NAP Industries Group, LLC. (09625)

Date: 1/27/2025

New Jersey Department of Environmental Protection
Reason for Application

Permit Being Modified

Permit Class: **Number:** 0

Description of Modifications: Air permit application for the installation and operation of equipment at a plastics packaging manufacturing and commercial printing facility. The details of the application are provided below.

Four (4) printing presses and an Ink Storage Room ducted to a Regenerative Thermal Oxidizer (RTO1) as CD1:
E-1 Press #1 with OS1 Printiing Operations and O2 Cleaning Operations
E-2 Press #2 with OS3 Printiing Operations and O4 Cleaning Operations
E-3 Press #3 with OS5 Printiing Operations and O6 Cleaning Operations
E-4 Press #4 with OS7 Printiing Operations and O8 Cleaning Operations
E-5 Ink Storage Room, OS9 Operations

E-6 Solventless Lamination, OS10 Operations
E-7 Solvent Storage Tank, OS11 Operations

The facility is requesting the permit VOC limit to be capped at 19 Tons/Year based on 95% destruction efficiency of the RTO. Actual desctruction efficiency is anticipated to be greater than 98%.

New Jersey Department of Environmental Protection
Facility Profile (General)

Facility Name (AIMS): NAP Industries Group, LLC. **Facility ID (AIMS):** 09625

Street Address: 80 AVE K
NEWARK, NJ 07105

Mailing Address: 80 AVE K
NEWARK, NJ 07105

State Plane Coordinates:

X-Coordinate:	589,545
Y-Coordinate:	686,649
Units:	Feet
Datum:	NAD83
Source Org.:	DEP-GIS
Source Type:	Approx. Addr. Match

County: Essex

Location Description:

Industry:

Primary SIC:	
Secondary SIC:	
NAICS:	326111

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Air Permit Information Contact

Organization: NAP Industries Group, LLC.
Org. Type: Corporation
Name: Chaim Sholam Sternhill
NJ EIN: 00882258788
Title: Plant Manager
Phone: (718) 625-4948 x
Fax: ( ) - x
Other: (917) 202-2946 x
Type: Mobile
Email: shulem@napind.com
Mailing Address: 80 Avenue K
Newark, NJ 07105

Contact Type: Consultant

Organization: Total Environmental & Safety, LLC.
Org. Type: Corporation
Name: William Bromirski
NJ EIN:
Title: Environmental Compliance Manager
Phone: (973) 459-2279 x
Fax: ( ) - x
Other: ( ) - x
Type:
Email: bbromirski@totalenvironmental.com
Mailing Address: 2630 Johnson Fork Road
Salem, WV 26426

Contact Type: Fees/Billing Contact

Organization: NAP Industries Group, LLC.
Org. Type: Corporation
Name: Chaim Sholam Sternhill
NJ EIN: 00882258788
Title: Plant Manager
Phone: (718) 625-4948 x
Fax: ( ) - x
Other: (917) 202-2946 x
Type: Mobile
Email: shulem@napind.com
Mailing Address: 80 Avenue K
Newark, NJ 07105

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: General Contact

Organization: NAP Industries Group, LLC.
Name: Chaim Sholam Sternhill
Title: Plant Manager
Phone: (718) 625-4948 x
Fax: ( ) - x
Other: (917) 202-2946 x
Type: Mobile
Email: shulem@napind.com

Org. Type: Corporation
NJ EIN: 00882258788

Mailing Address: 80 Avenue K
Newark, NJ 07105

Contact Type: On-Site Manager

Organization: NAP Industries Group, LLC.
Name: Chaim Sholam Sternhill
Title: Plant Manager
Phone: (718) 625-4948 x
Fax: ( ) - x
Other: (917) 202-2946 x
Type: Mobile
Email: shulem@napind.com

Org. Type: Corporation
NJ EIN: 00882258788

Mailing Address: 80 Avenue K
Newark, NJ 07105

Contact Type: Responsible Official

Organization: NAP Industries Group, LLC.
Name: Chaim Sholam Sternhill
Title: Plant Manager
Phone: (718) 625-4948 x
Fax: ( ) - x
Other: (917) 202-2946 x
Type: Mobile
Email: shulem@napind.com

