating days, then the Permittee shall resume back to once daily periodic emission monitoring. [N.J.A.C. 7:27-22.16(o)]	THC Concentration: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The Permittee shall also retain records of stack test results. [N.J.A.C. 7:27-22.16(o)]	None.
3	Opacity <= 20 %. For Emission Point PT2, no person shall cause, suffer, allow or permit particles to be emitted from any stack or chimney into the outdoor air the shade or appearance of which is greater than 20 percent opacity, exclusive of condensed water vapor, except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] &. [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
4	Opacity: For Emission Point PT2, the permittee shall not use the equipment in a manner that will cause visible emissions, exclusive of condensed water vapor, except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(a)]	Opacity: Monitored by visual determination upon request of the Department, based on a 1 hour block average. [N.J.A.C. 7:27-22.16(o)]	Opacity: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	None.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	Natural Gas Usage <= 8.3 MMft^3/yr. The maximum annual natural gas usage for the drying oven and thermal oxidizer (CD2) (based on a natural gas heating value of 1,000 btu/ft3). [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by gas flow rate instrument each month during operation, based on a consecutive 12 month period (rolling 1 month basis) corresponding to drying oven maximum gross heating rate. The amount of natural gas usage for each month shall be added to the amount of natural gas usage for the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
6	VOC (Total) <= 4.44 lb/hr. The maximum allowable VOC Emission rate from Stack PT2 shall be 4.44 pounds per hour. This rate shall be a combination of the VOC emitted from the application of ink in E11 and the collected VOC emitted from the use of fountain solutions. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing prior to permit renewal, based on each of three Department validated stack test runs. See the stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. See the stack testing requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack test requirements in OS Summary. [N.J.A.C. 7:27-22.16(o)]
7	CO <= 0.112 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	NOx (Total) <= 0.15 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	The Permittee shall maintain records of the VOC content of each surface coating formulation (minus water) as applied, in pounds of VOC per gallon of coating or kilograms of VOC per liter of coating; the percent by weight of any exempt organic substance; and the daily volume of each surface coating formulation applied. [N.J.A.C. 7:27-16.7(m)] & [N.J.A.C. 7:27-22.16(a)]	Other: The method(s) to be used to determine the composition of the surface coating ink, varnish, aqueous coating or fountain solution may include utilization of standard formulation sheets, material safety data sheets, the results of analytical tests, or other methods approved in advance and provided that the required information can be readily extracted from the documents. [N.J.A.C. 7:27-16.7(o)] &[N.J.A.C. 7:27-22.16(o)].	Other: Document and maintain all records in an operating logbook or readily accessible computer memories. The Permittee shall record the following for each surface coating ink, varnish and fountain solution including each change of diluent or concentration of diluent as applied, a. The trade name and series number of each ink, varnish and fountain solution used. b. The volume or weight of each surface coating ink, varnish or fountain solution applied; c. The density of each surface coating ink, varnish or fountain solution; d. The density of the VOC in each surface coating ink, varnish or fountain solution; e. The percent by weight of VOC in each surface coating ink or varnish; f. The percent by weight of any exempt organic substance in each surface coating ink, or varnish; g. The percent by weight of any water in each surface coating ink or varnish; h. The percent by volume of water in the fountain solution. [N.J.A.C. 7:27-22.16(o)].	None.
10	VOC Content per Volume of Coating (Minus Water) <= 2.9 lb/gal. The maximum VOC content per volume of aqueous surface coating. [N.J.A.C. 7:27-16.7(c)1]	Other: Monitor the formulation of each surface coating (printing ink) used. The method(s) to be used to determine the composition of the surface coating formulation may include utilization of standard formulation sheets, material safety data sheets, the results of analytical tests, or other methods approved in advance and provided that the required information can be readily extracted from the documents. [N.J.A.C. 7:27-16.7(o)] &[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of the VOC content of each surface coating formulation (minus water) as applied, in pounds of VOC per gallon of coating; the percent by weight of any exempt organic substance; and the daily volume of each surface coating formulation applied. [N.J.A.C. 7:27-16.7(m)] &[N.J.A.C. 7:27-22.16(o)].	None.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	VOC (Total) <= 2.4 tons/yr for printing operation, Where: VOC Tons per year (tpy) = [(VOC tpy from ink) + (VOC tpy from FS concentrate)] VOC tpy from Ink= [(Conventional ink use in lb/yr of press x VOC content of Conventional ink in % x 0.04)]/2000(lb/ton) VOC tpy from FS concentrate = [Amount of FS concentrate used in gal/yr x VOC content of FS concentrate in lb/gallon] /2000 (lb/ton). FS: Fountain Solution. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Maintain records of the following: a. the VOC content/density of each Conventional ink, and Fountain Solution concentrate as applied in lb/gallon. b. the efficiency of each Conventional ink, and Fountain Solution Concentrate, as applied, e. the EPA emission factor used in calculations of each Conventional ink, and Fountain Solution concentrate as applied f. the trade name, SDS sheets of each Conventional ink, and Fountain Solution concentrate as applied. Records should be readily available to NJDEP and USEPA upon request. [N.J.A.C.	Submit a report: Upon occurrence of event at the request of USEPA and NJDEP. [N.J.A.C. 7:27-22.16(o)]
12	Total Throughput <= 90,000 lb/yr of conventional ink (any 12 consecutive month period). The maximum annual conventional ink limit based on EPA emission factor of 0.028 lb VOC emitted per lb of VOC in ink applied and a maximum ink VOC content of 40 percent. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of conventional press printing ink used each month shall be added to the amount used for the preceding 11 months to get lb/yr. [N.J.A.C. 7:27-22.16(o)]	7:27-22.16(o)] Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Maintain records of the following: a. the VOC content/density of each Conventional ink as applied in lb/gallon. b. the efficiency of each Conventional ink as applied, c. the EPA emission factor used in calculations of each Conventional ink as applied d. the trade name, SDS sheets of each Conventional ink as applied. Records should be readily available to NJDEP and USEPA upon request. [N.J.A.C. 7:27-22.16(o)]	None.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	Total Throughput <= 4,267 gal/yr of fountain solution concentrate (any 12 consecutive month period). The maximum annual consumption of all the designated fountain solution concentrate based on emission factor of 0.325 and a maximum VOC content of 0.45 lb/gal. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of fountain solution concentrate in gal /month applied for each month shall be added to the amount applied for the preceding 11 months to get gal/yr. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
14	VOC (Total) <= 4.86 lb/hr Where: lb VOC lb/hr printing = VOC lb/hr from ink + VOC Lb/hr from Fountain solution concentrate VOC lb/hr from Ink= [conventional ink use in lb per hour from ink use estimator x 0.4 x 0.028] VOC lb/hr from FS concentrate = [(lb/hr of ink applied)/128x FS concentrate usage in gal/hr) x (0.45 lbVOC/gal) x 0.325] FS: fountain solutions . [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. This shall be calculated based on the calculated hourly emissions from the application of ink and use of fountain solution concentrate. These are the hourly emission rates calculated in the applicable requirements in OS20. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.
15	Maximum sustained press speed <=25,000 impressions per hour. The maximum potential sustained press speed shall be 25,000 impressions per hour. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination. The maximum press speed shall be documented. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maitain records from Ink mileage estimator of press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.

Dof#	Applicable Paguirement	Manitaring Paguiroment	Decordizating Dequirement	Submittel/Action Dequirement
Ref.# 16	Applicable Requirement HAPs (Total): There shall be no air contaminants emitted at a rate from E11 that exceeds the applicable threshold for reporting emissions set forth in N.J.A.C. 7:27-17.9(a). This shall include the combined emissions from the printing and cleaning operations of E11. [N.J.A.C. 7:27-22.16(a)]	Monitoring Requirement HAPs (Total): Monitored by material balance each month during operation, based on a 12-operating-month rolling average. When any conventional ink, UV ink, fountain solution concentrate, or cleaning solution that contains any substances listed in N.J.A.C. 7:27-17.9(a) is used by E11, the air contaminant mass emissions of that substance shall be calculated. The methodology used to calculate the air contaminant mass emissions shall replicate the applicable methodology used to	Recordkeeping Requirement HAPs (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The monthly emissions of any substance in N.J.A.C. 7:22-17.9(a) shall be recorded. This shall include the combined emissions from the printing and cleaning operations. [N.J.A.C. 7:27-22.16(o)]	None.
		determine the VOC emissions for the individual piece of equipment. [N.J.A.C. 7:27-22.16(o)]		
17	Total Throughput <= 394 lb/hr of ink. Based on documentation of construction and Ink Mileage Estimator USA (hubergroup.com) or an equivalent estimator. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a 1 hour block average. The hourly ink throughput shall be calculated monthly based on monthly calculated ink throughput and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
18	VOC (Total) <= 40 % by weight. The VOC content of any conventional ink applied shall not exceed 40% by weight. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	
19	Total Throughput <= 3.08 gal/hr of Fountain Solution Concentrate. Based on maximum ink use using the Ink Mileage Estimator USA (hubergroup.com) or equivalent, and site-specific usage rates of fountain solution concentrate per unit of ink usage. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a 1 hour block average. The hourly fountain solution concentrate throughput shall be calculated monthly based on monthly calculated foutain solution concentrate thoughput and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
20	VOC (Total) <= 0.45 lb/gal. The VOC content of any fountain solution conentrate shall not exceed 0.45 pounds per gallon. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	VOC (Total) <= 4.41 lb/hr. The maximum VOC emission rate from the application of ink shall not exceed 4.41 pounds per hour. This limit is based on maximum ink usage rate, maximum VOC ink content of 40%, and USEPA emission factor 0.028 lb VOC emitted per lb VOC in ink applied. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. The VOC emissions from the application of inks shall be calculated based on the amount of ink applied in a month in pounds, a VOC concentration of 40%, a VOC emission factor of 0.028 lb of VOC emitted to lb of VOC in ink applied, and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
22	VOC (Total) <= 0.46 lb/hr. The maximum VOC emission rate from the use of fountain solution concentrate shall not exceed 0.46 pounds per hour. This shall be based on maximum hourly potential ink use, ratio of ink application rate to fountain solution concentrate use rate of 128, and an emission factor or 0.335. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. The VOC emissions from the use of fountain solution concentrate shall be calculated with the following data: fountain solution concentrate usage in gallons, weighted average of VOC content of fountain solution concentrate used in pounds per gallon, and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
23	Maximum print width <= 22.5 inches. The maximum print width shall be 22.5 inches. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination. The maximum print width shall be documented. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain records from Ink mileage estimator, press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.
24	Maximum print length <= 38.5 inches. The maximum print length shall be 38.5 inches. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination. The maximum print width shall be documented. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain records from Ink mileage estimator, press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection Facility Specific Requirements

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
25	There shall be no more than 6 print stations. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination. The maximum number of print stations shall be documented. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain records from Ink mileage estimator, press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.
26	Two sides can be printed simulataneously [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination. The press shall be designed and operated to be able to print up to two sides at a time. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain records from Ink mileage estimator, press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.
27	The maximum ink coverage shall be 320%. The coverage factor shall be the maximum amount of ink applied across all stations as a percentage of the printable area. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination . [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain records from Ink mileage estimator, press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.
28	VOC Content per Volume of Coating (Minus Water) > 2.9 lb/gal If any surface coating, including ink, is applied with a VOC content in excess of 2.9 pounds per gallon, the daily weighted mean of the VOC content of the surface coating formulations as applied to E11 shall not exceed 2.9 pounds per gallon. [N.J.A.C. 7:27-16.7(c)3]	VOC Content per Volume of Coating (Minus Water): Monitored by calculations upon occurrence of event, based on one calendar day. The following shall be monitored: number of different surface coating formulations applied in one day; VOC content per volume of each surface coating formulation (minus water) applied in one day, in pounds per gallon; and volume of each surface coating formulation (minus water) applied in one day, in gallons . [N.J.A.C. 7:27-22.16(o)]	VOC Content per Volume of Coating (Minus Water): Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The following shall be recorded: number of surface coating formulations applied in one day; VOC content per volume of each surface coating formulation (minus water) applied in one day, in pounds per gallon; volume of each surface coating formulation (minus water) applied in one day, in gallons; daily mean VOC Content calculations conducted pursuant to N.J.A.C. 7:27-16.7(c)3. and trade name and SDS information on each surface coating formulation used in the calculations. [N.J.A.C. 7:27-22.16(o)]	

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
29	VOC content of fountain solution <= 1.6% by weight or <= 3.0% VOC by weight as applied and the fountain solution refrigerated to < 60 Fahrenheit. [N.J.A.C. 7:27-16.7(s)1]	Monitored by formulation data per change of material. The permittee shall document that each coating is VOC compliant using standard formulation sheets, MSDS forms, or the results of analytical tests. If VOC content is >= 1.6% by weight the fountain solution chiller temperature shall be monitored with a temperature guage continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. The applicant shall maintain records of the VOC content of each formulation as applied. When a fountain solution contains >1.6% VOC as applied, the chiller temperature shall be recorded daily. The permittee shall maintain the required records for a period of no less than five years. [N.J.A.C. 7:27-16.7(s)3]	None.
30	VOC (Total) <= 0.42 lb/hr. The maximum VOC fugitive emission rate from the use of the fountain solution concentrate shall not exceed 0.42 lb/hr. [N.J.A.C. 7:27-22.16(a)]	. This shall be based on the collection efficiency of the fountain solution, the amount of VOC in the fountain solution used per month, and monthly run time. VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	

New Jersey Department of Environmental Protection

Facility Specific Requirements

Date: 5/21/2025

Emission Unit: U1 The entire printing operation

Operating Scenario: OS22 Cleaning Operation, 6 Color KBA Heatset Web Press

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The Permittee shall maintain records for each cleaning solution including each change of diluent or concentration of diluent as applied. [N.J.A.C. 7:27-16.7(n)] & [N.J.A.C. 7:27-22.16(a)]	Other: The method(s) to be used to determine the composition of each cleaning solution may include utilization of standard formulation sheets, material safety data sheets, the results of analytical tests, or other methods approved in advance and provided that the required information can be readily extracted from the documents. [N.J.A.C. 7:27-16.7(o)] &[N.J.A.C. 7:27-22.16(o)].	Other: Document and maintain all records in an operating logbook or readily accessible computer memories. The Permittee shall record the following for each cleaning solution used, a. The trade name and series number of each cleaning solution used. b. The VOC content of each cleaning solution used. c. The volume of each cleaning solution applied; d. The density of VOC in each cleaning solution[N.J.A.C. 7:27-22.16(o)].	None.
2	Any cleaning material used on any lithographic or letterpress printing press shall: i.Have a composite VOC vapor pressure less than 10 mm Hg at 20 degrees Celsius; or ii.Have a VOC content of less than 70 percent by weight. [N.J.A.C. 7:27-16.7(r)2]	Monitored by formulation data per change of material. The permittee shall document that each cleaning solution used is compliant using standard formulation sheets, SDS forms, or the results of analytical tests. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material The permittee shall record the % VOC by weight and/or vapor pressure of each formulation used. The permittee shall maintain the required records for a period of no less than five years. [N.J.A.C. 7:27-16.7(r)5]	None.
3	No greater than a total of 110 gallons per calendar year of cleaning materials that do not meet one of the requirements above in Ref. #2 may be used to clean a lithographic or letterpress printing press [N.J.A.C. 7:27-16.7(r)3]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The amount of cleaning material (that does not comply with Ref. #2 above) used during each calendar month and total year to date shall be recorded and maintained on site for a period no less than five years. [N.J.A.C. 7:27-16.7(r)5]	None.

New Jersey Department of Environmental Protection Facility Specific Requirements

	Facinty Specific Requirements			
Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	A cleaning material used to clean a lithographic or letterhead printing operation is not required to meet Ref. #2 above for cleaning electronic components of a press, pre-press cleaning operations (for example, platemaking), post-press cleaning operations (for example, binding), or cleaning performed in parts washers or cold cleaners. [N.J.A.C. 7:27-16.7(r)4]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The amount of cleaning material used to clean electronic components of a press, pre-press cleaning operations, post-press cleaning operations, or cleaning performed in parts washers or cold cleaners used each calendar month and total year to date must be recorded and maintained on site for a period no less than five years. [N.J.A.C. 7:27-16.7(r)5]	None.
5	VOC (Total) <= 2.5 tons/yr Where: VOC tpy cleaning = VOC tpy from Non-Conforming Solvent + VOC tpy from Conforming Solvent + VOC tpy from Conforming Solvent VOC tpy from Non- Conforming Solvent = [110 gallons per year of Non- Conforming Solvent x VOC content of Non- Conforming Solvent 7.34(lb/gal)]/2000 lb/ton VOC tpy from Conforming Solvent = [gallons Conforming Solvent use per year x VOC content of Conforming Solvent (6.37 lb/gal) x 0.5]/2000 lb/ton Conforming solvent: i.Has a composite VOC vapor pressure less than 10 mm Hg at 20 degrees Celsius; or ii.Has a VOC content of less than 70 percent by weight. Non-Conforming solvent = i.Has a composite VOC vapor pressure greater than 10 mm Hg at 20 degrees Celsius; and ii.Has a VOC content greater than 70 percent by weight [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by material feed/flow monitoring each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Document and maintain all records in an operating logbook or readily accessible computer memories. The Permittee shall record the following for each cleaning solution used, a. The trade name and series number of each cleaning solution/solvent used. b. The VOC content of each cleaning solution as applied. c. The volume of each cleaning solution/solvent applied in gallons/year as applied d. The density of VOC in each cleaning solution. [N.J.A.C. 7:27-22.16(o)]	None.

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New Jersey Department of Environmental Protection Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Dogwinsment	Decoudlessning Decovingment	Submittel/Action Dequinement
		Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Total Throughput <= 1,335 gal/yr (any 12 consecutive month period) for conforming solvent (wipe clean) with a maximum VOC content of 6.37 lb VOC/gal and efficiency of 0.5. Conforming solvent: i.Has a composite VOC vapor pressure less than 10 mm Hg at 20 degrees Celsius; or ii.Has a VOC content of less than 70 percent by weight [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of cleaning solutions consumed for each month shall be added to the amount consumed for the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
7	Total Throughput <= 110 gal/yr (any 12 consecutive month period) from non-conforming solvent with a maximum VOC Content of 7.34 lb VOC/gal. A non-conforming solvent: i.Has a composite VOC vapor pressure greater than 10 mm Hg at 20 degrees Celsius; and ii.Has a VOC content of greater than 70 percent by weight. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of cleaning solutions consumed for each month shall be added to the amount consumed for the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
8	The print stations multiplied by the width in inches and multiplied by the sides shall be 231. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction once initially, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	
9	VOC (Total) <= 7.34 lb/gal. The VOC content of any non-conforming cleaning solvent used shall not exceed 7.34 pounds VOC per gallon. A non-conforming solvent: i.Has a composite VOC vapor pressure greater than 10 mm Hg at 20 degrees Celsius; and ii.Has a VOC content of greater than 70 percent by weight. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. Each time a new cleaning solvent is used, its VOC content shall be monitored. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. Each time a new cleaning solvent is used, its VOC content shall be recorded. [N.J.A.C. 7:27-22.16(o)]	

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	VOC (Total) <= 6.37 lb/gal. The VOC content of any conforming cleaning solvent shall not exceed 6.37 pounds VOC per gallon. Conforming solvent: i.Has a composite VOC vapor pressure less than 10 mm Hg at 20 degrees Celsius; or ii.Has a VOC content of less than 70 percent by weight.	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	
	. [N.J.A.C. 7:27-22.16(a)]			
11	Total Throughput <= 1.13 gal/hr. The sum of non-conforming solvent throughput and conforming solvent throughput used shall not exceed 1.13 gallons per hour. The maximum hourly throughput is based on specific solvent usage rates and design parameters. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a 1 hour block average. The hourly conforming and non-conforming solvent throughput shall be calculated monthly based on monthly conforming and non-conforming solvent usage and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
12	VOC (Total) <= 7.8 lb/hr. The maximum VOC emission rate from the application of all cleaning solvents shall not exceed 7.8 pounds per hour. This is based on press designn specifications. specifice solvent usage rates, and weighted VOC solvent content. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. The VOC emissions from the use of cleaning solvents shall be calculated based on the total monthly usage of all cleaning solvent in gallons, the weighted VOC pounds per gallon content of the cleaning solvent, run hours during the month, an efficiency/release factor of 0.5 for conforming solvents, and an efficiency/release factor of 1.0 for non-conforming solvents. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
13	The RTO, CD2, shall maintain operation when the heatset web press is in operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	HAPs (Total): There shall be no air contaminants emitted at a rate from E11 that exceeds the applicable threshold for reporting emissions set forth in N.J.A.C. 7:27-17.9(a). This shall include the combined emissions from the printing and cleaning operations of E11. [N.J.A.C. 7:27-22.16(a)]	HAPs (Total): Monitored by material balance each month during operation, based on a 12-operating-month rolling average. When any conventional ink, UV ink, fountain solution concentrate, or cleaning solution that contains any substances listed in N.J.A.C. 7:27-17.9(a) is used by E11, the air contaminant mass emissions of that substance shall be calculated. The methodology used to calculate the air contaminant mass emissions shall replicate the applicable methodology used to determine the VOC emissions for the individual piece of equipment. [N.J.A.C. 7:27-22.16(o)]	HAPs (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The monthly emissions of any substance in N.J.A.C. 7:22-17.9(a) shall be recorded. This shall include the combined emissions from the printing and cleaning operations. [N.J.A.C. 7:27-22.16(o)]	None.

UNIMAC GRAPHICS (02842) BOP220001

Date: 5/21/2025

New Jersey Department of Environmental Protection Facility Specific Requirements

Emission Unit: U1 The entire printing operation

OS23 Printing Operation, 8 Color KBA 56" Sheetfed Press **Operating Scenario:**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC content of fountain solution <= 5% by weight or <= 8.5% VOC by weight as applied and the fountain solution refrigerated to < 60 Fahrenheit. [N.J.A.C. 7:27-16.7(s)2]	Monitored by formulation data per change of material. The permittee shall document that each coating is VOC compliant using standard formulation sheets, MSDS forms, or the results of analytical tests. If VOC content is >= 5.0% by weight the fountain solution chiller temperature shall be monitored with a temperature guage continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. The applicant shall maintain records of the VOC content of each formulation as applied. When a fountain solution contains >5% VOC as applied, the chiller temperature shall be recorded daily. The permittee shall maintain the required records for a period of no less than five years. [N.J.A.C. 7:27-16.7(s)3]	None.

New Jersey Department of Environmental Protection

Date: 5/21/2025

		Facility Specific Requirements			
Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	
2	The Permittee shall maintain records of the VOC content of each surface coating formulation (minus water) as applied, in pounds of VOC per gallon of coating or kilograms of VOC per liter of coating; the percent by weight of any exempt organic substance; and the daily volume of each surface coating formulation applied. [N.J.A.C. 7:27-16.7(m)] & [N.J.A.C. 7:27-22.16(a)]	Other: The method(s) to be used to determine the composition of the surface coating ink, varnish, aqueous coating or fountain solution may include utilization of standard formulation sheets, material safety data sheets, the results of analytical tests, or other methods approved in advance and provided that the required information can be readily extracted from the documents. [N.J.A.C. 7:27-16.7(o)] &[N.J.A.C. 7:27-22.16(o)].	Other: Document and maintain all records in an operating logbook or readily accessible computer memories. The Permittee shall record the following for each surface coating ink, varnish and fountain solution including each change of diluent or concentration of diluent as applied, a. The trade name and series number of each ink, varnish and fountain solution used. b. The volume or weight of each surface coating ink, varnish or fountain solution applied; c. The density of each surface coating ink, varnish or fountain solution; d. The density of the VOC in each surface coating ink, varnish or fountain solution; e. The percent by weight of VOC in each surface coating ink or varnish; f. The percent by weight of any exempt organic substance in each surface coating ink, or varnish; g. The percent by weight of any water in each surface coating ink or varnish; h. The percent by volume of water in the fountain solution. [N.J.A.C. 7:27-22.16(o)].	None.	
3	VOC Content per Volume of Coating (Minus Water) <= 2.9 lb/gal. The maximum VOC content per volume of aqueous surface coating. [N.J.A.C. 7:27-16.7(c)1]	Other: Monitor the formulation of each surface coating (printing ink) used. The method(s) to be used to determine the composition of the surface coating formulation may include utilization of standard formulation sheets, material safety data sheets, the results of analytical tests, or other methods approved in advance and provided that the required information can be readily extracted from the documents. [N.J.A.C. 7:27-16.7(o)] &[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of the VOC content of each surface coating formulation (minus water) as applied, in pounds of VOC per gallon of coating; the percent by weight of any exempt organic substance; and the daily volume of each surface coating formulation applied. [N.J.A.C. 7:27-16.7(m)] &[N.J.A.C. 7:27-22.16(o)].	None.	

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New Jersey Department of Environmental Protection Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 1.7 tons/yr for printing operation, Where: VOC Tons per year (tpy) = [(VOC tpy from ink) + (VOC tpy from coating) + (VOC tpy from Fountain solution) + (VOC tpy from Alcohol Replacement)] VOC tpy from Ink= [(Conventional ink use in lb/yr of press x VOC content of Conventional ink in % x 0.05) + (UV ink use in lb/yr of press x VOC content of UV ink in % x 0.05)]/2000(lb/ton) VOC tpy from coating = [(low VOC coating use in lb coating/yr of press x VOC content of low VOC coating in % by weight (lb VOC/lb Coating)) + (High VOC coating use in lb coating/yr x VOC content of High VOC coating in % by weight (lb VOC/lb Coating))]/2000 (lb/ton). low VOC coating has a VOC content of less than or equal to 0.1% by weight. high VOC coating has a VOC content of greater than 0.1% and less than or equal to 2.5% by weight. VOC tpy from FS concentrate = [Amount of FS concentrate used in gal/yr x VOC content of FS concentrate in lb/gallon] /2000 (lb/ton). VOC tpy from FS alcohol replacement = [Amount of FS alcohol replacement in lb/gallon] /2000 (lb/ton). FS: Fountain Solution. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Maintain records of the following: a. the VOC content/density of each Conventional ink, UV ink, each Coating, and Fountain Solution Concentrate and Alchohol replacement as applied in lb/gallon. b. the EPA emission factor used in calculations of each Conventional ink, UV ink, each Coating, Fountain Solution and Alchohol replacement as applied c. the trade name, SDS sheets of each Conventional ink, UV ink, each Coating, and Fountain Solution Concentrate and Alchohol replacement as applied. Records should be readily available to NJDEP and USEPA upon request. [N.J.A.C. 7:27-22.16(o)]	Submit a report: Upon occurrence of event at the request of USEPA and NJDEP. [N.J.A.C. 7:27-22.16(o)]

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New Jersey Department of Environmental Protection Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
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5	Total Throughput <= 30,600 lb/yr of conventional ink (any 12 consecutive month period). The maximum annual conventional ink limit based on EPA emission factor of 0.05 lb VOC emitted per lb of VOC in ink applied and a maximum ink VOC content of 10 percent. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of conventional press printing ink used each month shall be added to the amount used for the preceding 11 months to get lb/yr. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Maintain records of the following: a. the VOC content/density of each Conventional ink as applied in lb/gallon. b. the efficiency of each Conventional ink as applied, c. the EPA emission factor used in calculations of each Conventional ink as applied d. the trade name, SDS sheets of each Conventional ink as applied. Records should be readily available to NJDEP and USEPA upon request. [N.J.A.C.	None.
6	Total Throughput <= 17,000 lb/yr UV ink (any 12 consecutive month period). The maximum annual printing ink limit based on EPA emission factor of .05 lb VOC emitted per lb of VOC in ink applied, and a maximum ink VOC content of 2.0%. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of UV press printing ink used each month shall be added to the amount used for the preceding 11 months to get lb/yr. [N.J.A.C. 7:27-22.16(o)]	7:27-22.16(o)] Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Maintain records of the following: a. the VOC content/density of each UV ink as applied in lb/gallon. b. the efficiency of each UV ink as applied, c. the EPA emission factor used in calculations of each UV ink as applied d. the trade name, SDS sheets of each UV ink as applied. Records should be readily available to NJDEP and USEPA upon request. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Total Throughput <= 71,400 lb/yr of low VOC coating (any 12 consecutive month period). Maximum annual usage of low VOC coating with an emission factor of 1.0 and VOC coating content equal to or less than 0.1% by weight. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of coating used each month shall be added to the amount used for the preceding 11 months to get lb/yr. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Records shall be kept of maximum VOC content of low VOC coating minus water in lb/gal, percentage VOC by content, and amount of low VOC coating used. [N.J.A.C. 7:27-22.16(o)]	None.
8	Total Throughput <= 32,130 lb/yr of High VOC coating (any 12 consecutive month period). Maximum annual usage of high VOC coating with an emission factor of 1.0 and VOC coating content greater than 0.1% by weight and less than or equal to 2.5% by weight. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of coating used each month shall be added to the amount used for the preceding 11 months to get lb/yr. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation Records shall be kept of maximum VOC content of high VOC coating minus water in lb/gal, percentage VOC by content, and amount of high VOC coating used. [N.J.A.C. 7:27-22.16(o)]	None.
9	Total Throughput <= 378 gal/yr (any 12 consecutive month period). The maximum annual consumption of all the designated fountain solutions alcohol replacement based on emission factor of 1.0 and a maximum VOC content of 6.45 lb/gal. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of fountain solution alcohol replacement applied for each month shall be added to the amount applied for the preceding 11 months to get gal/yr. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
10	Total Throughput <= 757 gal/yr of fountain solution concentrate (any 12 consecutive month period). The maximum annual consumption of all the designated fountain solution concentrate based on emission factor of 1.0 and a maximum VOC content of 0.1 lb/gal. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of fountain solution concentrate in gal /month applied for each month shall be added to the amount applied for the preceding 11 months to get gal/yr. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection Facility Specific Requirements

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	VOC (Total) <= 7.5 lb/hr Where: lb VOC lb/hr from coating + VOC lb/hr from ink + VOC lb/hr from coating + VOC lb/hr from Fountain solution concentrate + VOC lb/hr from Alcohol Replacement VOC lb/hr from Ink= [conventional ink use in lb per hour from ink use estimator x 0.1 x 0.05] + [UV ink use in lb per hour from ink use estimator x 0.02 x 0.05] VOC lb/hr from coating = [(low VOC coating use in lb coating/hr of press x VOC content of low VOC coating in % by weight (lb VOC/lb Coating)) + (High VOC coating use in lb coating/hr x VOC content of High VOC coating in % by weight (lb VOC/lb Coating))] low VOC coating has a VOC content of less than or equal to 0.1%. high VOC coating has a VOC content of greater 0.1% and less than or equal to 2.5% VOC lb/hr from FS concentrate = ((lb/hr of ink applied)/102 x FS concentrate usage in gal/hr) x (0.1 lbVOC/gal) VOC lb/hr from FS alcohol replacement = ((lb/hr of ink applied)/286 x FS alcohol replacement usage in gal/hr) x (6.45 lbVOC/gal)	VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. This shall be calculated based on the calculated hourly emissions from the application of ink, application of coating, use of fountain solution concentrate, and fountain solution alcohol replacement. These are the hourly emission rates calculated in the applicable requirements in OS23. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.
	FS: fountain solutions . [N.J.A.C. 7:27-22.16(a)]			

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New Jersey Department of Environmental Protection Facility Specific Requirements

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	Maximum sustained press speed <=7,000 impressions per hour. The maximum potential press speed shall be 7,000 impressions per hour. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination. The maximum press speed shall be documented. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially Maitain records from Ink mileage estimator of press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.
13	HAPs (Total): Potential emissions of all HAPs are below reporting thresholds established in N.J.A.C 7:27-17. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Total Throughput <= 159.4 lb/hr of ink. Based on documentation of construction and Ink Mileage Estimator Ink Mileage Estimator USA (hubergroup.com) or an equivalent estimator. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a 1 hour block average. The hourly ink throughput shall be calculated monthly based on monthly calculated ink thoughput and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
15	VOC (Total) <= 2 % by weight. The VOC content of any UV ink applied shall not exceed 2% by weight. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	
16	VOC (Total) <= 10 % by weight. The VOC content of any conventional ink applied shall not exceed 10% by weight. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	
17	Total Throughput <= 71.5 lb/hr of coatings. Based on an application rate for coatings of 0.7 lb per thousand square feet printable area and documentation of construction, which shall include maximum print width, maximum print length, and maximum speed (net impressions per hour). [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a 1 hour block average. The hourly coating throughput shall be calculated monthly based on monthly calculated coating thoughput and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
18	VOC (Total) > 0.1 and VOC (Total) <= 2.5 % by weight. The VOC content of any high VOC coating applied shall be greater than 0.1% by weight and shall not exceed 2.5% by weight. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	

U1 The entire printing operation

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New Jersey Department of Environmental Protection Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	VOC (Total) <= 0.1 % by weight. The VOC content of any low VOC coating applied shall not exceed 0.1% by weight for low VOC coating. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	
20	Total Throughput <= 1.56 gal/hr of Fountain Solution Concentrate. Based on maximum ink use using the Ink Mileage Estimator Ink Mileage Estimator USA (hubergroup.com) or equivalent, and site-specific usage rates of fountain solution concentrate per unit of ink usage. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a 1 hour block average. The hourly fountain solution concentrate throughput shall be calculated monthly based on monthly calculated foutain solution concentrate throughput and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
21	VOC (Total) <= 0.1 lb/gal. The VOC content of any fountain solution conentrate shall not exceed 0.1 pounds per gallon. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	
22	Total Throughput <= 0.74 gal/hr of Fountain Solution Alcohol Replacement. Based on maximum ink use using the Ink Mileage Estimator Ink Mileage Estimator USA (hubergroup.com) or equivalent, and site-specific usage rates of fountain solution alcohol replacement per unit of ink usage. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a 1 hour block average. The hourly fountain solution alcohol replacement throughput shall be calculated monthly based on monthly calculated fountain solution alcohol replacement throughput and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
23	VOC (Total) <= 6.45 lb/gal. The VOC content of any fountain solution alcohol replacement shall not exceed 6.45 pounds per gallon. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	
24	VOC (Total) <= 0.8 lb/hr. The maximum VOC emission rate from the application of ink shall not exceed 0.8 pounds per hour. This limit is based on maximum ink usage rate, maximum VOC ink content of 10%, and USEPA emission factor 0.05 lb VOC emitted per lb VOC in ink applied. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. The VOC emissions from the application of inks shall be calculated based on the amount of ink applied in a month in pounds, a VOC concentration of 10%, a VOC emission factor of 0.05 lb of VOC emitted to lb of VOC in ink applied, and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
25	VOC (Total) <= 1.79 lb/hr. The maximum VOC emission rate from the application of coating shall not exceed 1.79 pounds per hour. The basis for this allowable VOC emission rate is the E12 press design specifications and operating limitations and an application rate for coatings of 0.7 pounds per 1000 square feet. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. The VOC emissions from the application of aqueous coatings shall be calculated based on the amount of coatings applied in pounds during the month, weighted VOC coating concentration, and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
26	VOC (Total) <= 0.16 lb/hr. The maximum VOC emission rate from the use of fountain solution concentrate shall not exceed 0.16 pounds per hour. This shall be based on maximum hourly potential ink use, and ratio of ink application rate to fountain solution concentrate use rate of 102. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. The VOC emissions from the use of fountain solution concentrate shall be calculated with the following data: fountain solution concentrate usage in gallons, weighted average of VOC content of fountain solution concentrate used in pounds per gallon, and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
27	VOC (Total) <= 4.8 lb/hr. The maximum VOC emission rate from the use of fountain solution alcohol replacement shall not exceed 4.8 pounds per hour. This shall be based on maximum hourly potential ink use, and ratio of ink application rate to fountain solution alcohol replacement use rate of 286. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. The VOC emissions from the use of fountain solution alcohol replacement shall be calculated with the following data: fountain solution alcohol replacement usage rate in gallons, weighted average VOC content of fountain solution alcohol replacement used in pounds per gallon, and monthly run time. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
28	Maximum print width <= 54.25 inches. The maximum print width shall be 54.25 inches. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination. The maximum print width shall be documented. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain records from Ink mileage estimator, press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
29	Maximum print length <= 38.75 inches. The maximum print length shall be 38.75 inches. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination. The maximum print width shall be documented. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain records from Ink mileage estimator, press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.
30	There shall be no more than 8 print stations. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination. The maximum number of print stations shall be documented. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain records from Ink mileage estimator, press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.
31	Only one side shall be printed at a time. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination. The press shall be designed and operated to be able to print up to two sides at a time. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain records from Ink mileage estimator, press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.
32	The maximum ink coverage shall be 320%. The coverage factor shall be the maximum amount of ink applied across all stations as a percentage of the printable area. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination . [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain records from Ink mileage estimator, press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
33	VOC Content per Volume of Coating (Minus Water) > 2.9 lb/gal If any surface coating is applied with a VOC content in excess of 2.9 pounds per gallon, the daily weighted mean of the VOC content of the surface coating formulations as applied to E12 shall not exceed 2.9 pounds per gallon. [N.J.A.C. 7:27-16.7(c)3]	VOC Content per Volume of Coating (Minus Water): Monitored by calculations upon occurrence of event, based on one calendar day. The following shall be monitored: number of different surface coating formulations applied in one day; VOC content per volume of each surface coating formulation (minus water) applied in one day, in pounds per gallon; and volume of each surface coating formulation (minus water) applied in one day, in gallons . [N.J.A.C. 7:27-22.16(o)]	VOC Content per Volume of Coating (Minus Water): Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The following shall be recorded: number of surface coating formulations applied in one day; VOC content per volume of each surface coating formulation (minus water) applied in one day, in pounds per gallon; volume of each surface coating formulation (minus water) applied in one day, in gallons; daily mean VOC Content calculations conducted pursuant to N.J.A.C. 7:27-16.7(c)3. and trade name and SDS information on each surface coating formulation used in the calculations. [N.J.A.C. 7:27-22.16(o)]	
34	The RTO, CD2, shall maintain operation when the heatset web press is in operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
35	HAPs (Total): There shall be no air contaminants emitted at a rate from E12 that exceeds the applicable threshold for reporting emissions set forth in N.J.A.C. 7:27-17.9(a). This shall include the combined emissions from the printing and cleaning operations of E12. [N.J.A.C. 7:27-22.16(a)]	HAPs (Total): Monitored by material balance each month during operation, based on a 12-operating-month rolling average. When any conventional ink, UV ink, coating, fountain solution concentrate, fountain solution alcohol replacement, or cleaning solution that contains any substances listed in N.J.A.C. 7:27-17.9(a) is used by E12, the air contaminant mass emissions of that substance shall be calculated. The methodology used to calculate the air contaminant mass emissions shall replicate the applicable methodology used to determine the VOC emissions for the individual piece of equipment. [N.J.A.C. 7:27-22.16(o)]	HAPs (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The monthly emissions of any substance in N.J.A.C. 7:22-17.9(a) shall be recorded. This shall include the combined emissions from the printing and cleaning operations. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection Facility Specific Requirements

Date: 5/21/2025

Emission Unit: U1 The entire printing operation

Operating Scenario: OS24 Cleaning Operation, 8 Color KBA 56" Sheetfed Press

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The Permittee shall maintain records for each cleaning solution including each change of diluent or concentration of diluent as applied. [N.J.A.C. 7:27-16.7(n)] & [N.J.A.C. 7:27-22.16(a)]	Other: The method(s) to be used to determine the composition of each cleaning solution may include utilization of standard formulation sheets, material safety data sheets, the results of analytical tests, or other methods approved in advance and provided that the required information can be readily extracted from the documents. [N.J.A.C. 7:27-16.7(o)] &[N.J.A.C. 7:27-22.16(o)].	Other: Document and maintain all records in an operating logbook or readily accessible computer memories. The Permittee shall record the following for each cleaning solution used, a. The trade name and series number of each cleaning solution used. b. The VOC content of each cleaning solution used. c. The volume of each cleaning solution applied; d. The density of VOC in each cleaning solution[N.J.A.C. 7:27-22.16(o)].	None.
2	Any cleaning material used on any lithographic or letterpress printing press shall: i.Have a composite VOC vapor pressure less than 10 mm Hg at 20 degrees Celsius; or ii.Have a VOC content of less than 70 percent by weight. [N.J.A.C. 7:27-16.7(r)2]	Monitored by formulation data per change of material. The permittee shall document that each cleaning solution used is compliant using standard formulation sheets, SDS forms, or the results of analytical tests. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material The permittee shall record the % VOC by weight and/or vapor pressure of each formulation used. The permittee shall maintain the required records for a period of no less than five years. [N.J.A.C. 7:27-16.7(r)5]	None.
3	No greater than a total of 110 gallons per calendar year of cleaning materials that do not meet one of the requirements above in Ref. #2 may be used to clean a lithographic or letterpress printing press [N.J.A.C. 7:27-16.7(r)3]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The amount of cleaning material (that does not comply with Ref. #2 above) used during each calendar month and total year to date shall be recorded and maintained on site for a period no less than five years. [N.J.A.C. 7:27-16.7(r)5]	None.

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New Jersey Department of Environmental Protection Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	A cleaning material used to clean a lithographic or letterhead printing operation is not required to meet Ref. #2 above for cleaning electronic components of a press, pre-press cleaning operations (for example, platemaking), post-press cleaning operations (for example, binding), or cleaning performed in parts washers or cold cleaners. [N.J.A.C. 7:27-16.7(r)4]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The amount of cleaning material used to clean electronic components of a press, pre-press cleaning operations, post-press cleaning operations, or cleaning performed in parts washers or cold cleaners used each calendar month and total year to date must be recorded and maintained on site for a period no less than five years. [N.J.A.C. 7:27-16.7(r)5]	None.
5	VOC (Total) <= 3.2 tons/yr Where: VOC tpy cleaning = VOC tpy from Non-Conforming Solvent + VOC tpy from Conforming Solvent VOC tpy from Non- Conforming Solvent = [110 gallons per year of Non- Conforming Solvent x VOC content of Non- Conforming Solvent 7.34(lb/gal)]/2000 lb/ton VOC tpy from Conforming Solvent = [gallons Conforming Solvent use per year x VOC content of Conforming Solvent (6.37 lb/gal) x 0.5]/2000 lb/ton Conforming solvent: i.Has a composite VOC vapor pressure less than 10 mm Hg at 20 degrees Celsius; or ii.Has a VOC content of less than 70 percent by weight. Non-Conforming solvent = i.Has a composite VOC vapor pressure greater than 10 mm Hg at 20 degrees Celsius; and ii.Has a VOC content greater than 70 percent by weight [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by material feed/flow monitoring each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Document and maintain all records in an operating logbook or readily accessible computer memories. The Permittee shall record the following for each cleaning solution used, a. The trade name and series number of each cleaning solution/solvent used. b. The VOC content of each cleaning solution as applied. c. The volume of each cleaning solution/solvent applied in gallons/year as applied d. The density of VOC in each cleaning solution. [N.J.A.C. 7:27-22.16(o)]	None.

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New Jersey Department of Environmental Protection Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Total Throughput <= 1,775 gal/yr (any 12 consecutive month period) for conforming solvent (wipe clean) with a maximum VOC content of 6.37 lb VOC/gal and efficiency of 0.5. Conforming solvent: i.Has a composite VOC vapor pressure less than 10 mm Hg at 20 degrees Celsius; or ii.Has a VOC content of less than 70 percent by weight [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of clean solutions consumed for each month shall be added to the amount consumed for the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
7	Total Throughput <= 110 gal/yr (any 12 consecutive month period) from non-conforming solvent with a maximum VOC Content of 7.34 lb VOC/gal. A non-conforming solvent: i.Has a composite VOC vapor pressure greater than 10 mm Hg at 20 degrees Celsius; and ii.Has a VOC content of greater than 70 percent by weight. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of clean solutions consumed for each month shall be added to the amount consumed for the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
8	HAPs (Total): . All HAPs emitted from the cleaning process are below the reporting thresholds [N.J.A.C. 7:27-22.16(a)]	HAPs (Total): Monitored by material balance each month during operation. Keep records of hours of operation of printing monthly and yearly. [N.J.A.C. 7:27-22.16(o)]	HAPs (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Keep records of hours of operation for printing monthly and yearly. [N.J.A.C. 7:27-22.16(o)]	None.
9	The print stations multipled by the width in inches and multiplied by the sides shall be 434. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction once initially, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	VOC (Total) <= 7.34 lb/gal. The VOC content of any non-conforming cleaning solvent used shall not exceed 7.34 pounds VOC per gallon. A non-conforming solvent: i.Has a composite VOC vapor pressure greater than 10 mm Hg at 20 degrees Celsius; and ii.Has a VOC content of greater than 70 percent by weight. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. Each time a new cleaning solvent is used, its VOC content shall be monitored. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. Each time a new cleaning solvent is used, its VOC content shall be recorded. [N.J.A.C. 7:27-22.16(o)]	
11	VOC (Total) <= 6.37 lb/gal. The VOC content of any conforming cleaning solvent shall not exceed 6.37 pounds VOC per gallon. Conforming solvent: i.Has a composite VOC vapor pressure less than 10 mm Hg at 20 degrees Celsius; or ii.Has a VOC content of less than 70 percent by weight. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	
12	Total Throughput <= 1.81 gal/hr. The sum of non-conforming solvent throughput and and conforming solvent throughput used shall not exceed 1.81 gallons per hour. The maximum hourly throughput is based on specific solvent usage rates and design parameters. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a 1 hour block average. The hourly conforming and non-conforming solvent throughput shall be calculated monthly based on monthly conforming and non-conforming solvent usage and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	VOC (Total) <= 13.3 lb/hr. The maximum VOC emission rate from the application of all cleaning solvents shall not exceed 13.3 pounds per hour. This is based on press designn specifications. specifice solvent usage rates, and weighted VOC solvent content. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. The VOC emissions from the use of cleaning solvents shall be calculated based on the total monthly usage of all cleaning solvent in gallons, the weighted VOC pounds per gallon content of the cleaning solvent, run hours during the month, an efficiency/release factor of 0.5 for conforming solvents, and an efficiency/release factor of 1.0 for non-conforming solvents. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
14	HAPs (Total): There shall be no air contaminants emitted at a rate from E12 that exceeds the applicable threshold for reporting emissions set forth in N.J.A.C. 7:27-17.9(a) from E12. This shall include the combined emissions from the printing and cleaning operations. [N.J.A.C. 7:27-22.16(a)]	HAPs (Total): Monitored by material balance each month during operation, based on a 12-operating-month rolling average. When any conventional ink, UV ink, coating, fountain solution concentrate, fountain solution alcohol replacement, or cleaning solution that contains any substances listed in N.J.A.C. 7:27-17.9(a) is used by E12, the air contaminant mass emissions of that substance shall be calculated. The methodology used to calculate the air contaminant mass emissions shall replicate the applicable methodology used to determine the VOC emissions for the individual piece of equipment. [N.J.A.C. 7:27-22.16(o)]	HAPs (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The monthly emissions of any substance in N.J.A.C. 7:22-17.9(a) shall be recorded. This shall include the combined emissions from the printing and cleaning operations. [N.J.A.C. 7:27-22.16(o)]	None.