Org. Type: Corporation
NJ EIN: 00882258788

Mailing Address: 80 Avenue K
Newark, NJ 07105

NAP Industries Group, LLC. (09625) Date: 1/27/2025

New Jersey Department of Environmental Protection
Facility Profile (Permitting)

1. Is this facility classified as a small business by the USEPA?	No
2. Is this facility subject to N.J.A.C. 7:27-22?	No
3. Are you voluntarily subjecting this facility to the requirements of Subchapter 22?	No
4. Has a copy of this application been sent to the USEPA?	No
5. If not, has the EPA waived the requirement?	No
6. Are you claiming any portion of this application to be confidential?	No
7. Is the facility an existing major facility?	No
8. Have you submitted a netting analysis?	No
9. Are emissions of any pollutant above the SOTA threshold?	No
10. Have you submitted a SOTA analysis?	No
11. If you answered "Yes" to Question 9 and "No" to Question 10, explain why a SOTA analysis was not required	
12. Have you provided, or are you planning to provide air contaminant modeling?	No

NAP Industries Group, LLC. (09625) Date: 1/27/2025

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
E1	Press #1	Printing Press #1	Printing Press (Graphic Arts)	250001	5/1/2025	No		
E2	Press #2	Printing Press #2	Printing Press (Graphic Arts)	250001	5/1/2025	No		
E3	Press #3	Printing Press #3	Printing Press (Graphic Arts)	250001	5/1/2025	No		
E4	Press #4	Printing Press #4	Printing Press (Graphic Arts)	250001	5/1/2025	No		
E5	Ink Room	Ink Room	Other Equipment	250001	5/1/2025	No		
E6	Lam #1	Laminator #1	Surface Coating Equipment (Non-Fabric Material)	250001	5/1/2025	No		
E7	Tank1	Solvent Storage Tank	Storage Vessel	250001	5/1/2025	No		

NAP Industries Group, LLC. (09625) Date: 1/27/2025

New Jersey Department of Environmental Protection
Control Device Inventory

CD NJID	Facility's Designation	Description	CD Type	Install Date	Grand-Fathered	Last Mod. (Since 1968)	CD Set ID
CD1	RTO1	Regenerative Thermal Oxidizer	Oxidizer (Thermal)	5/1/2025	No		

NAP Industries Group, LLC. (09625)

Date: 1/27/2025

New Jersey Department of Environmental Protection
Emission Points Inventory

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT1	RTOexhaust	RTO Exhaust	Round	52	40	50	1,550.0	1,500.0	1,600.0	35,000.0	20,000.0	50,000.0	Up	
PT2	Lam1Exhaust	Laminator 1 Exhaust	Round	20	30	130	200.0	200.0	200.0	4,000.0	3,000.0	5,000.0	Up	
PT3	Tank Exhaust	Tank Stack	Door	64	48	65	70.0	65.0	75.0	50.0	50.0	50.0	Horizontal	

NAP Industries Group, LLC. (09625)

Date: 1/27/2025

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

U 1 Printing Printing Operations

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Press #1	Press #1 Printing	Normal - Steady State	E1	CD1 (P)	PT1	4-05-003-01	0.0	5,200.0		10,150.0	10,150.0	500.0	800.0
OS2	Press #1	Press #1 Cleaning	Normal - Steady State	E1	CD1 (P)	PT1		0.0	5,200.0		10,150.0	10,150.0	500.0	800.0
OS3	Press #2	Press #2 Printing	Normal - Steady State	E2	CD1 (P)	PT1	4-05-003-01	0.0	5,200.0		6,150.0	6,150.0	500.0	800.0
OS4	Press #2	Press #2 Cleaning	Normal - Steady State	E2	CD1 (P)	PT1		0.0	5,200.0		6,150.0	6,150.0	500.0	800.0
OS5	Press #3	Press #3 Printing	Normal - Steady State	E3	CD1 (P)	PT1	4-05-003-01	0.0	5,200.0		8,500.0	8,500.0	500.0	800.0
OS6	Press #3	Press #3 Cleaning	Normal - Steady State	E3	CD1 (P)	PT1		0.0	5,200.0		8,500.0	8,500.0	500.0	800.0
OS7	Press #4	Press #4 Printing	Normal - Steady State	E4	CD1 (P)	PT1	4-05-003-01	0.0	5,200.0		8,500.0	8,500.0	500.0	800.0
OS8	Press #4	Press #4 Cleaning	Normal - Steady State	E4	CD1 (P)	PT1		0.0	5,200.0		8,500.0	8,500.0	500.0	800.0
OS9	Ink Room	Ink Room	Normal - Steady State	E5	CD1 (P)	PT1	4-05-006-01	0.0	2,600.0	A	2,000.0	2,000.0	70.0	70.0
OS10	Lam1	Solventless Laminator	Normal - Steady State	E6		PT2	A23-99-000-000	0.0	5,200.0		3,000.0	5,000.0	200.0	200.0
OS11	Tank1	Solvent Storage Tank	Normal - Steady State	E7		PT3	4-07-008-10	0.0	8,760.0		50.0	50.0	65.0	75.0