UNIMAC GRAPHICS (02842) BOP220001

Date: 5/21/2025

New Jersey Department of Environmental Protection Facility Specific Requirements

Emission Unit: U1 The entire printing operation

Operating Scenario: OS39 The printing operation for E20, KBA41-3, including the use of printing inks, fountain solutons and UV/aqueous coatings

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC content of fountain solution <= 5% by weight or <= 8.5% VOC by weight as applied and the fountain solution refrigerated to < 60 Fahrenheit. [N.J.A.C. 7:27-16.7(s)2]	Monitored by formulation data per change of material. The permittee shall document that each coating is VOC compliant using standard formulation sheets, MSDS forms, or the results of analytical tests. If VOC content is >= 5.0% by weight the fountain solution chiller temperature shall be monitored with a temperature guage continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. The applicant shall maintain records of the VOC content of each formulation as applied. When a fountain solution contains >5% VOC as applied, the chiller temperature shall be recorded daily. The permittee shall maintain the required records for a period of no less than five years. [N.J.A.C. 7:27-16.7(s)3]	None.

	Tucinty Specific Requirements				
Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	
2	The Permittee shall maintain records of the VOC content of each surface coating formulation (minus water) as applied, in pounds of VOC per gallon of coating or kilograms of VOC per liter of coating; the percent by weight of any exempt organic substance; and the daily volume of each surface coating formulation applied. [N.J.A.C. 7:27-16.7(m)] & [N.J.A.C. 7:27-22.16(a)]	Other: The method(s) to be used to determine the composition of the surface coating ink, varnish, aqueous coating or fountain solution may include utilization of standard formulation sheets, material safety data sheets, the results of analytical tests, or other methods approved in advance and provided that the required information can be readily extracted from the documents. [N.J.A.C. 7:27-16.7(o)] &[N.J.A.C. 7:27-22.16(o)].	Other: Document and maintain all records in an operating logbook or readily accessible computer memories. The Permittee shall record the following for each surface coating ink, varnish and fountain solution including each change of diluent or concentration of diluent as applied, a. The trade name and series number of each ink, varnish and fountain solution used. b. The volume or weight of each surface coating ink, varnish or fountain solution applied; c. The density of each surface coating ink, varnish or fountain solution; d. The density of the VOC in each surface coating ink, varnish or fountain solution; e. The percent by weight of VOC in each surface coating ink or varnish; f. The percent by weight of any exempt organic substance in each surface coating ink, or varnish g. The percent by weight of any water in each surface coating ink or varnish; h. The percent by volume of water in the fountain solution. [N.J.A.C. 7:27-22.16(o)].	None.	
3	VOC Content per Volume of Coating (Minus Water) <= 2.9 lb/gal. The maximum VOC content per volume of surface coating. [N.J.A.C. 7:27-16.7(c)1]	Other: Monitor the formulation of each surface coating (printing ink) used. The method(s) to be used to determine the composition of the surface coating formulation may include utilization of standard formulation sheets, material safety data sheets, the results of analytical tests, or other methods approved in advance and provided that the required information can be readily extracted from the documents. [N.J.A.C. 7:27-16.7(o)] &[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of the VOC content of each surface coating formulation (minus water) as applied, in pounds of VOC per gallon of coating; the percent by weight of any exempt organic substance; and the daily volume of each surface coating formulation applied. [N.J.A.C. 7:27-16.7(m)] &[N.J.A.C. 7:27-22.16(o)].	None.	

New Jersey Department of Environmental Protection Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	VOC (Total) <= 1.7 tons/yr for printing operation, Where: VOC Tons per year (tpy) = [(VOC tpy from ink) + (VOC tpy from coating) + (VOC tpy from Fountain solution) + (VOC tpy from Alcohol Replacement)] VOC tpy from Ink= [(Conventional ink use in lb/yr of press x VOC content of Conventional ink in % x 0.05) + (UV ink use in lb/yr of press x VOC content of UV ink in % x 0.05)]/2000(lb/ton) VOC tpy from coating = [(low VOC coating use in lb coating/yr of press x VOC content of low VOC coating in % by weight (lb VOC/lb Coating)) + (High VOC coating use in lb coating/yr x VOC content of High VOC coating in % by weight (lb VOC/lb Coating))]/2000 (lb/ton). low VOC coating has a VOC content of less than or equal to 0.1% by weight. high VOC coating has a VOC content of greater than 0.1% and less than or equal to 2.5% by weight. VOC tpy from FS concentrate = [Amount of FS concentrate used in gal/yr x VOC content of FS concentrate in lb/gallon] /2000 (lb/ton). VOC tpy from FS alcohol replacement = [Amount of FS alcohol replacement used in gal/yr x VOC content of FS alcohol replacement used in gal/yr x VOC content of FS alcohol replacement in lb/gallon] /2000 (lb/ton). FS: Fountain Solution. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Maintain records of the following: a. the VOC content/density of each Conventional ink, UV ink, each Coating, and Fountain Solution Concentrate and Alchohol replacement as applied in lb/gallon. b. the EPA emission factor used in calculations of each Conventional ink, UV ink, each Coating, Fountain Solution and Alchohol replacement as applied c. the trade name, SDS sheets of each Conventional ink, UV ink, each Coating, and Fountain Solution Concentrate and Alchohol replacement as applied. Records should be readily available to NJDEP and USEPA upon request. [N.J.A.C. 7:27-22.16(o)]	Submit a report: Upon occurrence of event at the request of USEPA and NJDEP. [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	Total Throughput <= 61,200 lb/yr of conventional ink (any 12 consecutive month period). The maximum annual conventional ink limit based on EPA emission factor of 0.05 lb VOC emitted per lb of VOC in ink applied and a maximum ink VOC content of 10 percent. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of conventional press printing ink used each month shall be added to the amount used for the preceding 11 months to get lb/yr. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Maintain records of the following: a. the VOC content/density of each Conventional ink as applied in lb/gallon. b. the efficiency of each Conventional ink as applied, c. the EPA emission factor used in calculations of each Conventional ink as applied d. the trade name, SDS sheets of each Conventional ink as applied. Records should be readily available to NJDEP and USEPA upon request. [N.J.A.C. 7:27-22.16(o)]	None.
6	Total Throughput <= 34,000 lb/yr UV ink (any 12 consecutive month period). The maximum annual UV printing ink limit based on EPA emission factor of .05 lb VOC emitted per lb of VOC in ink applied, and a maximum ink VOC content of 2.0 percent. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of UV press printing ink used each month shall be added to the amount used for the preceding 11 months to get lb/yr. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Maintain records of the following: a. the VOC content/density of each UV ink as applied in lb/gallon. b. the efficiency of each UV ink as applied, c. the EPA emission factor used in calculations of each UV ink as applied d. the trade name, SDS sheets of each UV ink as applied. Records should be readily available to NJDEP and USEPA upon request. [N.J.A.C. 7:27-22.16(o)]	None.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Total Throughput <= 85,000 lb/yr of low VOC coating (any 12 consecutive month period). Maximum annual usage of low VOC coating with an emission factor of 1.0 and VOC coating content equal to or less than 0.1% by weight. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of coating used each month shall be added to the amount used for the preceding 11 months to get lb/yr. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Records shall be maintiained of maximum VOC content of low aqueous coating minus water in lb/gal. [N.J.A.C. 7:27-22.16(o)]	None.
8	Total Throughput <= 30,600 lb/yr of High VOC coating (any 12 consecutive month period). Maximum annual usage of high VOC coating with an emission factor of 1.0 and VOC coating content greater than 0.1% by weight and less than or equal to 2.5% by weight. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of coating used each month shall be added to the amount used for the preceding 11 months to get lb/yr. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Records shall be maintained of maximum VOC content of high VOC coating minus water in lb/gal. [N.J.A.C. 7:27-22.16(o)]	None.
9	Total Throughput <= 332 gal/yr (any 12 consecutive month period). The maximum annual consumption of all the designated fountain solutions alcohol replacement based on emission factor of 1.0 and a maximum VOC content of 6.45 lb/gal. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of fountain solution alcohol replacement applied for each month shall be added to the amount applied for the preceding 11 months to get gal/yr. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
10	Total Throughput <= 665 gal/yr of fountain solution concentrate (any 12 consecutive month period). The maximum annual consumption of all the designated fountain solution concentrate based on emission factor of 1.0 and a maximum VOC content of 0.1 lb/gal. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of fountain solution concentrate in gal /month applied for each month shall be added to the amount applied for the preceding 11 months to get gal/yr. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection Facility Specific Requirements

Date: 5/21/2025

	Facility Specific Requirements			
Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	VOC (Total) <= 5.1 lb/hr Where: Lb VOC lb/hr printing = VOC lb/hr from ink + VOC lb/hr from coating + VOC lb/hr from Fountain solution concentrate + VOC lb/hr from Alcohol Replacement VOC lb/hr from Ink= [conventional ink use in lb per hour from ink use estimator x 0.1 x 0.05] + [UV ink use in lb per hour from ink use estimator x 0.02 x 0.05] VOC lb/hr from coating = [(low VOC coating use in lb coating/hr of press x VOC content of low VOC coating in % by weight (lb VOC/lb Coating)) + (High VOC coating use in lb coating/hr x VOC content of High VOC coating in % by weight (lb VOC/lb Coating))] low VOC coating has a VOC content of less than or equal to 0.1%. high VOC coating has a VOC content of greater 0.1% and less than or equal to 2.5% VOC Lb/hr from FS concentrate = ((lb/hr of ink applied)/102 x FS concentrate usage in gal/hr) x (0.1 lbVOC/gal) VOC Lb/hr from FS alcohol replacement = ((lb/hr of ink applied)/286 x FS alcohol replacement usage in gal/hr) x (6.45 lbVOC/gal) FS: fountain solutions	VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. This shall be calculated based on the calculated hourly emissions from the application of ink, application of coating, use of fountain solution concentrate, and fountain solution alcohol replacement. These are the hourly emission rates calculated in the applicable requirements in OS39. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.
ĺ	. [N.J.A.C. 7:27-22.16(a)]			

New Jersey Department of Environmental Protection Facility Specific Requirements

D 6 //				
Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	Maximum sustained press speed <=9,000 impressions per hour. The maximum potential press speed shall be 9,000 impressions per hour. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination. The maximum press speed shall be documented. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially Maitain records from Ink mileage estimator of press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.
13	HAPs (Total): Potential emissions of all HAPs are below reporting thresholds established in N.J.A.C 7:27-17. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Total Throughput <= 48.5 lb/hr of ink. Based on documentation of construction and Ink Mileage Estimator Ink Mileage Estimator USA (hubergroup.com) or an equivalent estimator. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a 1 hour block average. The hourly ink throughput shall be calculated monthly based on monthly calculated ink thoughput and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
15	VOC (Total) <= 2 % by weight. The VOC content of any UV ink applied shall not exceed 2% by weight. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	
16	VOC (Total) <= 10 % by weight. The VOC content of any conventional ink applied shall not exceed 10% by weight. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	
17	Total Throughput <= 82.7 lb/hr of coatings. Based on an application rate for coatings of 0.7 lb per thousand square feet printable area and documentation of construction, which shall include maximum print width, maximum print length, and maximum speed (net impressions per hour). [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a 1 hour block average. The hourly coating throughput shall be calculated monthly based on monthly calculated coating thoughput and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
18	VOC (Total) <= 2.5 % by weight. The VOC content of any high VOC coating applied shall be greater than 0.1% and shall be less than or equal to 2.5% by weight. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	

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New Jersey Department of Environmental Protection Facility Specific Requirements

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	VOC (Total) <= 0.1 % by weight. The VOC content of any low VOC coating applied shall not exceed 0.1% by weight for low VOC coating. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	
20	Total Throughput <= 1.06 gal/hr of Fountain Solution Concentrate. Based on maximum ink use using the Ink Mileage Estimator Ink Mileage Estimator USA (hubergroup.com) or equivalent, and site-specific usage rates of fountain solution concentrate per unit of ink usage. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a 1 hour block average. The hourly fountain solution concentrate throughput shall be calculated monthly based on monthly calculated foutain solution concentrate throughput and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
21	VOC (Total) <= 0.1 lb/gal. The VOC content of any fountain solution conentrate shall not exceed 0.1 pounds per gallon. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	
22	Total Throughput <= 0.51 gal/hr of Fountain Solution Alcohol Replacement. Based on maximum ink use using the Ink Mileage Estimator Ink Mileage Estimator USA (hubergroup.com) or equivalent, and site-specific usage rates of fountain solution alcohol replacement per unit of ink usage. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a 1 hour block average. The hourly fountain solution alcohol replacement throughput shall be calculated monthly based on monthly calculated fountain solution alcohol replacement throughput and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
23	VOC (Total) <= 6.45 lb/gal. The VOC content of any fountain solution alcohol replacement shall not exceed 6.45 pounds per gallon. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	
24	VOC (Total) <= 0.54 lb/hr. The maximum VOC emission rate from the application of ink shall not exceed 0.54 pounds per hour. This limit is based on maximum ink usage rate, maximum VOC ink content of 10%, and USEPA emission factor 0.05 lb VOC emitted per lb VOC in ink applied. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. The VOC emissions from the application of inks shall be calculated based on the amount of ink applied in a month in pounds, a VOC concentration of 10%, a VOC emission factor of 0.05 lb of VOC emitted to lb of VOC in ink applied, and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
25	VOC (Total) <= 1.21 lb/hr. The maximum VOC emission rate from the application of coating shall not exceed 1.21 pounds per hour. The basis for this allowable VOC emission rate is the E20 press design specifications and operating limitations and an application rate for coatings of 0.7 pounds per 1000 square feet. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. The VOC emissions from the application of aqueous coatings shall be calculated based on the amount of coatings applied in pounds during the month, weighted VOC aqueous coating concentration, and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
26	VOC (Total) <= 0.11 lb/hr. The maximum VOC emission rate from the use of fountain solution concentrate shall not exceed 0.11 pounds per hour. This shall be based on maximum hourly potential ink use, and ratio of ink application rate to fountain solution concentrate use rate of 102. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. The VOC emissions from the use of fountain solution concentrate shall be calculated with the following data: fountain solution concentrate usage in gallons, weighted average of VOC content of fountain solution concentrate used in pounds per gallon, and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
27	VOC (Total) <= 3.3 lb/hr. The maximum VOC emission rate from the use of fountain solution alcohol replacement shall not exceed 3.3 pounds per hour. This shall be based on maximum hourly potential ink use, and ratio of ink application rate to fountain solution alcohol replacement use rate of 286. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. The VOC emissions from the use of fountain solution alcohol replacement shall be calculated with the following data: fountain solution alcohol replacement usage rate in gallons, weighted average VOC content of fountain solution alcohol replacement used in pounds per gallon, and monthly run time. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
28	Maximum print width <= 40 inches. The maximum print width shall be 40 inches. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination. The maximum print width shall be documented. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain records from Ink mileage estimator, press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
29	Maximum print length <= 27.74 inches. The maximum print length shall be 27.74 inches. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination. The maximum print width shall be documented. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain records from Ink mileage estimator, press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.
30	There shall be no more than 6 print stations. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination. The maximum number of print stations shall be documented. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain records from Ink mileage estimator, press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.
31	Only one side shall be printed at a time. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination. The press shall be designed and operated to be able to print up to two sides at a time. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain records from Ink mileage estimator, press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.
32	The maximum ink coverage shall be 320%. The coverage factor shall be the maximum amount of ink applied across all stations as a percentage of the printable area. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination . [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain records from Ink mileage estimator, press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
33	VOC Content per Volume of Coating (Minus Water) > 2.9 lb/gal If any surface coating is applied with a VOC content in excess of 2.9 pounds per gallon, the daily weighted mean of the VOC content of the surface coating formulations as applied to E20 shall not exceed 2.9 pounds per gallon. [N.J.A.C. 7:27-16.7(c)3]	VOC Content per Volume of Coating (Minus Water): Monitored by calculations upon occurrence of event, based on one calendar day. The following shall be monitored: number of different surface coating formulations applied in one day; VOC content per volume of each surface coating formulation (minus water) applied in one day, in pounds per gallon; and volume of each surface coating formulation (minus water) applied in one day, in gallons . [N.J.A.C. 7:27-22.16(o)]	VOC Content per Volume of Coating (Minus Water): Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The following shall be recorded: number of surface coating formulations applied in one day; VOC content per volume of each surface coating formulation (minus water) applied in one day, in pounds per gallon; volume of each surface coating formulation (minus water) applied in one day, in gallons; daily mean VOC Content calculations conducted pursuant to N.J.A.C. 7:27-16.7(c)3. and trade name and SDS information on each surface coating formulation used in the calculations. [N.J.A.C. 7:27-22.16(o)]	
34	VOC content of fountain solution <= 5% by weight or <= 8.5% VOC by weight as applied and the fountain solution refrigerated to < 60 Fahrenheit. [N.J.A.C. 7:27-16.7(s)2]	Monitored by formulation data per change of material. The permittee shall document that each coating is VOC compliant using standard formulation sheets, MSDS forms, or the results of analytical tests. If VOC content is >= 5.0% by weight the fountain solution chiller temperature shall be monitored with a temperature guage continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. The applicant shall maintain records of the VOC content of each formulation as applied. When a fountain solution contains >5% VOC as applied, the chiller temperature shall be recorded daily. The permittee shall maintain the required records for a period of no less than five years. [N.J.A.C. 7:27-16.7(s)3]	None.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
35	HAPs (Total): There shall be no air contaminants emitted at a rate from E20 that exceeds the applicable threshold for reporting emissions set forth in N.J.A.C. 7:27-17.9(a). This shall include the combined emissions from the printing and cleaning operations of E20. [N.J.A.C. 7:27-22.16(a)]	HAPs (Total): Monitored by material balance each month during operation, based on a 12-operating-month rolling average. When any conventional ink, UV ink, coating, fountain solution concentrate, fountain solution alcohol replacement, or cleaning solution that contains any substances listed in N.J.A.C. 7:27-17.9(a) is used by E20, the air contaminant mass emissions of that substance shall be calculated. The methodology used to calculate the air contaminant mass emissions shall replicate the applicable methodology used to determine the VOC emissions for the individual piece of equipment. [N.J.A.C. 7:27-22.16(o)]	HAPs (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The monthly emissions of any substance in N.J.A.C. 7:22-17.9(a) shall be recorded. This shall include the combined emissions from the printing and cleaning operations. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection Facility Specific Requirements

Date: 5/21/2025

Emission Unit: U1 The entire printing operation

Operating Scenario: OS40 The cleaning operation for E20, KBA41-3, between jobs and during makeready

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The Permittee shall maintain records for each cleaning solution including each change of diluent or concentration of diluent as applied. [N.J.A.C. 7:27-16.7(n)] & [N.J.A.C. 7:27-22.16(a)]	Other: The method(s) to be used to determine the composition of each cleaning solution may include utilization of standard formulation sheets, material safety data sheets, the results of analytical tests, or other methods approved in advance and provided that the required information can be readily extracted from the documents. [N.J.A.C. 7:27-16.7(o)] &[N.J.A.C. 7:27-22.16(o)].	Other: Document and maintain all records in an operating logbook or readily accessible computer memories. The Permittee shall record the following for each cleaning solution used, a. The trade name and series number of each cleaning solution used. b. The VOC content of each cleaning solution used. c. The volume of each cleaning solution applied; d. The density of VOC in each cleaning solution[N.J.A.C. 7:27-22.16(o)].	None.
2	Any cleaning material used on any lithographic or letterpress printing press shall: i.Have a composite VOC vapor pressure less than 10 mm Hg at 20 degrees Celsius; or ii.Have a VOC content of less than 70 percent by weight. [N.J.A.C. 7:27-16.7(r)2]	Monitored by formulation data per change of material. The permittee shall document that each cleaning solution used is compliant using standard formulation sheets, SDS forms, or the results of analytical tests. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material The permittee shall record the % VOC by weight and/or vapor pressure of each formulation used. The permittee shall maintain the required records for a period of no less than five years. [N.J.A.C. 7:27-16.7(r)5]	None.
3	No greater than a total of 110 gallons per calendar year of cleaning materials that do not meet one of the requirements above in Ref. #2 may be used to clean a lithographic or letterpress printing press [N.J.A.C. 7:27-16.7(r)3]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The amount of cleaning material (that does not comply with Ref. #2 above) used during each calendar month and total year to date shall be recorded and maintained on site for a period no less than five years. [N.J.A.C. 7:27-16.7(r)5]	None.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	A cleaning material used to clean a lithographic or letterhead printing operation is not required to meet Ref. #2 above for cleaning electronic components of a press, pre-press cleaning operations (for example, platemaking), post-press cleaning operations (for example, binding), or cleaning performed in parts washers or cold cleaners. [N.J.A.C. 7:27-16.7(r)4]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The amount of cleaning material used to clean electronic components of a press, pre-press cleaning operations, post-press cleaning operations, or cleaning performed in parts washers or cold cleaners used each calendar month and total year to date must be recorded and maintained on site for a period no less than five years. [N.J.A.C. 7:27-16.7(r)5]	None.
5	VOC (Total) <= 3.2 tons/yr Where: VOC tpy cleaning = VOC tpy from Non-Conforming Solvent + VOC tpy from Conforming Solvent VOC tpy from Non- Conforming Solvent = [110 gallons per year of Non- Conforming Solvent x VOC content of Non- Conforming Solvent 7.34(lb/gal)]/2000 lb/ton VOC tpy from Conforming Solvent = [gallons Conforming Solvent use per year x VOC content of Conforming Solvent (6.37 lb/gal) x 0.5]/2000 lb/ton Conforming solvent: i.Has a composite VOC vapor pressure less than 10 mm Hg at 20 degrees Celsius; or ii.Has a VOC content of less than 70 percent by weight. Non-Conforming solvent = i.Has a composite VOC vapor pressure greater than 10 mm Hg at 20 degrees Celsius; and	VOC (Total): Monitored by material feed/flow monitoring each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Document and maintain all records in an operating logbook or readily accessible computer memories. The Permittee shall record the following for each cleaning solution used, a. The trade name and series number of each cleaning solution/solvent used. b. The VOC content of each cleaning solution as applied. c. The volume of each cleaning solution/solvent applied in gallons/year as applied d. The density of VOC in each cleaning solution. [N.J.A.C. 7:27-22.16(o)]	None.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Total Throughput <= 1,775 gal/yr (any 12 consecutive month period) for conforming solvent (wipe clean) with a maximum VOC content of 6.37 lb VOC/gal and efficiency of 0.5. Conforming solvent: i.Has a composite VOC vapor pressure less than 10 mm Hg at 20 degrees Celsius; or ii.Has a VOC content of less than 70 percent by weight [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of clean solutions consumed for each month shall be added to the amount consumed for the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
7	Total Throughput <= 110 gal/yr (any 12 consecutive month period) from non-conforming solvent with a maximum VOC Content of 7.34 lb VOC/gal. A non-conforming solvent: i.Has a composite VOC vapor pressure greater than 10 mm Hg at 20 degrees Celsius; and ii.Has a VOC content of greater than 70 percent by weight. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of clean solutions consumed for each month shall be added to the amount consumed for the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
8	HAPs (Total): . All HAPs emitted from the cleaning process are below the reporting thresholds [N.J.A.C. 7:27-22.16(a)]	HAPs (Total): Monitored by material balance each month during operation. Keep records of hours of operation of printing monthly and yearly. [N.J.A.C. 7:27-22.16(o)]	HAPs (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Keep records of hours of operation for printing monthly and yearly. [N.J.A.C. 7:27-22.16(o)]	None.
9	The print stations multipled by the width in inches and multipllied by the sides shall be 240. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction once initially, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	VOC (Total) <= 7.34 lb/gal. The VOC content of any non-conforming cleaning solvent used shall not exceed 7.34 pounds VOC per gallon. A non-conforming solvent: i.Has a composite VOC vapor pressure greater than 10 mm Hg at 20 degrees Celsius; and ii.Has a VOC content of greater than 70 percent by weight. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. Each time a new cleaning solvent is used, its VOC content shall be monitored. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. Each time a new cleaning solvent is used, its VOC content shall be recorded. [N.J.A.C. 7:27-22.16(o)]	
11	VOC (Total) <= 6.37 lb/gal. The VOC content of any conforming cleaning solvent shall not exceed 6.37 pounds VOC per gallon. Conforming solvent: i.Has a composite VOC vapor pressure less than 10 mm Hg at 20 degrees Celsius; or ii.Has a VOC content of less than 70 percent by weight. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	
12	Total Throughput <= 1 gal/hr. The sum of non-conforming solvent throughput and and conforming solvent throughput used shall not exceed 1.0 gallons per hour. The maximum hourly throughput is based on specific solvent usage rates and design parameters. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a 1 hour block average. The hourly conforming and non-conforming solvent throughput shall be calculated monthly based on monthly conforming and non-conforming solvent usage and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	VOC (Total) <= 7.3 lb/hr. The maximum VOC emission rate from the application of all cleaning solvents shall not exceed 7.3 pounds per hour. This is based on press designn specifications. specifice solvent usage rates, and weighted VOC solvent content. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. The VOC emissions from the use of cleaning solvents shall be calculated based on the total monthly usage of all cleaning solvent in gallons, the weighted VOC pounds per gallon content of the cleaning solvent, run hours during the month, an efficiency/release factor of 0.5 for conforming solvents, and an efficiency/release factor of 1.0 for non-conforming solvents. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
14	HAPs (Total): There shall be no air contaminants emitted at a rate from E20 that exceeds the applicable threshold for reporting emissions set forth in N.J.A.C. 7:27-17.9(a) from E20. This shall include the combined emissions from the printing and cleaning operations. [N.J.A.C. 7:27-22.16(a)]	HAPs (Total): Monitored by material balance each month during operation, based on a 12-operating-month rolling average. When any conventional ink, UV ink, coating, fountain solution concentrate, fountain solution alcohol replacement, or cleaning solution that contains any substances listed in N.J.A.C. 7:27-17.9(a) is used by E20, the air contaminant mass emissions of that substance shall be calculated. The methodology used to calculate the air contaminant mass emissions shall replicate the applicable methodology used to determine the VOC emissions for the individual piece of equipment. [N.J.A.C. 7:27-22.16(o)]	HAPs (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The monthly emissions of any substance in N.J.A.C. 7:22-17.9(a) shall be recorded. This shall include the combined emissions from the printing and cleaning operations. [N.J.A.C. 7:27-22.16(o)]	None.

UNIMAC GRAPHICS (02842) BOP220001

Date: 5/21/2025

New Jersey Department of Environmental Protection Facility Specific Requirements

Emission Unit: U1 The entire printing operation

OS41 Printing Operation, E21, 8 Color Heidelberg Sheetfed Press **Operating Scenario:**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC content of fountain solution <= 5% by weight or <= 8.5% VOC by weight as applied and the fountain solution refrigerated to < 60 Fahrenheit. [N.J.A.C. 7:27-16.7(s)2]	Monitored by formulation data per change of material. The permittee shall document that each coating is VOC compliant using standard formulation sheets, MSDS forms, or the results of analytical tests. If VOC content is >= 5.0% by weight the fountain solution chiller temperature shall be monitored with a temperature guage continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. The applicant shall maintain records of the VOC content of each formulation as applied. When a fountain solution contains >5% VOC as applied, the chiller temperature shall be recorded daily. The permittee shall maintain the required records for a period of no less than five years. [N.J.A.C. 7:27-16.7(s)3]	None.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	
2	The Permittee shall maintain records of the VOC content of each surface coating formulation (minus water) as applied, in pounds of VOC per gallon of coating or kilograms of VOC per liter of coating; the percent by weight of any exempt organic substance; and the daily volume of each surface coating formulation applied. [N.J.A.C. 7:27-16.7(m)] & [N.J.A.C. 7:27-22.16(a)]	Other: The method(s) to be used to determine the composition of the surface coating ink, varnish, aqueous coating or fountain solution may include utilization of standard formulation sheets, material safety data sheets, the results of analytical tests, or other methods approved in advance and provided that the required information can be readily extracted from the documents. [N.J.A.C. 7:27-16.7(o)] &[N.J.A.C. 7:27-22.16(o)].	Other: Document and maintain all records in an operating logbook or readily accessible computer memories. The Permittee shall record the following for each surface coating ink, varnish and fountain solution including each change of diluent or concentration of diluent as applied, a. The trade name and series number of each ink, varnish and fountain solution used. b. The volume or weight of each surface coating ink, varnish or fountain solution applied; c. The density of each surface coating ink, varnish or fountain solution; d. The density of the VOC in each surface coating ink, varnish or fountain solution; e. The percent by weight of VOC in each surface coating ink or varnish; f. The percent by weight of any exempt organic substance in each surface coating ink, or varnish g. The percent by weight of any water in each surface coating ink or varnish; h. The percent by volume of water in the fountain solution. [N.J.A.C. 7:27-22.16(o)].	None.	
3	VOC Content per Volume of Coating (Minus Water) <= 2.9 lb/gal. The maximum VOC content per volume of surface coating. [N.J.A.C. 7:27-16.7(c)1]	Other: Monitor the formulation of each surface coating (printing ink) used. The method(s) to be used to determine the composition of the surface coating formulation may include utilization of standard formulation sheets, material safety data sheets, the results of analytical tests, or other methods approved in advance and provided that the required information can be readily extracted from the documents. [N.J.A.C. 7:27-16.7(o)] &[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of the VOC content of each surface coating formulation (minus water) as applied, in pounds of VOC per gallon of coating; the percent by weight of any exempt organic substance; and the daily volume of each surface coating formulation applied. [N.J.A.C. 7:27-16.7(m)] &[N.J.A.C. 7:27-22.16(o)].	None.	

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VOC (Total) <= 1.7 tons/yr for printing operation, Where: VOC Tons per year (tpy) = [(VOC tpy from ink) + (VOC tpy from coating) + (VOC tpy from Fountain solution) + (VOC tpy from Alcohol Replacement)] VOC tpy from Ink= [(Conventional ink use in lb/yr of press x VOC content of Conventional ink in % x 0.05) + (UV ink use in lb/yr of press x VOC content of UV ink in % x 0.05)]/2000(lb/ton) VOC tpy from coating = [(low VOC coating use in lb coating/yr of press x VOC content of low VOC coating in % by weight (lb VOC/lb Coating)) + (High VOC coating use in lb coating/yr x VOC content of High VOC coating in % by weight (lb VOC/lb Coating))]/2000 (lb/ton). low VOC coating has a VOC content of less than or equal to 0.1% by weight. high VOC coating has a VOC content of greater than 0.1% and less than or equal to 2.5% by weight. VOC tpy from FS concentrate = [Amount of FS concentrate used in gal/yr x VOC content of FS alcohol replacement = [Amount of FS alcohol aeplacement used in gal/yr x VOC content of FS alcohol aeplacement used in gal/yr x VOC content of FS alcohol		Recordkeeping Requirement VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Maintain records of the following: a. the VOC content/density of each Conventional ink, UV ink, each Coating, and Fountain Solution Concentrate and Alchohol replacement as applied in lb/gallon. b. the EPA emission factor used in calculations of each Conventional ink, UV ink, each Coating, Fountain Solution and Alchohol replacement as applied c. the trade name, SDS sheets of each Conventional ink, UV ink, each Coating, and Fountain Solution Concentrate and Alchohol replacement as applied. Records should be readily available to NJDEP and USEPA upon request. [N.J.A.C. 7:27-22.16(o)]	Submittal/Action Requirement Submit a report: Upon occurrence of event at the request of USEPA and NJDEP. [N.J.A.C. 7:27-22.16(o)]

	Facinity Specific Requirements			
Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	Total Throughput <= 23,120 lb/yr of conventional ink (any 12 consecutive month period). The maximum annual conventional ink limit based on EPA emission factor of 0.05 lb VOC emitted per lb of VOC in ink applied and a maximum ink VOC content of 10 percent. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of conventional press printing ink used each month shall be added to the amount used for the preceding 11 months to get lb/yr. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Maintain records of the following: a. the VOC content/density of each Conventional ink as applied in lb/gallon. b. the efficiency of each Conventional ink as applied, e. the EPA emission factor used in calculations of each Conventional ink as applied f. the trade name, SDS sheets of each Conventional ink as applied. Records should be readily available to NJDEP and USEPA upon request. [N.J.A.C. 7:27-22.16(o)]	None.
6	Total Throughput <= 20,400 lb/yr UV ink (any 12 consecutive month period). The maximum annual printing ink limit based on EPA emission factor of .05 lb VOC emitted per lb of VOC in ink applied, and a maximum ink VOC content of 2.0%. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of UV press printing ink used each month shall be added to the amount used for the preceding 11 months to get lb/yr. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Maintain records of the following: a. the VOC content/density of each UV ink as applied in lb/gallon. b. the efficiency of each UV ink as applied, e. the EPA emission factor used in calculations of each UV ink as applied f. the trade name, SDS sheets of each UV ink as applied. Records should be readily available to NJDEP and USEPA upon request. [N.J.A.C. 7:27-22.16(o)]	None.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Total Throughput <= 59,925 lb/yr of low VOC coating (any 12 consecutive month period). Maximum annual usage of low VOC coating with an emission factor of 1.0 and VOC coating content equal to or less than 0.1% by weight. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of coating used each month shall be added to the amount used for the preceding 11 months to get lb/yr. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation keep records of maximum VOC content of low aqueous coating minus water in lb/gal. [N.J.A.C. 7:27-22.16(o)]	None.
8	Total Throughput <= 29,563 lb/yr of High VOC coating (any 12 consecutive month period). Maximum annual usage of high VOC coating with an emission factor of 1.0 and VOC coating content greater than 0.1% by weight and less than or equal to 2.5% by weight. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of coating used each month shall be added to the amount used for the preceding 11 months to get lb/yr. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation keep records of maximum VOC content of high VOC coating minus water in lb/gal. [N.J.A.C. 7:27-22.16(o)]	None.
9	Total Throughput <= 371 gal/yr (any 12 consecutive month period). The maximum annual consumption of all the designated fountain solutions alcohol replacement based on emission factor of 1.0 and a maximum VOC content of 6.45 lb/gal. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of fountain solution alcohol replacement applied for each month shall be added to the amount applied for the preceding 11 months to get gal/yr. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
10	Total Throughput <= 741 gal/yr of fountain solution concentrate (any 12 consecutive month period). The maximum annual consumption of all the designated fountain solution concentrate based on emission factor of 1.0 and a maximum VOC content of 0.1 lb/gal. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of fountain solution concentrate in gal /month applied for each month shall be added to the amount applied for the preceding 11 months to get gal/yr. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
	VOC (Total) <= 8.7 lb/hr Where: Lb VOC lb/hr printing = VOC lb/hr from ink + VOC lb/hr from coating + VOC Lb/hr from Fountain solution concentrate + VOC lb/hr from Alcohol Replacement VOC lb/hr from Ink= [conventional ink use in lb per hour from ink use estimator x 0.1 x 0.05] + [UV ink use in lb per hour from ink use estimator x 0.02 x 0.05] VOC lb/hr from coating = [(low VOC coating use in lb coating/hr of press x VOC content of low VOC coating in % by weight (lb VOC/lb Coating)) + (High VOC coating use in lb coating/hr x VOC content of High VOC coating in % by weight (lb VOC/lb Coating))] low VOC coating has a VOC content of less than or equal to 0.1%. high VOC coating has a VOC content of greater 0.1% and less than or equal to 2.5% VOC Lb/hr from FS concentrate = ((lb/hr of ink applied)/102 x FS concentrate usage in gal/hr) x (0.1 lbVOC/gal) VOC Lb/hr from FS alcohol replacement = ((lb/hr of ink applied)/286 x FS alcohol replacement usage in gal/hr) x (6.45 lbVOC/gal) FS: fountain solutions . [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. This shall be calculated based on the calculated hourly emissions from the application of ink, application of coating, use of fountain solution concentrate, and fountain solution alcohol replacement. These are the hourly emission rates calculated in the applicable requirements in OS41. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	Maximum sustained press speed <=15,000 impressions per hour. The maximum potential press speed shall be 15,000 impressions per hour. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination. The maximum press speed shall be documented. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially Maitain records from Ink mileage estimator of press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.
13	HAPs (Total): Potential emissions of all HAPs are below reporting thresholds established in N.J.A.C 7:27-17. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Total Throughput <= 184.3 lb/hr of ink. Based on documentation of construction and Ink Mileage Estimator Ink Mileage Estimator USA (hubergroup.com) or an equivalent estimator. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a 1 hour block average. The hourly ink throughput shall be calculated monthly based on monthly calculated ink thoughput and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
15	VOC (Total) <= 2 % by weight. The VOC content of any UV ink applied shall not exceed 2% by weight. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	
16	VOC (Total) <= 10 % by weight. The VOC content of any conventional ink applied shall not exceed 10% by weight. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	
17	Total Throughput <= 82.7 lb/hr of coatings. Based on an application rate for coatings of 0.7 lb per thousand square feet printable area and documentation of construction, which shall include maximum print width, maximum print length, and maximum speed (net impressions per hour). [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a 1 hour block average. The hourly coating throughput shall be calculated monthly based on monthly calculated coating thoughput and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
18	VOC (Total) <= 2.5 % by weight. The VOC content of any high VOC coating applied shall not exceed 2.5% by weight. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	VOC (Total) <= 0.1 % by weight. The VOC content of any low VOC coating applied shall not exceed 0.1% by weight for low VOC coating. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	
20	Total Throughput <= 1.81 gal/hr of Fountain Solution Concentrate. Based on maximum ink use using the Ink Mileage Estimator Ink Mileage Estimator USA (hubergroup.com) or equivalent, and site-specific usage rates of fountain solution concentrate per unit of ink usage. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a 1 hour block average. The hourly fountain solution concentrate throughput shall be calculated monthly based on monthly calculated foutain solution concentrate thoughput and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
21	VOC (Total) <= 0.1 lb/gal. The VOC content of any fountain solution conentrate shall not exceed 0.1 pounds per gallon. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	
22	Total Throughput <= 0.86 gal/hr of Fountain Solution Alcohol Replacement. Based on maximum ink use using the Ink Mileage Estimator Ink Mileage Estimator USA (hubergroup.com) or equivalent, and site-specific usage rates of fountain solution alcohol replacement per unit of ink usage. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a 1 hour block average. The hourly fountain solution alcohol replacement throughput shall be calculated monthly based on monthly calculated fountain solution alcohol replacement thoughput and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
23	VOC (Total) <= 6.45 lb/gal. The VOC content of any fountain solution alcohol replacement shall not exceed 6.45 pounds per gallon. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	
24	VOC (Total) <= 0.92 lb/hr. The maximum VOC emission rate from the application of ink shall not exceed 0.92 pounds per hour. This limit is based on maximum ink usage rate, maximum VOC ink content of 10%, and USEPA emission factor 0.05 lb VOC emitted per lb VOC in ink applied. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. The VOC emissions from the application of inks shall be calculated based on the amount of ink applied in a month in pounds, a VOC concentration of 10%, a VOC emission factor of 0.05 lb of VOC emitted to lb of VOC in ink applied, and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
25	VOC (Total) <= 2.07 lb/hr. The maximum VOC emission rate from the application of coating shall not exceed 2.07 pounds per hour. The basis for this allowable VOC emission rate is the E21 press design specifications and operating limitations and an application rate for coatings of 0.7 pounds per 1000 square feet. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. The VOC emissions from the application of aqueous coatings shall be calculated based on the amount of coatings applied in pounds during the month, wieghted VOC aqueous coating concentration, and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	Submittal/Action Requirement
26	VOC (Total) <= 0.18 lb/hr. The maximum VOC emission rate from the use of fountain solution concentrate shall not exceed 0.18 pounds per hour. This shall be based on maximum hourly potential ink use, and ratio of ink application rate to fountain solution concentrate use rate of 102. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. The VOC emissions from the use of fountain solution concentrate shall be calculated with the following data: fountain solution concentrate usage in gallons, weighted average of VOC content of fountain solution concentrate used in pounds per gallon, and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
27	VOC (Total) <= 5.5 lb/hr. The maximum VOC emission rate from the use of fountain solution alcohol replacement shall not exceed 5.5 pounds per hour. This shall be based on maximum hourly potential ink use, and ratio of ink application rate to fountain solution alcohol replacement use rate of 286. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. The VOC emissions from the use of fountain solution alcohol replacement shall be calculated with the following data: fountain solution alcohol replacement usage rate in gallons, weighted average VOC content of fountain solution alcohol replacement used in pounds per gallon, and monthly run time. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
28	Maximum print width <= 40.34 inches. The maximum print width shall be 40.34 inches. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination. The maximum print width shall be documented. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain records from Ink mileage estimator, press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
29	Maximum print length <= 28.13 inches. The maximum print length shall be 28.13 inches. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination. The maximum print width shall be documented. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain records from Ink mileage estimator, press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.
30	There shall be no more than 8 print stations. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination. The maximum number of print stations shall be documented. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain records from Ink mileage estimator, press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.
31	Only one side shall be printed at a time. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination. The press shall be designed and operated to be able to print up to two sides at a time. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain records from Ink mileage estimator, press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.
32	The maximum ink coverage shall be 320%. The coverage factor shall be the maximum amount of ink applied across all stations as a percentage of the printable area. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination . [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain records from Ink mileage estimator, press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
33	VOC Content per Volume of Coating (Minus Water) > 2.9 lb/gal If any surface coating is applied with a VOC content in excess of 2.9 pounds per gallon, the daily weighted mean of the VOC content of the surface coating formulations as applied to E21 shall not exceed 2.9 pounds per gallon. [N.J.A.C. 7:27-16.7(c)3]	VOC Content per Volume of Coating (Minus Water): Monitored by calculations upon occurrence of event, based on one calendar day. The following shall be monitored: number of different surface coating formulations applied in one day; VOC content per volume of each surface coating formulation (minus water) applied in one day, in pounds per gallon; and volume of each surface coating formulation (minus water) applied in one day, in gallons . [N.J.A.C. 7:27-22.16(o)]	VOC Content per Volume of Coating (Minus Water): Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The following shall be recorded: number of surface coating formulations applied in one day; VOC content per volume of each surface coating formulation (minus water) applied in one day, in pounds per gallon; volume of each surface coating formulation (minus water) applied in one day, in gallons; daily mean VOC Content calculations conducted pursuant to N.J.A.C. 7:27-16.7(c)3. and trade name and SDS information on each surface coating formulation used in the calculations. [N.J.A.C. 7:27-22.16(o)]	
34	VOC content of fountain solution <= 5% by weight or <= 8.5% VOC by weight as applied and the fountain solution refrigerated to < 60 Fahrenheit. [N.J.A.C. 7:27-16.7(s)2]	Monitored by formulation data per change of material. The permittee shall document that each coating is VOC compliant using standard formulation sheets, MSDS forms, or the results of analytical tests. If VOC content is >= 5.0% by weight the fountain solution chiller temperature shall be monitored with a temperature guage continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. The applicant shall maintain records of the VOC content of each formulation as applied. When a fountain solution contains >5% VOC as applied, the chiller temperature shall be recorded daily. The permittee shall maintain the required records for a period of no less than five years. [N.J.A.C. 7:27-16.7(s)3]	None.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
35	HAPs (Total): There shall be no air contaminants emitted at a rate from E21 that exceeds the applicable threshold for reporting emissions set forth in N.J.A.C. 7:27-17.9(a). This shall include the combined emissions from the printing and cleaning operations of E21. [N.J.A.C. 7:27-22.16(a)]	HAPs (Total): Monitored by material balance each month during operation, based on a 12-operating-month rolling average. When any conventional ink, UV ink, coating, fountain solution concentrate, fountain solution alcohol replacement, or cleaning solution that contains any substances listed in N.J.A.C. 7:27-17.9(a) is used by E21, the air contaminant mass emissions of that substance shall be calculated. The methodology used to calculate the air contaminant mass emissions shall replicate the applicable methodology used to determine the VOC emissions for the individual piece of equipment. [N.J.A.C. 7:27-22.16(o)]	HAPs (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The monthly emissions of any substance in N.J.A.C. 7:22-17.9(a) shall be recorded. This shall include the combined emissions from the printing and cleaning operations. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection Facility Specific Requirements

Date: 5/21/2025

Emission Unit: U1 The entire printing operation

Operating Scenario: OS42 Cleaning Operation, E21, 8 Color Heidelberg Sheetfed Press

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The Permittee shall maintain records for each cleaning solution including each change of diluent or concentration of diluent as applied. [N.J.A.C. 7:27-16.7(n)] & [N.J.A.C. 7:27-22.16(a)]	Other: The method(s) to be used to determine the composition of each cleaning solution may include utilization of standard formulation sheets, material safety data sheets, the results of analytical tests, or other methods approved in advance and provided that the required information can be readily extracted from the documents. [N.J.A.C. 7:27-16.7(o)] &[N.J.A.C. 7:27-22.16(o)].	Other: Document and maintain all records in an operating logbook or readily accessible computer memories. The Permittee shall record the following for each cleaning solution used, a. The trade name and series number of each cleaning solution used. b. The VOC content of each cleaning solution used. c. The volume of each cleaning solution applied; d. The density of VOC in each cleaning solution[N.J.A.C. 7:27-22.16(o)].	None.
2	Any cleaning material used on any lithographic or letterpress printing press shall: i.Have a composite VOC vapor pressure less than 10 mm Hg at 20 degrees Celsius; or ii.Have a VOC content of less than 70 percent by weight. [N.J.A.C. 7:27-16.7(r)2]	Monitored by formulation data per change of material. The permittee shall document that each cleaning solution used is compliant using standard formulation sheets, SDS forms, or the results of analytical tests. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material The permittee shall record the % VOC by weight and/or vapor pressure of each formulation used. The permittee shall maintain the required records for a period of no less than five years. [N.J.A.C. 7:27-16.7(r)5]	None.
3	No greater than a total of 110 gallons per calendar year of cleaning materials that do not meet one of the requirements above in Ref. #2 may be used to clean a lithographic or letterpress printing press [N.J.A.C. 7:27-16.7(r)3]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The amount of cleaning material (that does not comply with Ref. #2 above) used during each calendar month and total year to date shall be recorded and maintained on site for a period no less than five years. [N.J.A.C. 7:27-16.7(r)5]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	A cleaning material used to clean a lithographic or letterhead printing operation is not required to meet Ref. #2 above for cleaning electronic components of a press, pre-press cleaning operations (for example, platemaking), post-press cleaning operations (for example, binding), or cleaning performed in parts washers or cold cleaners. [N.J.A.C. 7:27-16.7(r)4]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The amount of cleaning material used to clean electronic components of a press, pre-press cleaning operations, post-press cleaning operations, or cleaning performed in parts washers or cold cleaners used each calendar month and total year to date must be recorded and maintained on site for a period no less than five years. [N.J.A.C. 7:27-16.7(r)5]	None.
5	VOC (Total) <= 3.2 tons/yr Where: VOC tpy cleaning = VOC tpy from Non-Conforming Solvent + VOC tpy from Conforming Solvent VOC tpy from Non- Conforming Solvent = [110 gallons per year of Non- Conforming Solvent x VOC content of Non- Conforming Solvent 7.34(lb/gal)]/2000 lb/ton VOC tpy from Conforming Solvent = [lb Conforming Solvent use per year x VOC content of Conforming Solvent (6.37 lb/gal) x 0.5]/2000 lb/ton Conforming solvent: i.Has a composite VOC vapor pressure less than 10 mm Hg at 20 degrees Celsius; or ii.Has a VOC content of less than 70 percent by weight. Non-Conforming solvent = i.Has a composite VOC vapor pressure greater than 10 mm Hg at 20 degrees Celsius; and ii.Has a VOC content greater than 70 percent by weight [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by material feed/flow monitoring each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Document and maintain all records in an operating logbook or readily accessible computer memories. The Permittee shall record the following for each cleaning solution used, a. The trade name and series number of each cleaning solution/solvent used. b. The VOC content of each cleaning solution as applied. c. The volume of each cleaning solution/solvent applied in gallons/year as applied d. The density of VOC in each cleaning solution. [N.J.A.C. 7:27-22.16(o)]	None.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Total Throughput <= 1,775 gal/yr (any 12 consecutive month period) for conforming solvent (wipe clean) with a maximum VOC content of 6.37 lb VOC/gal and efficiency of 0.5. Conforming solvent: i.Has a composite VOC vapor pressure less than 10 mm Hg at 20 degrees Celsius; or ii.Has a VOC content of less than 70 percent by weight [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of clean solutions consumed for each month shall be added to the amount consumed for the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
7	Total Throughput <= 110 gal/yr (any 12 consecutive month period) from non-conforming solvent with a maximum VOC Content of 7.34 lb VOC/gal. A non-conforming solvent: i.Has a composite VOC vapor pressure greater than 10 mm Hg at 20 degrees Celsius; and ii.Has a VOC content of greater than 70 percent by weight. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of clean solutions consumed for each month shall be added to the amount consumed for the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
8	HAPs (Total): . All HAPs emitted from the cleaning process are below the reporting thresholds [N.J.A.C. 7:27-22.16(a)]	HAPs (Total): Monitored by material balance each month during operation. Keep records of hours of operation of printing monthly and yearly. [N.J.A.C. 7:27-22.16(o)]	HAPs (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Keep records of hours of operation for printing monthly and yearly. [N.J.A.C. 7:27-22.16(o)]	None.
9	The print stations multipled by the width in inches and multiplied by the sides shall be 323. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction once initially, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	VOC (Total) <= 7.34 lb/gal. The VOC content of any non-conforming cleaning solvent used shall not exceed 7.34 pounds VOC per gallon. A non-conforming solvent: i.Has a composite VOC vapor pressure greater than 10 mm Hg at 20 degrees Celsius; and ii.Has a VOC content of greater than 70 percent by weight. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. Each time a new cleaning solvent is used, its VOC content shall be monitored. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. Each time a new cleaning solvent is used, its VOC content shall be recorded. [N.J.A.C. 7:27-22.16(o)]	
11	VOC (Total) <= 6.37 lb/gal. The VOC content of any conforming cleaning solvent shall not exceed 6.37 pounds VOC per gallon. Conforming solvent: i.Has a composite VOC vapor pressure less than 10 mm Hg at 20 degrees Celsius; or ii.Has a VOC content of less than 70 percent by weight. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	
12	Total Throughput <= 1.34 gal/hr. The sum of non-conforming solvent throughput and and conforming solvent throughput used shall not exceed 1.34 gallons per hour. The maximum hourly throughput is based on specific solvent usage rates and design parameters. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a 1 hour block average. The hourly conforming and non-conforming solvent throughput shall be calculated monthly based on monthly conforming and non-conforming solvent usage and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	VOC (Total) <= 9.9 lb/hr. The maximum VOC emission rate from the application of all cleaning solvents shall not exceed 9.9 pounds per hour. This is based on press designn specifications. specifice solvent usage rates, and weighted VOC solvent content. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. The VOC emissions from the use of cleaning solvents shall be calculated based on the total monthly usage of all cleaning solvent in gallons, the weighted VOC pounds per gallon content of the cleaning solvent, run hours during the month, an efficiency/release factor of 0.5 for conforming solvents, and an efficiency/release factor of 1.0 for non-conforming solvents. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
14	HAPs (Total): There shall be no air contaminants emitted at a rate from E21 that exceeds the applicable threshold for reporting emissions set forth in N.J.A.C. 7:27-17.9(a). This shall include the combined emissions from the printing and cleaning operations of E21. [N.J.A.C. 7:27-22.16(a)]	HAPs (Total): Monitored by material balance each month during operation, based on a 12-operating-month rolling average. When any conventional ink, UV ink, coating, fountain solution concentrate, fountain solution alcohol replacement, or cleaning solution that contains any substances listed in N.J.A.C. 7:27-17.9(a) is used by E21, the air contaminant mass emissions of that substance shall be calculated. The methodology used to calculate the air contaminant mass emissions shall replicate the applicable methodology used to determine the VOC emissions for the individual piece of equipment. [N.J.A.C. 7:27-22.16(o)]	HAPs (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The monthly emissions of any substance in N.J.A.C. 7:22-17.9(a) shall be recorded. This shall include the combined emissions from the printing and cleaning operations. [N.J.A.C. 7:27-22.16(o)]	None.

UNIMAC GRAPHICS (02842) BOP220001 Date: 5/21/2025

New Jersey Department of Environmental Protection Facility Specific Requirements

Emission Unit: U1 The entire printing operation

Operating Scenario: OS43 Printing Operation for E22, 7C HB64"

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC content of fountain solution <= 5% by weight or <= 8.5% VOC by weight as applied and the fountain solution refrigerated to < 60 Fahrenheit. [N.J.A.C. 7:27-16.7(s)2]	Monitored by formulation data per change of material. The permittee shall document that each coating is VOC compliant using standard formulation sheets, MSDS forms, or the results of analytical tests. If VOC content is >= 5.0% by weight the fountain solution chiller temperature shall be monitored with a temperature guage continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. The applicant shall maintain records of the VOC content of each formulation as applied. When a fountain solution contains >5% VOC as applied, the chiller temperature shall be recorded daily. The permittee shall maintain the required records for a period of no less than five years. [N.J.A.C. 7:27-16.7(s)3]	None.

New Jersey Department of Environmental Protection Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	The Permittee shall maintain records of the VOC content of each surface coating formulation (minus water) as applied, in pounds of VOC per gallon of coating or kilograms of VOC per liter of coating; the percent by weight of any exempt organic substance; and the daily volume of each surface coating formulation applied. [N.J.A.C. 7:27-16.7(m)] & [N.J.A.C. 7:27-22.16(a)]	Other: The method(s) to be used to determine the composition of the surface coating ink, varnish, aqueous coating or fountain solution may include utilization of standard formulation sheets, material safety data sheets, the results of analytical tests, or other methods approved in advance and provided that the required information can be readily extracted from the documents. [N.J.A.C. 7:27-16.7(o)] &[N.J.A.C. 7:27-22.16(o)].	Other: Document and maintain all records in an operating logbook or readily accessible computer memories. The Permittee shall record the following for each surface coating ink, varnish and fountain solution including each change of diluent or concentration of diluent as applied, a. The trade name and series number of each ink, varnish and fountain solution used. b. The volume or weight of each surface coating ink, varnish or fountain solution applied; c. The density of each surface coating ink, varnish or fountain solution; d. The density of the VOC in each surface coating ink, varnish or fountain solution; e. The percent by weight of VOC in each surface coating ink or varnish; f. The percent by weight of any exempt organic substance in each surface coating ink or varnish; h. The percent by volume of water in the fountain solution. [N.J.A.C. 7:27-22.16(o)].	None.
3	VOC Content per Volume of Coating (Minus Water) <= 2.9 lb/gal. The maximum VOC content per volume of aqueous surface coating. [N.J.A.C. 7:27-16.7(c)1]	Other: Monitor the formulation of each surface coating (printing ink) used. The method(s) to be used to determine the composition of the surface coating formulation may include utilization of standard formulation sheets, material safety data sheets, the results of analytical tests, or other methods approved in advance and provided that the required information can be readily extracted from the documents. [N.J.A.C. 7:27-16.7(o)] &[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of the VOC content of each surface coating formulation (minus water) as applied, in pounds of VOC per gallon of coating; the percent by weight of any exempt organic substance; and the daily volume of each surface coating formulation applied. [N.J.A.C. 7:27-16.7(m)] &[N.J.A.C. 7:27-22.16(o)].	None.

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New Jouges Depositment of Engineers and Ductooties

Date: 5/21/2025

New Jersey Department of Environmental Protection Facility Specific Requirements

Ref.# Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
VOC (Total) <= 1.7 tons/yr for printing operation, Where: VOC Tons per year (tpy) = [(VOC tpy from ink) + (VOC tpy from coating) + (VOC tpy from Fountain solution) + (VOC tpy from Alcohol Replacement)] VOC tpy from Ink= [(Conventional ink use in lb/yr of press x VOC content of Conventional ink in % x 0.05) + (UV ink use in lb/yr of press x VOC content of UV ink in % x 0.05)]/2000(lb/ton) VOC tpy from coating = [(low VOC coating use in lb coating/yr of press x VOC content of low VOC coating in % by weight (lb VOC/lb Coating)) + (High VOC coating use in lb coating/yr x VOC content of High VOC coating in % by weight (lb VOC/lb Coating))]/2000 (lb/ton). low VOC coating has a VOC content of less than or equal to 0.1%. high VOC coating has a VOC content of greater 0.1% VOC tpy from FS concentrate = [Amount of FS concentrate used in gal/yr x VOC content of FS concentrate used in gal/yr x VOC content of FS alcohol replacement = [Amount of FS alcohol replacement used in gal/yr x VOC content of FS alcohol replacement in lb/gallon] /2000 (lb/ton). FS: Fountain Solution. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Maintain records of the following: a. the VOC content/density of each Conventional ink, UV ink, each Coating, and Fountain Solution Concentrate and Alchohol replacement as applied in lb/gallon. b. the EPA emission factor used in calculations of each Conventional ink, UV ink, each Coating, Fountain Solution and Alchohol replacement as applied c. the trade name, SDS sheets of each Conventional ink, UV ink, each Coating, and Fountain Solution Concentrate and Alchohol replacement as applied. Records should be readily available to NJDEP and USEPA upon request. [N.J.A.C. 7:27-22.16(o)]	Submit a report: Upon occurrence of event at the request of USEPA and NJDEP. [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	Total Throughput <= 23,800 lb/yr of conventional ink (any 12 consecutive month period). The maximum annual conventional ink limit based on EPA emission factor of 0.05 lb VOC emitted per lb of VOC in ink applied and a maximum ink VOC content of 10 percent. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of conventional press printing ink used each month shall be added to the amount used for the preceding 11 months to get lb/yr. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Maintain records of the following: a. the VOC content/density of each Conventional ink as applied in lb/gallon. b. the efficiency of each Conventional ink as applied, c. the EPA emission factor used in calculations of each Conventional ink as applied d. the trade name, SDS sheets of each Conventional ink as applied. Records should be readily available to NJDEP and USEPA upon request. [N.J.A.C. 7:27-22.16(o)]	None.
6	Total Throughput <= 17,000 lb/yr UV ink (any 12 consecutive month period). The maximum annual UV printing ink limit based on EPA emission factor of .05 lb VOC emitted per lb of VOC in ink applied, and a maximum ink VOC content of 2.0 percent. . [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of UV press printing ink used each month shall be added to the amount used for the preceding 11 months to get lb/yr. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Maintain records of the following: a. the VOC content/density of each UV ink as applied in lb/gallon. b. the efficiency of each UV ink as applied, c. the EPA emission factor used in calculations of each UV ink as applied d. the trade name, SDS sheets of each UV ink as applied. Records should be readily available to NJDEP and USEPA upon request. [N.J.A.C. 7:27-22.16(o)]	None.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Total Throughput <= 59,925 lb/yr of low VOC coating (any 12 consecutive month period). Maximum annual usage of low VOC coating with an emission factor of 1.0 and VOC coating content equal to or less than 0.1% by weight. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of coating used each month shall be added to the amount used for the preceding 11 months to get lb/yr. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Records shall be maintained of maximum VOC content of low aqueous coating minus water in lb/gal. [N.J.A.C. 7:27-22.16(o)]	None.
8	Total Throughput <= 29,563 lb/yr of High VOC coating (any 12 consecutive month period). Maximum annual usage of high VOC coating with an emission factor of 1.0 and VOC coating content greater than 0.1% by weight and less than or equal to 2.5% by weight. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of coating used each month shall be added to the amount used for the preceding 11 months to get lb/yr. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Records shall be maintained of maximum VOC content of high VOC coating minus water in lb/gal. [N.J.A.C. 7:27-22.16(o)]	None.
9	Total Throughput <= 371 gal/yr (any 12 consecutive month period). The maximum annual consumption of all the designated fountain solutions alcohol replacement based on emission factor of 1.0 and a maximum VOC content of 6.45 lb/gal. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of fountain solution alcohol replacement applied for each month shall be added to the amount applied for the preceding 11 months to get gal/yr. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
10	Total Throughput <= 741 gal/yr of fountain solution concentrate (any 12 consecutive month period). The maximum annual consumption of all the designated fountain solution concentrate based on emission factor of 1.0 and a maximum VOC content of 0.1 lb/gal. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of fountain solution concentrate in gal /month applied for each month shall be added to the amount applied for the preceding 11 months to get gal/yr. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.

	Tuenty Specific Requirements			
Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	VOC (Total) <= 17.6 lb/hr Where: Lb VOC lb/hr printing = VOC lb/hr from ink + VOC lb/hr from coating + VOC lb/hr from Fountain solution concentrate + VOC lb/hr from Alcohol Replacement VOC lb/hr from Ink= [conventional ink use in lb per hour from ink use estimator x 0.1 x 0.05] + [UV ink use in lb per hour from ink use estimator x 0.02 x 0.05] VOC lb/hr from coating = [(low VOC coating use in lb coating/hr of press x VOC content of low VOC coating in % by weight (lb VOC/lb Coating)) + (High VOC coating use in lb coating/hr x VOC content of High VOC coating in % by weight (lb VOC/lb Coating))] low VOC coating has a VOC content of less than or equal to 0.1%. high VOC coating has a VOC content of greater 0.1% and less than or equal to 2.5% VOC Lb/hr from FS concentrate = ((lb/hr of ink applied)/102 x FS concentrate usage in gal/hr) x (0.1 lbVOC/gal) VOC Lb/hr from FS alcohol replacement = ((lb/hr of ink applied)/286 x FS alcohol replacement usage in gal/hr) x (6.45 lbVOC/gal) FS: fountain solutions	VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. This shall be calculated based on the calculated hourly emissions from the application of ink, application of coating, use of fountain solution concentrate, and fountain solution alcohol replacement. These are the hourly emission rates calculated in the applicable requirements in OS43. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.
	. [N.J.A.C. 7:27-22.16(a)]			

New Jersey Department of Environmental Protection Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	Maximum sustained press speed <=12,000 impressions per hour. The maximum potential press speed shall be 12,000 impressions per hour. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination. The maximum press speed shall be documented. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially Maitain records from Ink mileage estimator of press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.
13	HAPs (Total): Potential emissions of all HAPs are below reporting thresholds established in N.J.A.C 7:27-17. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Total Throughput <= 371.6 lb/hr of ink. Based on documentation of construction and Ink Mileage Estimator Ink Mileage Estimator USA (hubergroup.com) or an equivalent estimator. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a 1 hour block average. The hourly ink throughput shall be calculated monthly based on monthly calculated ink thoughput and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
15	VOC (Total) <= 2 % by weight. The VOC content of any UV ink applied shall not exceed 2% by weight. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	
16	VOC (Total) <= 10 % by weight. The VOC content of any conventional ink applied shall not exceed 10% by weight. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	
17	Total Throughput <= 167.2 lb/hr of coatings. Based on an application rate for coatings of 0.7 lb per thousand square feet printable area and documentation of construction, which shall include maximum print width, maximum print length, and maximum speed (net impressions per hour). [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a 1 hour block average. The hourly coating throughput shall be calculated monthly based on monthly calculated coating thoughput and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
18	VOC (Total) <= 2.5 % by weight. The VOC content of any high VOC coating applied shall be greater than 0.1% by weight and less than or equal to 2.5% by weight. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	

U1 The entire printing operation

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New Jersey Department of Environmental Protection Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	VOC (Total) <= 0.1 % by weight. The VOC content of any low VOC coating applied shall not exceed 0.1% by weight for low VOC coating. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	
20	Total Throughput <= 3.64 gal/hr of Fountain Solution Concentrate. Based on maximum ink use using the Ink Mileage Estimator Ink Mileage Estimator USA (hubergroup.com) or equivalent, and site-specific usage rates of fountain solution concentrate per unit of ink usage. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a 1 hour block average. The hourly fountain solution concentrate throughput shall be calculated monthly based on monthly calculated foutain solution concentrate throughput and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
21	VOC (Total) <= 0.1 lb/gal. The VOC content of any fountain solution conentrate shall not exceed 0.1 pounds per gallon. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	
22	Total Throughput <= 1.73 gal/hr of Fountain Solution Alcohol Replacement. Based on maximum ink use using the Ink Mileage Estimator Ink Mileage Estimator USA (hubergroup.com) or equivalent, and site-specific usage rates of fountain solution alcohol replacement per unit of ink usage. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a 1 hour block average. The hourly fountain solution alcohol replacement throughput shall be calculated monthly based on monthly calculated fountain solution alcohol replacement throughput and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
23	VOC (Total) <= 6.45 lb/gal. The VOC content of any fountain solution alcohol replacement shall not exceed 6.45 pounds per gallon. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	
24	VOC (Total) <= 1.86 lb/hr. The maximum VOC emission rate from the application of ink shall not exceed 1.86 pounds per hour. This limit is based on maximum ink usage rate, maximum VOC ink content of 10%, and USEPA emission factor 0.05 lb VOC emitted per lb VOC in ink applied. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. The VOC emissions from the application of inks shall be calculated based on the amount of ink applied in a month in pounds, a VOC concentration of 10%, a VOC emission factor of 0.05 lb of VOC emitted to lb of VOC in ink applied, and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
25	VOC (Total) <= 4.18 lb/hr. The maximum VOC emission rate from the application of coating shall not exceed 4.18 pounds per hour. The basis for this allowable VOC emission rate is the E22 press design specifications and operating limitations and an application rate for coatings of 0.7 pounds per 1000 square feet. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. The VOC emissions from the application of aqueous coatings shall be calculated based on the amount of coatings applied in pounds during the month, weighted VOC coating concentration, and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
26	VOC (Total) <= 0.36 lb/hr. The maximum VOC emission rate from the use of fountain solution concentrate shall not exceed 0.36 pounds per hour. This shall be based on maximum hourly potential ink use, and ratio of ink application rate to fountain solution concentrate use rate of 102. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. The VOC emissions from the use of fountain solution concentrate shall be calculated with the following data: fountain solution concentrate usage in gallons, weighted average of VOC content of fountain solution concentrate used in pounds per gallon, and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
27	VOC (Total) <= 11.2 lb/hr. The maximum VOC emission rate from the use of fountain solution alcohol replacement shall not exceed 11.2 pounds per hour. This shall be based on maximum hourly potential ink use, and ratio of ink application rate to fountain solution alcohol replacement use rate of 286. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. The VOC emissions from the use of fountain solution alcohol replacement shall be calculated with the following data: fountain solution alcohol replacement usage rate in gallons, weighted average VOC content of fountain solution alcohol replacement used in pounds per gallon, and monthly run time. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
28	Maximum print width <= 62.74 inches. The maximum print width shall be 62.74 inches. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination. The maximum print width shall be documented. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain records from Ink mileage estimator, press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
29	Maximum print length <= 45.68 inches. The maximum print length shall be 45.68 inches. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination. The maximum print width shall be documented. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain records from Ink mileage estimator, press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.
30	There shall be no more than 7 print stations. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination. The maximum number of print stations shall be documented. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain records from Ink mileage estimator, press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.
31	Only one side shall be printed at a time. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination. The press shall be designed and operated to be able to print up to two sides at a time. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain records from Ink mileage estimator, press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.
32	The maximum ink coverage shall be 320%. The coverage factor shall be the maximum amount of ink applied across all stations as a percentage of the printable area. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination . [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain records from Ink mileage estimator, press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
33	VOC Content per Volume of Coating (Minus Water) > 2.9 lb/gal If any surface coating is applied with a VOC content in excess of 2.9 pounds per gallon, the daily weighted mean of the VOC content of the surface coating formulations as applied to E22 shall not exceed 2.9 pounds per gallon. [N.J.A.C. 7:27-16.7(c)3]	VOC Content per Volume of Coating (Minus Water): Monitored by calculations upon occurrence of event, based on one calendar day. The following shall be monitored: number of different surface coating formulations applied in one day; VOC content per volume of each surface coating formulation (minus water) applied in one day, in pounds per gallon; and volume of each surface coating formulation (minus water) applied in one day, in gallons . [N.J.A.C. 7:27-22.16(o)]	VOC Content per Volume of Coating (Minus Water): Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The following shall be recorded: number of surface coating formulations applied in one day; VOC content per volume of each surface coating formulation (minus water) applied in one day, in pounds per gallon; volume of each surface coating formulation (minus water) applied in one day, in gallons; daily mean VOC Content calculations conducted pursuant to N.J.A.C. 7:27-16.7(c)3. and trade name and SDS information on each surface coating formulation used in the calculations. [N.J.A.C. 7:27-22.16(o)]	
34	VOC content of fountain solution <= 5% by weight or <= 8.5% VOC by weight as applied and the fountain solution refrigerated to < 60 Fahrenheit. [N.J.A.C. 7:27-16.7(s)2]	Monitored by formulation data per change of material. The permittee shall document that each coating is VOC compliant using standard formulation sheets, MSDS forms, or the results of analytical tests. If VOC content is >= 5.0% by weight the fountain solution chiller temperature shall be monitored with a temperature guage continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. The applicant shall maintain records of the VOC content of each formulation as applied. When a fountain solution contains >5% VOC as applied, the chiller temperature shall be recorded daily. The permittee shall maintain the required records for a period of no less than five years. [N.J.A.C. 7:27-16.7(s)3]	None.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
35	HAPs (Total): There shall be no air contaminants emitted at a rate from E22 that exceeds the applicable threshold for reporting emissions set forth in N.J.A.C. 7:27-17.9(a). This shall include the combined emissions from the printing and cleaning operations of E22. [N.J.A.C. 7:27-22.16(a)]	HAPs (Total): Monitored by material balance each month during operation, based on a 12-operating-month rolling average. When any conventional ink, UV ink, coating, fountain solution concentrate, fountain solution alcohol replacement, or cleaning solution that contains any substances listed in N.J.A.C. 7:27-17.9(a) is used by E22, the air contaminant mass emissions of that substance shall be calculated. The methodology used to calculate the air contaminant mass emissions shall replicate the applicable methodology used to determine the VOC emissions for the individual piece of equipment. [N.J.A.C. 7:27-22.16(o)]	HAPs (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The monthly emissions of any substance in N.J.A.C. 7:22-17.9(a) shall be recorded. This shall include the combined emissions from the printing and cleaning operations. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection Facility Specific Requirements

Date: 5/21/2025

Emission Unit: U1 The entire printing operation

Operating Scenario: OS44 Cleaning Operation fo E22, 7C HB64"

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The Permittee shall maintain records for each cleaning solution including each change of diluent or concentration of diluent as applied. [N.J.A.C. 7:27-16.7(n)] & [N.J.A.C. 7:27-22.16(a)]	Other: The method(s) to be used to determine the composition of each cleaning solution may include utilization of standard formulation sheets, material safety data sheets, the results of analytical tests, or other methods approved in advance and provided that the required information can be readily extracted from the documents. [N.J.A.C. 7:27-16.7(o)] &[N.J.A.C. 7:27-22.16(o)].	Other: Document and maintain all records in an operating logbook or readily accessible computer memories. The Permittee shall record the following for each cleaning solution used, a. The trade name and series number of each cleaning solution used. b. The VOC content of each cleaning solution used. c. The volume of each cleaning solution applied; d. The density of VOC in each cleaning solution[N.J.A.C. 7:27-22.16(o)].	None.
2	Any cleaning material used on any lithographic or letterpress printing press shall: i.Have a composite VOC vapor pressure less than 10 mm Hg at 20 degrees Celsius; or ii.Have a VOC content of less than 70 percent by weight. [N.J.A.C. 7:27-16.7(r)2]	Monitored by formulation data per change of material. The permittee shall document that each cleaning solution used is compliant using standard formulation sheets, SDS forms, or the results of analytical tests. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material The permittee shall record the % VOC by weight and/or vapor pressure of each formulation used. The permittee shall maintain the required records for a period of no less than five years. [N.J.A.C. 7:27-16.7(r)5]	None.
3	No greater than a total of 110 gallons per calendar year of cleaning materials that do not meet one of the requirements above in Ref. #2 may be used to clean a lithographic or letterpress printing press [N.J.A.C. 7:27-16.7(r)3]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The amount of cleaning material (that does not comply with Ref. #2 above) used during each calendar month and total year to date shall be recorded and maintained on site for a period no less than five years. [N.J.A.C. 7:27-16.7(r)5]	None.

New Jersey Department of Environmental Protection Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	A cleaning material used to clean a lithographic or letterhead printing operation is not required to meet Ref. #2 above for cleaning electronic components of a press, pre-press cleaning operations (for example, platemaking), post-press cleaning operations (for example, binding), or cleaning performed in parts washers or cold cleaners. [N.J.A.C. 7:27-16.7(r)4]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The amount of cleaning material used to clean electronic components of a press, pre-press cleaning operations, post-press cleaning operations, or cleaning performed in parts washers or cold cleaners used each calendar month and total year to date must be recorded and maintained on site for a period no less than five years. [N.J.A.C. 7:27-16.7(r)5]	None.
5	VOC (Total) <= 3.2 tons/yr Where: VOC tpy cleaning = VOC tpy from Non-Conforming Solvent + VOC tpy from Conforming Solvent VOC tpy from Non- Conforming Solvent = [110 gallons per year of Non- Conforming Solvent x VOC content of Non- Conforming Solvent 7.34(lb/gal)]/2000 lb/ton VOC tpy from Conforming Solvent = [lb Conforming Solvent use per year x VOC content of Conforming Solvent (6.37 lb/gal) x 0.5]/2000 lb/ton Conforming solvent: i.Has a composite VOC vapor pressure less than 10 mm Hg at 20 degrees Celsius; or ii.Has a VOC content of less than 70 percent by weight. Non-Conforming solvent = i.Has a composite VOC vapor pressure greater than 10 mm Hg at 20 degrees Celsius; and	VOC (Total): Monitored by material feed/flow monitoring each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Document and maintain all records in an operating logbook or readily accessible computer memories. The Permittee shall record the following for each cleaning solution used, a. The trade name and series number of each cleaning solution/solvent used. b. The VOC content of each cleaning solution as applied. c. The volume of each cleaning solution/solvent applied in gallons/year as applied d. The density of VOC in each cleaning solution. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Total Throughput <= 1,775 gal/yr (any 12 consecutive month period) for conforming solvent (wipe clean) with a maximum VOC content of 6.37 lb VOC/gal and efficiency of 0.5. Conforming solvent: i.Has a composite VOC vapor pressure less than 10 mm Hg at 20 degrees Celsius; or ii.Has a VOC content of less than 70 percent by weight [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of clean solutions consumed for each month shall be added to the amount consumed for the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
7	Total Throughput <= 110 gal/yr (any 12 consecutive month period) from non-conforming solvent with a maximum VOC Content of 7.34 lb VOC/gal. A non-conforming solvent: i.Has a composite VOC vapor pressure greater than 10 mm Hg at 20 degrees Celsius; and ii.Has a VOC content of greater than 70 percent by weight. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of clean solutions consumed for each month shall be added to the amount consumed for the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
8	HAPs (Total): . All HAPs emitted from the cleaning process are below the reporting thresholds [N.J.A.C. 7:27-22.16(a)]	HAPs (Total): Monitored by material balance each month during operation. Keep records of hours of operation of printing monthly and yearly. [N.J.A.C. 7:27-22.16(o)]	HAPs (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Keep records of hours of operation for printing monthly and yearly. [N.J.A.C. 7:27-22.16(o)]	None.
9	The print stations multipled by the width in inches and multipllied by the sides shall be 439. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction once initially, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	VOC (Total) <= 7.34 lb/gal. The VOC content of any non-conforming cleaning solvent used shall not exceed 7.34 pounds VOC per gallon. A non-conforming solvent: i.Has a composite VOC vapor pressure greater than 10 mm Hg at 20 degrees Celsius; and ii.Has a VOC content of greater than 70 percent by weight. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. Each time a new cleaning solvent is used, its VOC content shall be monitored. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. Each time a new cleaning solvent is used, its VOC content shall be recorded. [N.J.A.C. 7:27-22.16(o)]	
11	VOC (Total) <= 6.37 lb/gal. The VOC content of any conforming cleaning solvent shall not exceed 6.37 pounds VOC per gallon. Conforming solvent: i.Has a composite VOC vapor pressure less than 10 mm Hg at 20 degrees Celsius; or ii.Has a VOC content of less than 70 percent by weight. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	
12	Total Throughput <= 1.83 gal/hr. The sum of non-conforming solvent throughput and and conforming solvent throughput used shall not exceed 1.83 gallons per hour. The maximum hourly throughput is based on specific solvent usage rates and design parameters. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a 1 hour block average. The hourly conforming and non-conforming solvent throughput shall be calculated monthly based on monthly conforming and non-conforming solvent usage and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	VOC (Total) <= 13.4 lb/hr. The maximum VOC emission rate from the application of all cleaning solvents shall not exceed 12.3 pounds per hour. This is based on press designn specifications. specifice solvent usage rates, and weighted VOC solvent content. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. The VOC emissions from the use of cleaning solvents shall be calculated based on the total monthly usage of all cleaning solvent in gallons, the weighted VOC pounds per gallon content of the cleaning solvent, run hours during the month, an efficiency/release factor of 0.5 for conforming solvents, and an efficiency/release factor of 1.0 for non-conforming solvents. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
14	HAPs (Total): There shall be no air contaminants emitted at a rate from E22 that exceeds the applicable threshold for reporting emissions set forth in N.J.A.C. 7:27-17.9(a). This shall include the combined emissions from the printing and cleaning operations of E22. [N.J.A.C. 7:27-22.16(a)]	HAPs (Total): Monitored by material balance each month during operation, based on a 12-operating-month rolling average. When any conventional ink, UV ink, coating, fountain solution concentrate, fountain solution alcohol replacement, or cleaning solution that contains any substances listed in N.J.A.C. 7:27-17.9(a) is used by E22, the air contaminant mass emissions of that substance shall be calculated. The methodology used to calculate the air contaminant mass emissions shall replicate the applicable methodology used to determine the VOC emissions for the individual piece of equipment. [N.J.A.C. 7:27-22.16(o)]	HAPs (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The monthly emissions of any substance in N.J.A.C. 7:22-17.9(a) shall be recorded. This shall include the combined emissions from the printing and cleaning operations. [N.J.A.C. 7:27-22.16(o)]	None.

UNIMAC GRAPHICS (02842) BOP220001

New Jersey Department of Environmental Protection Facility Specific Requirements

Date: 5/21/2025

Emission Unit: U1 The entire printing operation

Operating Scenario: OS45 Printing Operation, E23, 2C Heidelberg Harris, V-30, non heatset double web printing press

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.0769 lb/hr. Maximum hourly VOC emission rate released from designated web printing ink and fountain solution. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by material balance each month during operation. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Records maintained shall include the following for each ink, coating, fountain solution or any other VOC containing materials used in the printers: quantity used in gallons, VOC content of each formulation used in pounds per gallon. [N.J.A.C. 7:27-22.16(o)]	None.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	The Permittee shall maintain records of the VOC content of each surface coating formulation (minus water) as applied, in pounds of VOC per gallon of coating or kilograms of VOC per liter of coating; the percent by weight of any exempt organic substance; and the daily volume of each surface coating formulation applied. [N.J.A.C. 7:27-16.7(m)] & [N.J.A.C. 7:27-22.16(a)]	Other: The method(s) to be used to determine the composition of the surface coating ink, varnish, aqueous coating or fountain solution may include utilization of standard formulation sheets, material safety data sheets, the results of analytical tests, or other methods approved in advance and provided that the required information can be readily extracted from the documents. [N.J.A.C. 7:27-16.7(o)] &[N.J.A.C. 7:27-22.16(o)].	Other: Document and maintain all records in an operating logbook or readily accessible computer memories. The Permittee shall record the following for each surface coating ink, varnish and fountain solution including each change of diluent or concentration of diluent as applied, a. The trade name and series number of each ink, varnish and fountain solution used. b. The volume or weight of each surface coating ink, varnish or fountain solution applied; c. The density of each surface coating ink, varnish or fountain solution; d. The density of the VOC in each surface coating ink, varnish or fountain solution; e. The percent by weight of VOC in each surface coating ink or varnish; f. The percent by weight of any exempt organic substance in each surface coating ink or varnish; h. The percent by volume of water in the fountain solution. [N.J.A.C. 7:27-22.16(o)].	None.
3	VOC Content per Volume of Coating (Minus Water) <= 2.9 lb/gal. The maximum VOC content per volume of aqueous surface coating. [N.J.A.C. 7:27-16.7(c)1]	Other: Monitor the formulation of each surface coating (printing ink) used. The method(s) to be used to determine the composition of the surface coating formulation may include utilization of standard formulation sheets, material safety data sheets, the results of analytical tests, or other methods approved in advance and provided that the required information can be readily extracted from the documents. [N.J.A.C. 7:27-16.7(o)] &[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of the VOC content of each surface coating formulation (minus water) as applied, in pounds of VOC per gallon of coating; the percent by weight of any exempt organic substance; and the daily volume of each surface coating formulation applied. [N.J.A.C. 7:27-16.7(m)] &[N.J.A.C. 7:27-22.16(o)].	None.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	VOC (Total) <= 1 tons/yr for printing operation, Where: VOC Tons per year (tpy) = [(VOC tpy from ink) + (VOC tpy from Fountain solution concentrate)] VOC tpy from Ink= [(Conventional ink use in lb/yr of press x VOC content of Conventional ink in % x 0.05)]/2000(lb/ton) VOC tpy from FS concentrate = [Amount of FS concentrate used in gal/yr x VOC content of FS concentrate in lb/gallon] /2000 (lb/ton). FS: Fountain Solution. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Maintain records of the following: a. the VOC content/density of each Conventional ink, and Fountain Solution Concentrate as applied in lb/gallon. b. the efficiency of each Conventional ink, and Fountain Solution Concentrate as applied, c. the EPA emission factor used in calculations of each Conventional ink, and Fountain Solution Concentrate as applied d. the trade name, SDS sheets of each Conventional ink, and Fountain Solution Concentrate as applied. Records should be readily available to NJDEP and USEPA upon request. [N.J.A.C. 7:27-22.16(o)]	Submit a report: Upon occurrence of event at the request of USEPA and NJDEP. [N.J.A.C. 7:27-22.16(o)]
5	Total Throughput <= 50,000 lb/yr of conventional ink (any 12 consecutive month period). The maximum annual conventional ink limit based on EPA emission factor of 0.05 lb VOC emitted per lb of VOC in ink applied and a maximum ink VOC content of 20 percent. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of conventional press printing ink used each month shall be added to the amount used for the preceding 11 months to get lb/yr. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Maintain records of the following: a. the VOC content/density of each Conventional ink as applied in lb/gallon. b. the efficiency of each Conventional ink as applied, c. the EPA emission factor used in calculations of each Conventional ink as applied d. the trade name, SDS sheets of each Conventional ink as applied. Records should be readily available to NJDEP and USEPA upon request. [N.J.A.C. 7:27-22.16(o)]	None.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	
6	Total Throughput <= 675 gal/yr of fountain solution concentrate (any 12 consecutive month period). The maximum annual consumption of all the designated fountain solution concentrate based on emission factor of 1.0 and a maximum VOC content of 0.1 lb/gal. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of fountain solution concentrate in gal /month applied for each month shall be added to the amount applied for the preceding 11 months to get gal/yr. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.	
7	VOC (Total) <= 0.8 lb/hr Where: Lb VOC lb/hr printing = VOC lb/hr from ink + VOC Lb/hr from Fountain solution concentrate VOC lb/hr from Ink= [conventional ink use in lb per hour from ink use estimator x 0.2 x 0.05] VOC Lb/hr from FS concentrate = ((lb/hr of ink applied)/150x FS concentrate usage in gal/hr) x (0.1 lbVOC/gal) FS: fountain solutions [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. This shall be calculated based on the calculated hourly emissions from the application of ink, and use of fountain solution concentrate. These are the hourly emission rates calculated in the applicable requirements in OS45. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.	
8	Maximum sustained press speed <=25,000 impressions per hour. The maximum potential sustained press speed shall be 25,000 impressions per hour. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination. The maximum press speed shall be documented. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially Maitain records from Ink mileage estimator of press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.	
9	Total Throughput <= 66.4 lb/hr of ink. Based on documentation of construction and Ink Mileage Estimator USA (hubergroup.com) or an equivalent estimator. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a 1 hour block average. The hourly ink throughput shall be calculated monthly based on monthly calculated ink throughput and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]		

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	VOC (Total) <= 20 % by weight. The VOC content of any conventional ink applied shall not exceed 20% by weight. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	
11	Total Throughput <= 0.44 gal/hr of Fountain Solution Concentrate. Based on maximum ink use using the Ink Mileage Estimator USA (hubergroup.com) or equivalent, and site-specific usage rates of fountain solution concentrate per unit of ink usage. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a 1 hour block average. The hourly fountain solution concentrate throughput shall be calculated monthly based on monthly calculated foutain solution concentrate thoughput and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
12	VOC (Total) <= 0.41 lb/gal. The VOC content of any fountain solution conentrate shall not exceed 0.41 pounds per gallon. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	
13	VOC (Total) <= 0.66 lb/hr. The maximum VOC emission rate from the application of ink shall not exceed 0.66 pounds per hour. This limit is based on maximum ink usage rate, maximum VOC ink content of 20%, and USEPA emission factor 0.05 lb VOC emitted per lb VOC in ink applied. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. The VOC emissions from the application of inks shall be calculated based on the amount of ink applied in a month in pounds, a VOC concentration of 10%, a VOC emission factor of 0.05 lb of VOC emitted to lb of VOC in ink applied, and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
14	VOC (Total) <= 0.18 lb/hr. The maximum VOC emission rate from the use of fountain solution concentrate shall not exceed 0.18 pounds per hour. This shall be based on maximum hourly potential ink use, and ratio of ink application rate to fountain solution concentrate use rate of 150. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. The VOC emissions from the use of fountain solution concentrate shall be calculated with the following data: fountain solution concentrate usage in gallons, weighted average of VOC content of fountain solution concentrate used in pounds per gallon, and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	

New Jersey Department of Environmental Protection Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	Maximum print width <= 22.13 inches. The maximum print width shall be 22.13 inches. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination. The maximum print width shall be documented. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain records from Ink mileage estimator, press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.
16	Maximum print length <= 35.25 inches. The maximum print length shall be 35.25 inches. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination. The maximum print width shall be documented. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain records from Ink mileage estimator, press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.
17	There shall be no more than 2 print stations. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination. The maximum number of print stations shall be documented. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain records from Ink mileage estimator, press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.
18	Two sides can be printed simulataneously [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination. The press shall be designed and operated to be able to print up to two sides at a time. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain records from Ink mileage estimator, press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.
19	The maximum ink coverage shall be 50%. The coverage factor shall be the maximum amount of ink applied across all stations as a percentage of the printable area. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination . [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain records from Ink mileage estimator, press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.

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New Jersey Department of Environmental Protection Facility Specific Requirements

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
20	VOC Content per Volume of Coating (Minus Water) > 2.9 lb/gal If any surface coating is applied with a VOC content in excess of 2.9 pounds per gallon, the daily weighted mean of the VOC content of the surface coating formulations as applied to E23 shall not exceed 2.9 pounds per gallon. [N.J.A.C. 7:27-16.7(c)3]	VOC Content per Volume of Coating (Minus Water): Monitored by calculations upon occurrence of event, based on one calendar day. The following shall be monitored: number of different surface coating formulations applied in one day; VOC content per volume of each surface coating formulation (minus water) applied in one day, in pounds per gallon; and volume of each surface coating formulation (minus water) applied in one day, in gallons . [N.J.A.C. 7:27-22.16(o)]	VOC Content per Volume of Coating (Minus Water): Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The following shall be recorded: number of surface coating formulations applied in one day; VOC content per volume of each surface coating formulation (minus water) applied in one day, in pounds per gallon; volume of each surface coating formulation (minus water) applied in one day, in gallons; daily mean VOC Content calculations conducted pursuant to N.J.A.C. 7:27-16.7(c)3. and trade name and SDS information on each surface coating formulation used in the calculations. [N.J.A.C. 7:27-22.16(o)]	
21	VOC content of fountain solution <= 5% by weight or <= 8.5% VOC by weight as applied and the fountain solution refrigerated to < 60 Fahrenheit. [N.J.A.C. 7:27-16.7(s)2]	Monitored by formulation data per change of material. The permittee shall document that each coating is VOC compliant using standard formulation sheets, MSDS forms, or the results of analytical tests. If VOC content is >= 5.0% by weight the fountain solution chiller temperature shall be monitored with a temperature guage continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. The applicant shall maintain records of the VOC content of each formulation as applied. When a fountain solution contains >5% VOC as applied, the chiller temperature shall be recorded daily. The permittee shall maintain the required records for a period of no less than five years. [N.J.A.C. 7:27-16.7(s)3]	None.
22	HAPs (Total): There shall be no air contaminants emitted at a rate from E23 that exceeds the applicable threshold for reporting emissions set forth in N.J.A.C. 7:27-17.9(a). This shall include the combined emissions from the printing and cleaning operations of E23. [N.J.A.C. 7:27-22.16(a)]	HAPs (Total): Monitored by material balance each month during operation, based on a 12-operating-month rolling average. When any conventional ink, UV ink, fountain solution concentrate, or cleaning solution that contains any substances listed in N.J.A.C. 7:27-17.9(a) is used by E23, the air contaminant mass emissions of that substance shall be calculated. The methodology used to calculate the air contaminant mass emissions shall replicate the applicable methodology used to determine the VOC emissions for the individual piece of equipment. [N.J.A.C. 7:27-22.16(o)]	HAPs (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The monthly emissions of any substance in N.J.A.C. 7:22-17.9(a) shall be recorded. This shall include the combined emissions from the printing and cleaning operations. [N.J.A.C. 7:27-22.16(o)]	None.

U1 The entire printing operation

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New Jersey Department of Environmental Protection Facility Specific Requirements

Date: 5/21/2025

Emission Unit: U1 The entire printing operation

Operating Scenario: OS46 Cleaning Operation, E23, 2C Heidelberg Harris, V-30, non heatset double web printing press

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The Permittee shall maintain records for each cleaning solution including each change of diluent or concentration of diluent as applied. [N.J.A.C. 7:27-16.7(n)] & [N.J.A.C. 7:27-22.16(a)]	Other: The method(s) to be used to determine the composition of each cleaning solution may include utilization of standard formulation sheets, material safety data sheets, the results of analytical tests, or other methods approved in advance and provided that the required information can be readily extracted from the documents. [N.J.A.C. 7:27-16.7(o)] &[N.J.A.C. 7:27-22.16(o)].	Other: Document and maintain all records in an operating logbook or readily accessible computer memories. The Permittee shall record the following for each cleaning solution used, a. The trade name and series number of each cleaning solution used. b. The VOC content of each cleaning solution used. c. The volume of each cleaning solution applied; d. The density of VOC in each cleaning solution[N.J.A.C. 7:27-22.16(o)].	None.
2	Any cleaning material used on any lithographic or letterpress printing press shall: i.Have a composite VOC vapor pressure less than 10 mm Hg at 20 degrees Celsius; or ii.Have a VOC content of less than 70 percent by weight. [N.J.A.C. 7:27-16.7(r)2]	Monitored by formulation data per change of material. The permittee shall document that each cleaning solution used is compliant using standard formulation sheets, SDS forms, or the results of analytical tests. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material The permittee shall record the % VOC by weight and/or vapor pressure of each formulation used. The permittee shall maintain the required records for a period of no less than five years. [N.J.A.C. 7:27-16.7(r)5]	None.
3	No greater than a total of 110 gallons per calendar year of cleaning materials that do not meet one of the requirements above in Ref. #2 may be used to clean a lithographic or letterpress printing press [N.J.A.C. 7:27-16.7(r)3]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The amount of cleaning material (that does not comply with Ref. #2 above) used during each calendar month and total year to date shall be recorded and maintained on site for a period no less than five years. [N.J.A.C. 7:27-16.7(r)5]	None.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	A cleaning material used to clean a lithographic or letterhead printing operation is not required to meet Ref. #2 above for cleaning electronic components of a press, pre-press cleaning operations (for example, platemaking), post-press cleaning operations (for example, binding), or cleaning performed in parts washers or cold cleaners. [N.J.A.C. 7:27-16.7(r)4]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The amount of cleaning material used to clean electronic components of a press, pre-press cleaning operations, post-press cleaning operations, or cleaning performed in parts washers or cold cleaners used each calendar month and total year to date must be recorded and maintained on site for a period no less than five years. [N.J.A.C. 7:27-16.7(r)5]	None.
5	VOC (Total) <= 3.9 tons/yr Where: VOC tpy cleaning = VOC tpy from Non-Conforming Solvent + VOC tpy from Conforming Solvent VOC tpy from Non- Conforming Solvent = [110 gallons per year of Non- Conforming Solvent x VOC content of Non- Conforming Solvent 7.34(lb/gal)]/2000 lb/ton VOC tpy from Conforming Solvent = [gallons of Conforming Solvent use per year x VOC content of Conforming Solvent (6.37 lb/gal) x 0.5]/2000 lb/ton Conforming solvent: i.Has a composite VOC vapor pressure less than 10 mm Hg at 20 degrees Celsius; or ii.Has a VOC content of less than 70 percent by weight. Non-Conforming solvent = i.Has a composite VOC vapor pressure greater than 10 mm Hg at 20 degrees Celsius; and ii.Has a VOC content greater than 70 percent by weight [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by material feed/flow monitoring each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Document and maintain all records in an operating logbook or readily accessible computer memories. The Permittee shall record the following for each cleaning solution used, a. The trade name and series number of each cleaning solution/solvent used. b. The VOC content of each cleaning solution as applied. c. The volume of each cleaning solution/solvent applied in gallons/year as applied d. The density of VOC in each cleaning solution. [N.J.A.C. 7:27-22.16(o)]	None.

Ref.#	Applicable Requirement	Manitaring Paguinament	Decording Dequipment	Submittel/Action Dequipment
		Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Total Throughput <= 2,214 gal/yr (any 12 consecutive month period) for conforming solvent (wipe clean) with a maximum VOC content of 6.37 lb VOC/gal and efficiency of 0.5. Conforming solvent: i.Has a composite VOC vapor pressure less than 10 mm Hg at 20 degrees Celsius; or ii.Has a VOC content of less than 70 percent by weight [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of cleaning solutions consumed for each month shall be added to the amount consumed for the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
7	Total Throughput <= 110 gal/yr (any 12 consecutive month period) from non-conforming solvent with a maximum VOC Content of 7.34 lb VOC/gal. A non-conforming solvent: i.Has a composite VOC vapor pressure greater than 10 mm Hg at 20 degrees Celsius; and ii.Has a VOC content of greater than 70 percent by weight. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of cleaning solutions consumed for each month shall be added to the amount consumed for the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
8	The print stations multiplied by the width in inches and multiplied by the sides shall be 88. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction once initially, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	
9	VOC (Total) <= 7.34 lb/gal. The VOC content of any non-conforming cleaning solvent used shall not exceed 7.34 pounds VOC per gallon. A non-conforming solvent: i.Has a composite VOC vapor pressure greater than 10 mm Hg at 20 degrees Celsius; and ii.Has a VOC content of greater than 70 percent by weight. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. Each time a new cleaning solvent is used, its VOC content shall be monitored. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. Each time a new cleaning solvent is used, its VOC content shall be recorded. [N.J.A.C. 7:27-22.16(o)]	

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	VOC (Total) <= 6.37 lb/gal. The VOC content of any conforming cleaning solvent shall not exceed 6.37 pounds VOC per gallon. Conforming solvent: i.Has a composite VOC vapor pressure less than 10 mm Hg at 20 degrees Celsius; or ii.Has a VOC content of less than 70 percent by weight. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	
11	Total Throughput <= 0.37 gal/hr. The sum of non-conforming solvent throughput and and conforming solvent throughput used shall not exceed 0.37 gallons per hour. The maximum hourly throughput is based on specific solvent usage rates and design parameters. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a 1 hour block average. The hourly conforming and non-conforming solvent throughput shall be calculated monthly based on monthly conforming and non-conforming solvent usage and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
12	VOC (Total) <= 2.5 lb/hr. The maximum VOC emission rate from the application of all cleaning solvents shall not exceed 2.5 pounds per hour. This is based on press designn specifications. specifice solvent usage rates, and weighted VOC solvent content. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. The VOC emissions from the use of cleaning solvents shall be calculated based on the total monthly usage of all cleaning solvent in gallons, the weighted VOC pounds per gallon content of the cleaning solvent, run hours during the month, an efficiency/release factor of 0.5 for conforming solvents, and an efficiency/release factor of 1.0 for non-conforming solvents. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
13	The RTO, CD2, shall maintain operation when the heatset web press is in operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	HAPs (Total): There shall be no air contaminants emitted at a rate from E23 that exceeds the applicable threshold for reporting emissions set forth in N.J.A.C. 7:27-17.9(a). This shall include the combined emissions from the printing and cleaning operations of E23. [N.J.A.C. 7:27-22.16(a)]	HAPs (Total): Monitored by material balance each month during operation, based on a 12-operating-month rolling average. When any conventional ink, UV ink, fountain solution concentrate, or cleaning solution that contains any substances listed in N.J.A.C. 7:27-17.9(a) is used by E23, the air contaminant mass emissions of that substance shall be calculated. The methodology used to calculate the air contaminant mass emissions shall replicate the applicable methodology used to determine the VOC emissions for the individual piece of equipment. [N.J.A.C. 7:27-22.16(o)]	HAPs (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The monthly emissions of any substance in N.J.A.C. 7:22-17.9(a) shall be recorded. This shall include the combined emissions from the printing and cleaning operations. [N.J.A.C. 7:27-22.16(o)]	None.

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Emission Unit: U1 The entire printing operation

Operating Scenario: OS47 Printing operation for E24, XL106-10CP, including the use of printing inks, fountain solutons and UV/aqueous coatings

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
	The Permittee shall maintain records of the VOC content of each surface coating formulation (minus water) as applied, in pounds of VOC per gallon of coating or kilograms of VOC per liter of coating; the percent by weight of any exempt organic substance; and the daily volume of each surface coating formulation applied. [N.J.A.C. 7:27-16.7(m)] & [N.J.A.C. 7:27-22.16(a)]	Other: The method(s) to be used to determine the composition of the surface coating ink, varnish, aqueous coating or fountain solution may include utilization of standard formulation sheets, material safety data sheets, the results of analytical tests, or other methods approved in advance and provided that the required information can be readily extracted from the documents. [N.J.A.C. 7:27-16.7(o)] &[N.J.A.C. 7:27-22.16(o)].	Other: Document and maintain all records in an operating logbook or readily accessible computer memories. The Permittee shall record the following for each surface coating ink, varnish and fountain solution including each change of diluent or concentration of diluent as applied, a. The trade name and series number of each ink, varnish and fountain solution used. b. The volume or weight of each surface coating ink, varnish or fountain solution applied; c. The density of each surface coating ink, varnish or fountain solution; d. The density of the VOC in each surface coating ink, varnish or fountain solution; e. The percent by weight of VOC in each surface coating ink or varnish; f. The percent by weight of any exempt organic substance in each surface coating ink, or varnish. g. The percent by weight of any water in each surface coating ink or varnish; h. The percent by volume of water in the fountain solution. [N.J.A.C. 7:27-22.16(o)].	None.

Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	VOC Content per Volume of Coating (Minus Water) <= 2.9 lb/gal. The maximum VOC content per volume of aqueous surface coating. [N.J.A.C. 7:27-16.7(c)1]	Other: Monitor the formulation of each surface coating (printing ink) used. The method(s) to be used to determine the composition of the surface coating formulation may include utilization of standard formulation sheets, material safety data sheets, the results of analytical tests, or other methods approved in advance and provided that the required information can be readily extracted from the documents. [N.J.A.C. 7:27-16.7(o)] &[N.J.A.C. 7:27-22.16(o)].	Other: Maintain records of the VOC content of each surface coating formulation (minus water) as applied, in pounds of VOC per gallon of coating; the percent by weight of any exempt organic substance; and the daily volume of each surface coating formulation applied. [N.J.A.C. 7:27-16.7(m)] & [N.J.A.C. 7:27-22.16(o)].	None.

	racinty Specific Requirements			
Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	VOC (Total) <= 1.5 tons/yr for printing operation, Where: VOC Tons per year (tpy) = [(VOC tpy from ink) + (VOC tpy from coating) + (VOC tpy from Fountain solution) + (VOC tpy from Alcohol Replacement)] VOC tpy from Ink= [(Conventional ink use in lb/yr of press x VOC content of Conventional ink in % x 0.05) + (UV ink use in lb/yr of press x VOC content of UV ink in % x 0.05)]/2000(lb/ton) VOC tpy from coating = [(low VOC coating use in lb coating/yr of press x VOC content of low VOC coating in % by weight (lb VOC/lb Coating)) + (High VOC coating use in lb coating/yr x VOC content of High VOC coating in % by weight (lb VOC/lb Coating))]/2000 (lb/ton). low VOC coating has a VOC content of less than or equal to 0.1% by weight. high VOC coating has a VOC content of greater than 0.1% and less than or equal to 2.5% by weight. VOC tpy from FS concentrate = [Amount of FS concentrate used in gal/yr x VOC content of FS concentrate in lb/gallon]/2000 (lb/ton). VOC tpy from FS alcohol replacement = [Amount of FS alcohol replacement in lb/gallon]/2000 (lb/ton). FS: Fountain Solution. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Maintain records of the following: a. the VOC content/density of each Conventional ink, UV ink, each Coating, and Fountain Solution Concentrate and Alchohol replacement as applied in lb/gallon. b. the EPA emission factor used in calculations of each Conventional ink, UV ink, each Coating, Fountain Solution and Alchohol replacement as applied c. the trade name, SDS sheets of each Conventional ink, UV ink, each Coating, and Fountain Solution Concentrate and Alchohol replacement as applied. Records should be readily available to NJDEP and USEPA upon request. [N.J.A.C. 7:27-22.16(o)]	Submit a report: Upon occurrence of event at the request of USEPA and NJDEP. [N.J.A.C. 7:27-22.16(o)]

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	Total Throughput <= 3,600 lb/yr of conventional ink (any 12 consecutive month period). The maximum annual conventional ink limit based on EPA emission factor of 0.05 lb VOC emitted per lb of VOC in ink applied and a maximum ink VOC content of 10 percent. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of conventional press printing ink used each month shall be added to the amount used for the preceding 11 months to get lb/yr. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Maintain records of the following: a. the VOC content/density of each Conventional ink as applied in lb/gallon. b. the efficiency of each Conventional ink as applied, c. the EPA emission factor used in calculations of each Conventional ink as applied d. the trade name, SDS sheets of each Conventional ink as applied. Records should be readily available to NJDEP and USEPA upon request. [N.J.A.C. 7:27-22.16(o)]	None.
5	Total Throughput <= 72,000 lb/yr UV ink (any 12 consecutive month period). The maximum annual UV printing ink limit based on EPA emission factor of .05 lb VOC emitted per lb of VOC in ink applied, and a maximum ink VOC content of 2.0%. . [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of UV press printing ink used each month shall be added to the amount used for the preceding 11 months to get lb/yr. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Maintain records of the following: a. the VOC content/density of each UV ink as applied in lb/gallon. b. the efficiency of each UV ink as applied, c. the EPA emission factor used in calculations of each UV ink as applied d. the trade name, SDS sheets of each UV ink as applied. Records should be readily available to NJDEP and USEPA upon request. [N.J.A.C. 7:27-22.16(o)]	None.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Total Throughput <= 85,500 lb/yr of low VOC coating (any 12 consecutive month period). Maximum annual usage of low VOC coating with an emission factor of 1.0 and VOC coating content equal to or less than 0.1% by weight. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of coating used each month shall be added to the amount used for the preceding 11 months to get lb/yr. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Records shall be maintained of maximum VOC content of low VOC coating minus water in lb/gal. [N.J.A.C. 7:27-22.16(o)]	None.
7	Total Throughput <= 19,380 lb/yr of High VOC coating (any 12 consecutive month period). Maximum annual usage of high VOC coating with an emission factor of 1.0 and VOC coating content greater than 0.1% by weight and less than or equal to 2.5% by weight. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of coating used each month shall be added to the amount used for the preceding 11 months to get lb/yr. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Records shall be maintained of maximum VOC content of high VOC coating minus water in lb/gal. [N.J.A.C. 7:27-22.16(o)]	None.
8	Total Throughput <= 352 gal/yr (any 12 consecutive month period). The maximum annual consumption of all the designated fountain solutions alcohol replacement based on emission factor of 1.0 and a maximum VOC content of 6.45 lb/gal. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of fountain solution alcohol replacement applied for each month shall be added to the amount applied for the preceding 11 months to get gal/yr. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
9	Total Throughput <= 704 gal/yr of fountain solution concentrate (any 12 consecutive month period). The maximum annual consumption of all the designated fountain solution concentrate based on emission factor of 1.0 and a maximum VOC content of 0.1 lb/gal. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of fountain solution concentrate in gal /month applied for each month shall be added to the amount applied for the preceding 11 months to get gal/yr. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection Facility Specific Requirements

Date: 5/21/2025

	Facility Specific Requirements				
Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement	
10	VOC (Total) <= 12.6 lb/hr Where: Lb VOC lb/hr printing = VOC lb/hr from ink + VOC lb/hr from coating + VOC lb/hr from Fountain solution concentrate + VOC lb/hr from Alcohol Replacement VOC lb/hr from Ink= [conventional ink use in lb per hour from ink use estimator x 0.1 x 0.05] + [UV ink use in lb per hour from ink use estimator x 0.02 x 0.05] VOC lb/hr from coating = [(low VOC coating use in lb coating/hr of press x VOC content of low VOC coating in % by weight (lb VOC/lb Coating)) + (High VOC coating use in lb coating/hr x VOC content of High VOC coating in % by weight (lb VOC/lb Coating))]	VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. This shall be calculated based on the calculated hourly emissions from the application of ink, application of coating, use of fountain solution concentrate, and fountain solution alcohol replacement. These are the hourly emission rates calculated in the applicable requirements in OS47. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.	
	low VOC coating has a VOC content of less than or equal to 0.1%. high VOC coating has a VOC content of greater 0.1% and less than or equal to 2.5% VOC Lb/hr from FS concentrate = ((lb/hr of ink applied)/102 x FS concentrate usage in gal/hr) x (0.1 lbVOC/gal)				
	VOC Lb/hr from FS alcohol replacement = ((lb/hr of ink applied)/286 x FS alcohol replacement usage in gal/hr) x (6.45 lbVOC/gal)				
	FS: fountain solutions				
	. [N.J.A.C. 7:27-22.16(a)]				

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	Maximum sustained press speed <=15,000 impressions per hour. The maximum potential press speed shall be 15,000 impressions per hour. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination. The maximum press speed shall be documented. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially Maitain records from Ink mileage estimator of press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.
12	VOC content of fountain solution <= 5% by weight or <= 8.5% VOC by weight as applied and the fountain solution refrigerated to < 60 Fahrenheit. [N.J.A.C. 7:27-16.7(s)2]	Monitored by formulation data per change of material. The permittee shall document that each coating is VOC compliant using standard formulation sheets, MSDS forms, or the results of analytical tests. If VOC content is >= 5.0% by weight the fountain solution chiller temperature shall be monitored with a temperature guage continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. The applicant shall maintain records of the VOC content of each formulation as applied. When a fountain solution contains >5% VOC as applied, the chiller temperature shall be recorded daily. The permittee shall maintain the required records for a period of no less than five years. [N.J.A.C. 7:27-16.7(s)3]	None.
13	HAPs (Total): Potential emissions of all HAPs are below reporting thresholds established in N.J.A.C 7:27-17. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Total Throughput <= 367.9 lb/hr of ink. Based on documentation of construction and Ink Mileage Estimator Ink Mileage Estimator USA (hubergroup.com) or an equivalent estimator. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a 1 hour block average. The hourly ink throughput shall be calculated monthly based on monthly calculated ink thoughput and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
15	VOC (Total) <= 2 % by weight. The VOC content of any UV ink applied shall not exceed 2% by weight. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	
16	VOC (Total) <= 10 % by weight. The VOC content of any conventional ink applied shall not exceed 10% by weight. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	Total Throughput <= 82.7 lb/hr of coatings. Based on an application rate for coatings of 0.7 lb per thousand square feet printable area and documentation of construction, which shall include maximum print width, maximum print length, and maximum speed (net impressions per hour). [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a 1 hour block average. The hourly coating throughput shall be calculated monthly based on monthly calculated coating thoughput and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
18	VOC (Total) <= 2.5 % by weight. The VOC content of any high VOC coating applied shall be greater than 0.1% and less than or equal to 2.5% by weight. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	
19	VOC (Total) <= 0.1 % by weight. The VOC content of any low VOC coating applied shall not exceed 0.1% by weight for low VOC coating. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	
20	Total Throughput <= 3.61 gal/hr of Fountain Solution Concentrate. Based on maximum ink use using the Ink Mileage Estimator Ink Mileage Estimator USA (hubergroup.com) or equivalent, and site-specific usage rates of fountain solution concentrate per unit of ink usage. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a 1 hour block average. The hourly fountain solution concentrate throughput shall be calculated monthly based on monthly calculated foutain solution concentrate throughput and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
21	VOC (Total) <= 0.1 lb/gal. The VOC content of any fountain solution conentrate shall not exceed 0.1 pounds per gallon. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	
22	Total Throughput <= 1.29 gal/hr of Fountain Solution Alcohol Replacement. Based on maximum ink use using the Ink Mileage Estimator Ink Mileage Estimator USA (hubergroup.com) or equivalent, and site-specific usage rates of fountain solution alcohol replacement per unit of ink usage. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a 1 hour block average. The hourly fountain solution alcohol replacement throughput shall be calculated monthly based on monthly calculated fountain solution alcohol replacement throughput and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
23	VOC (Total) <= 6.45 lb/gal. The VOC content of any fountain solution alcohol replacement shall not exceed 6.45 pounds per gallon. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	
24	VOC (Total) <= 1.84 lb/hr. The maximum VOC emission rate from the application of ink shall not exceed 1.84 pounds per hour. This limit is based on maximum ink usage rate, maximum VOC ink content of 10%, and USEPA emission factor 0.05 lb VOC emitted per lb VOC in ink applied. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. The VOC emissions from the application of inks shall be calculated based on the amount of ink applied in a month in pounds, a VOC concentration of 10%, a VOC emission factor of 0.05 lb of VOC emitted to lb of VOC in ink applied, and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
25	VOC (Total) <= 2.07 lb/hr. The maximum VOC emission rate from the application of coating shall not exceed 2.07 pounds per hour. The basis for this allowable VOC emission rate is the E24 press design specifications and operating limitations and an application rate for coatings of 0.7 pounds per 1000 square feet. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. The VOC emissions from the application of aqueous coatings shall be calculated based on the amount of coatings applied in pounds during the month, weighted VOC coating concentration, and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
26	VOC (Total) <= 0.36 lb/hr. The maximum VOC emission rate from the use of fountain solution concentrate shall not exceed 0.36 pounds per hour. This shall be based on maximum hourly potential ink use, and ratio of ink application rate to fountain solution concentrate use rate of 102. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. The VOC emissions from the use of fountain solution concentrate shall be calculated with the following data: fountain solution concentrate usage in gallons, weighted average of VOC content of fountain solution concentrate used in pounds per gallon, and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
27	VOC (Total) <= 8.3 lb/hr. The maximum VOC emission rate from the use of fountain solution alcohol replacement shall not exceed 8.3 pounds per hour. This shall be based on maximum hourly potential ink use, and ratio of ink application rate to fountain solution alcohol replacement use rate of 286. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. The VOC emissions from the use of fountain solution alcohol replacement shall be calculated with the following data: fountain solution alcohol replacement usage rate in gallons, weighted average VOC content of fountain solution alcohol replacement used in pounds per gallon, and monthly run time. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
28	Maximum print width <= 40.34 inches. The maximum print width shall be 40.34 inches. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination. The maximum print width shall be documented. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain records from Ink mileage estimator, press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.
29	Maximum print length <= 28.13 inches. The maximum print length shall be 28.13 inches. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination. The maximum print width shall be documented. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain records from Ink mileage estimator, press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.
30	There shall be no more than 10 print stations. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination. The maximum number of print stations shall be documented. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain records from Ink mileage estimator, press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
31	Only one side shall be printed at a time. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination. The press shall be designed and operated to be able to print up to two sides at a time. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain records from Ink mileage estimator, press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.
32	The maximum ink coverage shall be 320%. The coverage factor shall be the maximum amount of ink applied across all stations as a percentage of the printable area. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction upon request of the Department, based on an instantaneous determination . [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Maintain records from Ink mileage estimator, press speed, design specifications, length, width, number of stations and sides, to be readily available to NJDEP and USEPA on request. [N.J.A.C. 7:27-22.16(o)]	None.
33	VOC Content per Volume of Coating (Minus Water) > 2.9 lb/gal If any surface coating is applied with a VOC content in excess of 2.9 pounds per gallon, the daily weighted mean of the VOC content of the surface coating formulations as applied to E24 shall not exceed 2.9 pounds per gallon. [N.J.A.C. 7:27-16.7(c)3]	VOC Content per Volume of Coating (Minus Water): Monitored by calculations upon occurrence of event, based on one calendar day. The following shall be monitored: number of different surface coating formulations applied in one day; VOC content per volume of each surface coating formulation (minus water) applied in one day, in pounds per gallon; and volume of each surface coating formulation (minus water) applied in one day, in gallons . [N.J.A.C. 7:27-22.16(o)]	VOC Content per Volume of Coating (Minus Water): Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The following shall be recorded: number of surface coating formulations applied in one day; VOC content per volume of each surface coating formulation (minus water) applied in one day, in pounds per gallon; volume of each surface coating formulation (minus water) applied in one day, in gallons; daily mean VOC Content calculations conducted pursuant to N.J.A.C. 7:27-16.7(c)3. and trade name and SDS information on each surface coating formulation used in the calculations. [N.J.A.C. 7:27-22.16(o)]	

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
34	VOC content of fountain solution <= 5% by weight or <= 8.5% VOC by weight as applied and the fountain solution refrigerated to < 60 Fahrenheit. [N.J.A.C. 7:27-16.7(s)2]	Monitored by formulation data per change of material. The permittee shall document that each coating is VOC compliant using standard formulation sheets, MSDS forms, or the results of analytical tests. If VOC content is >= 5.0% by weight the fountain solution chiller temperature shall be monitored with a temperature guage continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. The applicant shall maintain records of the VOC content of each formulation as applied. When a fountain solution contains >5% VOC as applied, the chiller temperature shall be recorded daily. The permittee shall maintain the required records for a period of no less than five years. [N.J.A.C. 7:27-16.7(s)3]	None.
35	HAPs (Total): There shall be no air contaminants emitted at a rate from E24 that exceeds the applicable threshold for reporting emissions set forth in N.J.A.C. 7:27-17.9(a). This shall include the combined emissions from the printing and cleaning operations of E24. [N.J.A.C. 7:27-22.16(a)]	HAPs (Total): Monitored by material balance each month during operation, based on a 12-operating-month rolling average. When any conventional ink, UV ink, coating, fountain solution concentrate, fountain solution alcohol replacement, or cleaning solution that contains any substances listed in N.J.A.C. 7:27-17.9(a) is used by E24, the air contaminant mass emissions of that substance shall be calculated. The methodology used to calculate the air contaminant mass emissions shall replicate the applicable methodology used to determine the VOC emissions for the individual piece of equipment. [N.J.A.C. 7:27-22.16(o)]	HAPs (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The monthly emissions of any substance in N.J.A.C. 7:22-17.9(a) shall be recorded. This shall include the combined emissions from the printing and cleaning operations. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection

Date: 5/21/2025

Facility Specific Requirements

Emission Unit: U1 The entire printing operation

Operating Scenario: OS48 The cleaning operation for E24, XL106-10CP, between jobs and during

makeready

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The Permittee shall maintain records for each cleaning solution including each change of diluent or concentration of diluent as applied. [N.J.A.C. 7:27-16.7(n)] & [N.J.A.C. 7:27-22.16(a)]	Other: The method(s) to be used to determine the composition of each cleaning solution may include utilization of standard formulation sheets, material safety data sheets, the results of analytical tests, or other methods approved in advance and provided that the required information can be readily extracted from the documents. [N.J.A.C. 7:27-16.7(o)] &[N.J.A.C. 7:27-22.16(o)].	Other: Document and maintain all records in an operating logbook or readily accessible computer memories. The Permittee shall record the following for each cleaning solution used, a. The trade name and series number of each cleaning solution used. b. The VOC content of each cleaning solution used. c. The volume of each cleaning solution applied; d. The density of VOC in each cleaning solution[N.J.A.C. 7:27-22.16(o)].	None.
2	Any cleaning material used on any lithographic or letterpress printing press shall: i.Have a composite VOC vapor pressure less than 10 mm Hg at 20 degrees Celsius; or ii.Have a VOC content of less than 70 percent by weight. [N.J.A.C. 7:27-16.7(r)2]	Monitored by formulation data per change of material. The permittee shall document that each cleaning solution used is compliant using standard formulation sheets, SDS forms, or the results of analytical tests. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material The permittee shall record the % VOC by weight and/or vapor pressure of each formulation used. The permittee shall maintain the required records for a period of no less than five years. [N.J.A.C. 7:27-16.7(r)5]	None.
3	No greater than a total of 110 gallons per calendar year of cleaning materials that do not meet one of the requirements above in Ref. #2 may be used to clean a lithographic or letterpress printing press [N.J.A.C. 7:27-16.7(r)3]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The amount of cleaning material (that does not comply with Ref. #2 above) used during each calendar month and total year to date shall be recorded and maintained on site for a period no less than five years. [N.J.A.C. 7:27-16.7(r)5]	None.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	A cleaning material used to clean a lithographic or letterhead printing operation is not required to meet Ref. #2 above for cleaning electronic components of a press, pre-press cleaning operations (for example, platemaking), post-press cleaning operations (for example, binding), or cleaning performed in parts washers or cold cleaners. [N.J.A.C. 7:27-16.7(r)4]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The amount of cleaning material used to clean electronic components of a press, pre-press cleaning operations, post-press cleaning operations, or cleaning performed in parts washers or cold cleaners used each calendar month and total year to date must be recorded and maintained on site for a period no less than five years. [N.J.A.C. 7:27-16.7(r)5]	None.
5	VOC (Total) <= 3.4 tons/yr Where: VOC tpy cleaning = VOC tpy from Non-Conforming Solvent + VOC tpy from Conforming Solvent VOC tpy from Non- Conforming Solvent = [110 gallons per year of Non- Conforming Solvent x VOC content of Non- Conforming Solvent 7.34(lb/gal)]/2000 lb/ton VOC tpy from Conforming Solvent = [lb Conforming Solvent use per year x VOC content of Conforming Solvent (6.37 lb/gal) x 0.5]/2000 lb/ton Conforming solvent: i.Has a composite VOC vapor pressure less than 10 mm Hg at 20 degrees Celsius; or ii.Has a VOC content of less than 70 percent by weight. Non-Conforming solvent = i.Has a composite VOC vapor pressure greater than 10 mm Hg at 20 degrees	VOC (Total): Monitored by material feed/flow monitoring each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Document and maintain all records in an operating logbook or readily accessible computer memories. The Permittee shall record the following for each cleaning solution used, a. The trade name and series number of each cleaning solution/solvent used. b. The VOC content of each cleaning solution as applied. c. The volume of each cleaning solution/solvent applied in gallons/year as applied d. The density of VOC in each cleaning solution. [N.J.A.C. 7:27-22.16(o)]	None.
	Celsius; and ii.Has a VOC content greater than 70 percent by weight [N.J.A.C. 7:27-22.16(a)]			

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Total Throughput <= 1,900 gal/yr (any 12 consecutive month period) for conforming solvent (wipe clean) with a maximum VOC content of 6.37 lb VOC/gal and efficiency of 0.5. Conforming solvent: i.Has a composite VOC vapor pressure less than 10 mm Hg at 20 degrees Celsius; or ii.Has a VOC content of less than 70 percent by weight [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of clean solutions consumed for each month shall be added to the amount consumed for the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
7	Total Throughput <= 110 gal/yr (any 12 consecutive month period) from non-conforming solvent with a maximum VOC Content of 7.34 lb VOC/gal. A non-conforming solvent: i.Has a composite VOC vapor pressure greater than 10 mm Hg at 20 degrees Celsius; and ii.Has a VOC content of greater than 70 percent by weight. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). The amount of clean solutions consumed for each month shall be added to the amount consumed for the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
8	HAPs (Total): . All HAPs emitted from the cleaning process are below the reporting thresholds [N.J.A.C. 7:27-22.16(a)]	HAPs (Total): Monitored by material balance each month during operation. Keep records of hours of operation of printing monthly and yearly. [N.J.A.C. 7:27-22.16(o)]	HAPs (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Keep records of hours of operation for printing monthly and yearly. [N.J.A.C. 7:27-22.16(o)]	None.
9	The print stations multipled by the width in inches and multipllied by the sides shall be 400. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction once initially, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	VOC (Total) <= 7.34 lb/gal. The VOC content of any non-conforming cleaning solvent used shall not exceed 7.34 pounds VOC per gallon. A non-conforming solvent: i.Has a composite VOC vapor pressure greater than 10 mm Hg at 20 degrees Celsius; and ii.Has a VOC content of greater than 70 percent by weight. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. Each time a new cleaning solvent is used, its VOC content shall be monitored. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. Each time a new cleaning solvent is used, its VOC content shall be recorded. [N.J.A.C. 7:27-22.16(o)]	
11	VOC (Total) <= 6.37 lb/gal. The VOC content of any conforming cleaning solvent shall not exceed 6.37 pounds VOC per gallon. Conforming solvent: i.Has a composite VOC vapor pressure less than 10 mm Hg at 20 degrees Celsius; or ii.Has a VOC content of less than 70 percent by weight. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by formulation data per change of material, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system per change of material. [N.J.A.C. 7:27-22.16(o)]	
12	Total Throughput <= 1.68 gal/hr. The sum of non-conforming solvent throughput and and conforming solvent throughput used shall not exceed 1.68 gallons per hour. The maximum hourly throughput is based on specific solvent usage rates and design parameters. [N.J.A.C. 7:27-22.16(a)]	Total Throughput: Monitored by calculations each month during operation, based on a 1 hour block average. The hourly conforming and non-conforming solvent throughput shall be calculated monthly based on monthly conforming and non-conforming solvent usage and monthly run hours. [N.J.A.C. 7:27-22.16(o)]	Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	VOC (Total) <= 12.3 lb/hr. The maximum VOC emission rate from the application of all cleaning solvents shall not exceed 12.3 pounds per hour. This is based on press designn specifications. specifice solvent usage rates, and weighted VOC solvent content. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations each month during operation, based on a 1 hour block average. The VOC emissions from the use of cleaning solvents shall be calculated based on the total monthly usage of all cleaning solvent in gallons, the weighted VOC pounds per gallon content of the cleaning solvent, run hours during the month, an efficiency/release factor of 0.5 for conforming solvents, and an efficiency/release factor of 1.0 for non-conforming solvents. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	
14	HAPs (Total): There shall be no air contaminants emitted at a rate from E24 that exceeds the applicable threshold for reporting emissions set forth in N.J.A.C. 7:27-17.9(a). This shall include the combined emissions from the printing and cleaning operations of E24. [N.J.A.C. 7:27-22.16(a)]	HAPs (Total): Monitored by material balance each month during operation, based on a 12-operating-month rolling average. When any conventional ink, UV ink, coating, fountain solution concentrate, fountain solution alcohol replacement, or cleaning solution that contains any substances listed in N.J.A.C. 7:27-17.9(a) is used by E24, the air contaminant mass emissions of that substance shall be calculated. The methodology used to calculate the air contaminant mass emissions shall replicate the applicable methodology used to determine the VOC emissions for the individual piece of equipment. [N.J.A.C. 7:27-22.16(o)]	HAPs (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The monthly emissions of any substance in N.J.A.C. 7:22-17.9(a) shall be recorded. This shall include the combined emissions from the printing and cleaning operations. [N.J.A.C. 7:27-22.16(o)]	None.

Date: 5/21/2025

New Jersey Department of Environmental Protection Facility Profile (General)

Facility Name (AIMS): Unimac Graphics Facility ID (AIMS): 02842

Street 350 MICHELE PL

Address: CARLSTADT, NJ 07072

Mailing 350 MICHELE PL

Address: CARLSTADT, NJ 07072

County: Bergen

Location The facility is located in an industrial section **Description:** of the city of Carlstadt, near the intersection of

Route 120 and Washington Avenue, very close to the Meadowland Sports Complex.

State Plane Coordinates:

X-Coordinate: 4,518,960

Y-Coordinate: 575,654

Units: UTM Zone 18N - Meters

Datum: NAD83

Source Org.: DEP-GIS

Source Type: Hard Copy Map

Industry:

Primary SIC: 2752

Secondary SIC:

NAICS: 323111

New Jersey Department of Environmental Protection Facility Profile (General)

Contact Type: Air Permit Information Contact

Organization: Unimac Graphics Org. Type: Private

Name: Greg Matonti **NJ EIN:** 00223586199

Title: President

 Phone: (201) 372-1000 x
 Mailing
 350 Michele Place

 Fax: (412) 996-0338 x
 Address: Carlstadt, NJ 07072

Other: (201) 306-9183 x

Type: Mobile

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Contact Type: BOP - Operating Permits

Organization: Unimac Graphics Org. Type: Private

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Title: President

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Contact Type: Consultant

Organization: CMI Org. Type: Private

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Title: Senior Project Manager

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04 (215) (02 2295

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UNIMAC GRAPHICS (02842) BOP220001

New Jersey Department of Environmental Protection Facility Profile (General)

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Title: President

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 350 Michele Place

 Fax: (412) 996-0338 x
 Address: Carlstadt, NJ 07072

Other: (201) 306-9183 x

Type: Mobile

Email: gmatonti@unimacgraphics.com

Contact Type: Owner (Current Primary)

Organization: Unimac Graphics Org. Type: Private

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Title: President

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 Fax: (412) 996-0338 x
 Address: Carlstadt, NJ 07072

Other: (201) 306-9183 x

Type: Mobile

Email: gmatonti@unimacgraphics.com

Contact Type: Responsible Official

Organization: Unimac Graphics Org. Type: Private

Name: Greg Matonti **NJ EIN:** 00223586199

Title: President

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 350 Michele Place

 Fax: (412) 996-0338 x
 Address:
 Carlstadt, NJ 07072

Other: (201) 306-9183 x

Type: Mobile

Email: gmatonti@unimacgraphics.com

New Jersey Department of Environmental Protection Facility Profile (General)

Contact Type: Title V Compliance Certification Contact

Organization: Unimac Graphics Org. Type: Private

Name: Greg Matonti NJ EIN: 00223586199

Title: President

Phone: (201) 372-1000 x **Mailing** 350 Michele Place **Fax:** (412) 996-0338 x **Address:** Carlstadt, NJ 07072

Other: (201) 306-9183 x

Type: Mobile

Email: gmatonti@unimacgraphics.com

Date: 05/21/2025

New Jersey Department of Environmental Protection Non-Source Fugitive Emissions

FG	Description of	Location	reasonable Estimate of Elmissions (tpy)								
NJID	Activity Causing Emission	Description	VOC (Total)	NOx	CO	SO	TSP (Total)	PM-10	Pb	HAPS (Total)	Other (Total)
FG1	Prepress cleaning operation on films and glass tables	Prepress Department	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
Total			0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.00230000	0.000

Date: 5/21/2025

New Jersey Department of Environmental Protection Insignificant Source Emissions

IS Source/Group Equipment Type Location		Estimate of Emissions (tpy)										
NJID	Description		Description	VOC (Total)	NOx	СО	so	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS1	HVAC Systems, Space Heaters and Hotwater Heaters (Natural Gas Only, Each < 1 MMBtu/hr Heat Input)	Fuel Combustion Equipment (Other)	Throughout the plant	0.011	0.175	0.147	0.001	0.013	0.013	0.000	0.00000000	0.000
		Total		0.011	0.175	0.147	0.001	0.013	0.013	0.000	0.00000000	0.000

New Jersey Department of Environmental Protection Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand- Fathered	Last Mod. (Since 1968)	Equip. Set ID
E11	FULLWEB	6 color 22.75" x 38" KBA heatset full web offset printing press	Printing Press (Graphic Arts)		12/15/1999	No	12/15/1999	
E12	8C KBA	8C 40"x56", KBA perfecting sheetfed press with an aqueous coater	Printing Press (Graphic Arts)		8/15/2005	No	8/15/2005	
E20	KBA41-3	6C KBA 29"x41" sheetfed press with an UV/aqueous coater and UV/IR device	Printing Press (Graphic Arts)		7/31/2014	No	12/31/2021	
E21	8C HB 40	8 color, 28"x40", Heidelberg sheetfed press with an aqueous coater and a UV coater	Printing Press (Graphic Arts)		9/1/2016	No		
E22	7C HB 64	7 color, 64"x48", Heidelberg sheetfed press with a duel UV/aqueoue coater	Printing Press (Graphic Arts)		10/30/2019	No		
E23	V30	A 2C, 22.75" x 36". Heidelberg Harris nonheatset double web printing press	Printing Press (Graphic Arts)		11/30/2020			
E24	XL106-10CPer	XL106-10-Color Perfector (29.53" x 41.73" sheetfed press equipped with 2 aqueous/UV coaters)	Printing Press (Graphic Arts)		4/1/2023	No		

02842 UNIMAC GRAPHICS BOP220001 E11 (Printing Press (Graphic Arts)) Print Date: 5/8/2025

Make:	38
Manufacturer:	KBA
Model:	6C
Type of Press:	Heatset Web
Does this Press use Fountain Solution?	Yes No
Maximum Consumption of Fountain Solution (gals/year):	3,250.00
Density of VOC in the Fountain Solution (lbs/gal):	0.45
Maximum % Volume of VOC as Applied in the Fountain	
Solution:	5.00
Maximum % Volume of Water in the Fountain Solution:	95.00
Maximum Temperature of the Fountain Solution (°F):	75.00
Solution used for Cleaning the Press:	Craft Wash and MRC F
Maximum Cleaning Solution used in any one hour (gal/hr):	0.07
Maximum Cleaning Solution used in any one year (gal/yr):	440.00
Density of VOC in the Cleaning Solution (lbs/gal):	6.50
Have you Attached the MSDS for the Fountain and Cleaning Solutions?	✓ YesMo
Comments:	

02842 UNIMAC GRAPHICS BOP220001 E12 (Printing Press (Graphic Arts)) Print Date: 5/8/2025

Make:	56
Manufacturer:	KBA
Model:	8C
Type of Press:	Sheetfed
Does this Press use Fountain Solution?	Yes No
Maximum Consumption of Fountain Solution (gals/year):	825.00
Density of VOC in the Fountain Solution (lbs/gal):	7.50
Maximum % Volume of VOC as Applied in the Fountain Solution:	5.00
Maximum % Volume of	5.00
Water in the Fountain Solution:	95.00
Maximum Temperature of the Fountain Solution (°F):	75.00
Solution used for Cleaning the Press:	Craft Wash, MRC F and UV Wash
Maximum Cleaning Solution used in any one hour (gal/hr):	0.33
Maximum Cleaning Solution used in any one year (gal/yr):	2,200.00
Density of VOC in the Cleaning Solution (lbs/gal):	6.50
Have you Attached the MSDS for the Fountain and Cleaning Solutions?	Yes No
Comments:	

02842 UNIMAC GRAPHICS BOP220001 E20 (Printing Press (Graphic Arts)) Print Date: 5/8/2025

Make:	
Manufacturer:	KBA
Model:	6C
Type of Press:	Sheetfed
Does this Press use Fountain Solution?	Yes No
Maximum Consumption of Fountain Solution (gals/year):	660.00
Density of VOC in the Fountain Solution (lbs/gal):	6.45
Maximum % Volume of VOC as Applied in the Fountain Solution:	3.00
Maximum % Volume of Water in the Fountain Solution:	97.00
Maximum Temperature of the Fountain Solution (°F):	75.00
Solution used for Cleaning the Press:	Varies; includes blanket wash, metering roller cleaner, and general cleaners.
Maximum Cleaning Solution used in any one hour (gal/hr):	0.14
Maximum Cleaning Solution used in any one year (gal/yr):	900.00
Density of VOC in the Cleaning Solution (lbs/gal):	6.83
Have you Attached the MSDS for the Fountain and	Yes
Cleaning Solutions?	No

02842 UNIMAC GRAPHICS BOP220001 E21 (Printing Press (Graphic Arts)) Print Date: 5/8/2025

Make:	40
Manufacturer:	Heidelberg
Model:	8C
Type of Press:	Sheetfed
Does this Press use Fountain Solution?	Yes No
Maximum Consumption of Fountain Solution (gals/year):	880.00
Density of VOC in the Fountain Solution (lbs/gal):	7.50
Maximum % Volume of VOC as Applied in the Fountain	
Solution:	5.00
Maximum % Volume of Water in the Fountain	
Solution:	95.00
Maximum Temperature of	
the Fountain Solution (ºF):	75.00
Solution used for Cleaning the Press:	Saphira Wash, Saphira MRC and UV Wash
Maximum Cleaning Solution used in any one hour (gal/hr):	0.16
Maximum Cleaning Solution used in any one year (gal/yr):	1,045.00
Density of VOC in the Cleaning Solution (lbs/gal):	7.13
Have you Attached the MSDS for the Fountain and Cleaning Solutions?	Yes No
Comments:	

02842 UNIMAC GRAPHICS BOP220001 E22 (Printing Press (Graphic Arts)) Print Date: 5/8/2025

Make:	64
Manufacturer:	Heidelberg
Model:	
Type of Press:	Sheetfed
Does this Press use Fountain Solution?	Yes No
Maximum Consumption of Fountain Solution (gals/year):	2,200.00
Density of VOC in the Fountain Solution (lbs/gal):	7.50
Maximum % Volume of VOC as Applied in the Fountain Solution:	0.00
	3.00
Maximum % Volume of Water in the Fountain	
Solution:	97.00
Maximum Temperature of	
the Fountain Solution (°F):	70.00
Solution used for Cleaning the Press:	Heidelberg 572 Combo Wash and Lototec MRC
110 1 1000.	
Maximum Cleaning Solution used in any one hour (gal/hr):	0.19
Maximum Cleaning Solution used in any one year (gal/yr):	1,265.00
Density of VOC in the Cleaning Solution (lbs/gal):	5.44
Have you Attached the MSDS for the Fountain and Cleaning Solutions?	YesNo
Comments:	

02842 UNIMAC GRAPHICS BOP220001 E23 (Printing Press (Graphic Arts)) Print Date: 5/8/2025

Make:	Harris
Manufacturer:	Heidelberg
Model:	V30
Type of Press: Does this Press use Fountain Solution?	Nonheatset web press Yes No
Maximum Consumption of Fountain Solution (gals/year):	330.00
Density of VOC in the Fountain Solution (lbs/gal):	0.41
Maximum % Volume of VOC as Applied in the Fountain Solution:	5.00
Maximum % Volume of Water in the Fountain Solution:	95.00
Maximum Temperature of the Fountain Solution (°F):	75.00
Solution used for Cleaning the Press:	PW 3707A Wash and Saphira MRC Cleaner
Maximum Cleaning Solution used in any one hour (gal/hr):	0.11
Maximum Cleaning Solution used in any one year (gal/yr):	330.00
Density of VOC in the Cleaning Solution (lbs/gal):	6.37
Have you Attached the MSDS for the Fountain and Cleaning Solutions?	Yes No
Comments:	

02842 UNIMAC GRAPHICS BOP220001 E24 (Printing Press (Graphic Arts)) Print Date: 5/8/2025

Make:	XL106-5+LYY-P(9)-5+LX3UV						
Manufacturer:	Heidelberg						
Model:	10C						
Type of Press:	Sheetfed						
Does this Press use Fountain Solution?	Yes No						
Maximum Consumption of Fountain Solution (gals/year):	594.00						
Density of VOC in the Fountain Solution (lbs/gal):	7.50						
Maximum % Volume of VOC as Applied in the Fountain Solution:	5.00						
Maximum % Volume of Water in the Fountain Solution:	95.00						
Maximum Temperature of the Fountain Solution (°F):	75.00						
Solution used for Cleaning the Press:	Craft Wash, MRC F and UV Wash						
Maximum Cleaning Solution used in any one hour (gal/hr):	0.09						
Maximum Cleaning Solution used in any one year (gal/yr):	625.00						
Density of VOC in the Cleaning Solution (lbs/gal):	6.50						
Have you Attached the MSDS for the Fountain and Cleaning Solutions?	Yes No						
Comments:							

New Jersey Department of Environmental Protection Control Device Inventory

Date: 5/21/2025

CD NJID	Facility's Designation	Description	CD Type	Install Date	Grand- Fathered	Last Mod. (Since 1968)	CD Set ID	
CD2	RTO #1	TANN 8000 scfm RTO	Oxidizer (Thermal)	12/28/2015	No			

02842 UNIMAC GRAPHICS BOP220001 CD2 (Oxidizer (Thermal)) Print Date: 5/8/2025

Make:	
Manufacturer:	TANN
Model:	TR895
Minimum Chamber Temperature (°F)	1500
Minimum Residence Time (sec):	0.8
Fuel Type:	Natural gas
Description:	
Maximum Rated Gross Heat Input (MMBtu/hr):	1.5
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	Operating Temperature Chart Recorder and THC monitoring
Have you attached data from recent performance testing?	Yes No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	Yes No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	
Comments:	

Date: 5/21/2025

New Jersey Department of Environmental Protection Emission Points Inventory

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam.	Height (ft.)	Dist. to Prop.	Exhaust Temp. (deg. F)			Exha	aust Vol. (a	Discharge Direction		
14311	Designation			(in.)	(11.)	Line (ft)	Avg.	Min.	Max.	Avg.	Min.	Max.	Direction	
PT1	Stack #1	A 6' by 8' loading dock door near the pressroom	Rectangle	94	8	100	75.0	65.0	90.0	25.0	25.0	25.0	Horizontal	
PT2	Stack #2	An exhaust stack from the new Tann 8000 SCFM RTO	Round	24	32	300	700.0	600.0	850.0	8,000.0	2,500.0	8,000.0	Up	

UNIMAC GRAPHICS (02842)
BOP220001
Date: 5/21/2025

New Jersey Department of Environmental Protection Emission Unit/Batch Process Inventory

U 1 UNIMAC The entire printing operation

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min. Max.	VOC Range	Flow (acfm) Min. Max.			emp. leg F) Max.	
OS20	6C Fulweb-1	Printing/Drying Operatiion, 6 Color KBA Heatset Web Press	Normal - Steady State	E11	CD2 (P)	PT2	4-05-004-01	2,200.0 6,600.0	G	2,500.0	8,000.0	1,450.0	1,700.0	
OS22	6C FullWeb-2	Cleaning Operation, 6 Color KBA Heatset Web Press	Normal - Steady State	E11		PT1	4-05-004-01	2,200.0 6,600.0	G	25.0	25.0	65.0	90.0	
OS23	8C KBA-1	Printing Operation, 8 Color KBA 56" Sheetfed Press	Normal - Steady State	E12		PT1	4-05-004-01	2,200.0 6,600.0	G	25.0	25.0	65.0	90.0	
OS24	8C KBA-2	Cleaning Operation, 8 Color KBA 56" Sheetfed Press	Normal - Steady State	E12		PT1	4-05-004-01	2,200.0 6,600.0	G	25.0	25.0	65.0	90.0	
OS39	KBA41-3p	The printing operation for E20, KBA41-3, including the use of printing inks, fountain solutons and UV/aqueous coatings		E20		PT1	4-05-004-01	2,000.0 6,600.0		25.0	25.0	65.0	90.0	
OS40	KBA41-3c	The cleaning operation for E20, KBA41-3, between jobs and during makeready	Normal - Steady State	E20		PT1	4-05-004-01	2,000.0 6,600.0		25.0	25.0	65.0	90.0	
OS41	8C HB40"-1	Printing Operation, E21, 8 Color Heidelberg Sheetfed Press	•	E21		PT1	4-05-004-01	2,200.0 6,600.0	G	25.0	25.0	65.0	90.0	
OS42	8C HB40"-2	Cleaning Operation, E21, 8 Color Heidelberg Sheetfed Press	Normal - Steady State	E21		PT1	4-05-004-01	2,200.0 6,600.0	G	25.0	25.0	65.0	90.0	
OS43	7C HB64"-1	Printing Operation for E22, 7C HB64"	Normal - Steady State	E22		PT1	4-05-004-01	2,200.0 6,600.0	G	25.0	25.0	65.0	90.0	
OS44	7C HB64"-2	Cleaning Operation fo E22, 7C HB64"	Normal - Steady State	E22		PT1	4-05-004-01	2,200.0 6,600.0	G	25.0	25.0	65.0	90.0	

Date: 5/21/2025

New Jersey Department of Environmental Protection Emission Unit/Batch Process Inventory

U 1 UNIMAC The entire printing operation

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	_		Flow VOC (acfm) Range Min. Max.			Temp. (deg F) Min. Max	
OS45	V30-1	Printing Operation, E23, 2C Heidelberg Harris, V-30, non heatset double web printing press	Normal - Steady State		Device(s)	PT1	4-05-004-03	Min. Ma			25.0	25.0	65.0	90.0
OS46	V30-2	Cleaning Operation, E23, 2C Heidelberg Harris, V-30, non heatset double web printing press	Normal - Steady State	E23		PT1	4-05-004-03	2,200.0 6,1	120.0	G	25.0	25.0	65.0	90.0
OS47	XL106-10CP-p	Printing operation for E24, XL106-10CP, including the use of printing inks, fountain solutons and UV/aqueous coatings	Normal - Steady State	E24		PT1	4-05-004-01	2,200.0 6,6	500.0	G	25.0	25.0	65.0	90.0
OS48	XL106-10CP-c	The cleaning operation for E24, XL106-10CP, between jobs and during makeready	Normal - Steady State	E24		PT1	4-05-004-01	2,200.0 6,6	500.0	G	25.0	25.0	65.0	90.0