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U1 Printing**

Operating Scenario: **OS0 Summary**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
CO		2.99000000	2.99000000	2.99000000	tons/yr	No
NOx (Total)		3.56000000	3.56000000	3.56000000	tons/yr	No
Pb		0.00001800	0.00001800	0.00001800	tons/yr	No
PM-10 (Total)		0.27000000	0.27000000	0.27000000	tons/yr	No
SO2		0.02000000	0.02000000	0.02000000	tons/yr	No
TSP		0.27000000	0.27000000	0.27000000	tons/yr	No
VOC (Total)		380.00000000	19.00000000	19.00000000	tons/yr	No

Subject Item: **U1 Printing**

Operating Scenario: **OS1**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
PM-10 (Total)		D	D	D	lb/hr	No
TSP		D	D	D	lb/hr	No
VOC (Total)		85.00000000	4.25000000	4.25000000	lb/hr	No

Subject Item: **U1 Printing**

Operating Scenario: **OS2**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
PM-10 (Total)		D	D	D	lb/hr	No
TSP		D	D	D	lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U1 Printing**

Operating Scenario: **OS2**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
VOC (Total)		80.00000000	4.00000000	4.00000000	lb/hr	No

Subject Item: **U1 Printing**

Operating Scenario: **OS3**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
PM-10 (Total)		D	D	D	lb/hr	No
TSP		D	D	D	lb/hr	No
VOC (Total)		85.00000000	4.25000000	4.25000000	lb/hr	No

Subject Item: **U1 Printing**

Operating Scenario: **OS4**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
PM-10 (Total)		D	D	D	lb/hr	No
TSP		D	D	D	lb/hr	No
VOC (Total)		80.00000000	4.00000000	4.00000000	lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U1 Printing**

Operating Scenario: **OS5**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
PM-10 (Total)		D	D	D	lb/hr	No
TSP		D	D	D	lb/hr	No
VOC (Total)		85.00000000	4.25000000	4.25000000	lb/hr	No

Subject Item: **U1 Printing**

Operating Scenario: **OS6**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
PM-10 (Total)		D	D	D	lb/hr	No
TSP		D	D	D	lb/hr	No
VOC (Total)		8.00000000	4.00000000	4.00000000	lb/hr	No

Subject Item: **U1 Printing**

Operating Scenario: **OS7**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
PM-10 (Total)		D	D	D	lb/hr	No
TSP		D	D	D	lb/hr	No
VOC (Total)		85.00000000	4.25000000	4.25000000	lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U1 Printing**

Operating Scenario: **OS8**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
PM-10 (Total)		D	D	D	lb/hr	No
TSP		D	D	D	lb/hr	No
VOC (Total)		80.00000000	4.00000000	4.00000000	lb/hr	No

Subject Item: **U1 Printing**

Operating Scenario: **OS9**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
PM-10 (Total)		D	D	D	lb/hr	No
TSP		D	D	D	lb/hr	No
VOC (Total)		0.05300000	0.00100000	0.00100000	lb/hr	No

Subject Item: **U1 Printing**

Operating Scenario: **OS10**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
PM-10 (Total)		D	D	D	lb/hr	No
TSP		D	D	D	lb/hr	No

New Jersey Department of Environmental Protection
Potential to Emit

Subject Item: **U1 Printing**

Operating Scenario: **OS11**

Step:

Air Contaminant Category (HAPS)	Fugitive Emissions	Emissions Before Controls	Emissions After Controls	Total Emissions	Units	Alt. Em. Limit
PM-10 (Total)		D	D	D	lb/hr	No
TSP		D	D	D	lb/hr	No
VOC (Total)		2.29000000	2.29000000	2.29000000	lb/hr	No

000000 E1 (Printing Press (Graphic Arts))
Print Date: 1/27/2025

Make:	Soma
Manufacturer:	Soma
Model:	OPTIMA2 850-1450 8 & 2 EG/WG
Type of Press:	Flexographic
Does this Press use Fountain Solution?	○ Yes ● No
Maximum Consumption of Fountain Solution (gals/year):	
Density of VOC in the Fountain Solution (lbs/gal):	
Maximum % Volume of VOC as Applied in the Fountain Solution:	
Maximum % Volume of Water in the Fountain Solution:	
Maximum Temperature of the Fountain Solution (ºF):	
Solution used for Cleaning the Press:	Solvent, No HAPs
Maximum Cleaning Solution used in any one hour (gal/hr):	10.00
Maximum Cleaning Solution used in any one year (gal/yr):	15,000.00
Density of VOC in the Cleaning Solution (lbs/gal):	7.00
Have you Attached the MSDS for the Fountain and Cleaning Solutions?	○ Yes ● No
Comments:	

000000 E2 (Printing Press (Graphic Arts))
Print Date: 1/27/2025

Make:	Soma
Manufacturer:	Soma
Model:	OPTIMA 2 1450-8-EG
Type of Press:	Flexographic
Does this Press use Fountain Solution?	○ Yes ● No
Maximum Consumption of Fountain Solution (gals/year):	
Density of VOC in the Fountain Solution (lbs/gal):	
Maximum % Volume of VOC as Applied in the Fountain Solution:	
Maximum % Volume of Water in the Fountain Solution:	
Maximum Temperature of the Fountain Solution (ºF):	
Solution used for Cleaning the Press:	Solvent, No HAPs
Maximum Cleaning Solution used in any one hour (gal/hr):	10.00
Maximum Cleaning Solution used in any one year (gal/yr):	15,000.00
Density of VOC in the Cleaning Solution (lbs/gal):	7.00
Have you Attached the MSDS for the Fountain and Cleaning Solutions?	○ Yes ● No
Comments:	

000000 E3 (Printing Press (Graphic Arts))
Print Date: 1/27/2025

Make:	Soma
Manufacturer:	Soma
Model:	Premia 8-Color
Type of Press:	Flexographic
Does this Press use Fountain Solution?	○ Yes ● No
Maximum Consumption of Fountain Solution (gals/year):	
Density of VOC in the Fountain Solution (lbs/gal):	
Maximum % Volume of VOC as Applied in the Fountain Solution:	
Maximum % Volume of Water in the Fountain Solution:	
Maximum Temperature of the Fountain Solution (ºF):	
Solution used for Cleaning the Press:	Solvent, No HAPs
Maximum Cleaning Solution used in any one hour (gal/hr):	10.00
Maximum Cleaning Solution used in any one year (gal/yr):	15,000.00
Density of VOC in the Cleaning Solution (lbs/gal):	7.00
Have you Attached the MSDS for the Fountain and Cleaning Solutions?	○ Yes ● No
Comments:	

000000 E4 (Printing Press (Graphic Arts))
Print Date: 1/27/2025

Make:	Uteco
Manufacturer:	Uteco
Model:	Onyx 2295 8-Color
Type of Press:	Flexographic
Does this Press use Fountain Solution?	○ Yes ● No
Maximum Consumption of Fountain Solution (gals/year):	
Density of VOC in the Fountain Solution (lbs/gal):	
Maximum % Volume of VOC as Applied in the Fountain Solution:	
Maximum % Volume of Water in the Fountain Solution:	
Maximum Temperature of the Fountain Solution (ºF):	
Solution used for Cleaning the Press:	Solvent, No HAPs
Maximum Cleaning Solution used in any one hour (gal/hr):	10.00
Maximum Cleaning Solution used in any one year (gal/yr):	15,000.00
Density of VOC in the Cleaning Solution (lbs/gal):	7.00
Have you Attached the MSDS for the Fountain and Cleaning Solutions?	○ Yes ● No
Comments:	

000000 E5 (Other Equipment)
Print Date: 1/27/2025

Make:	
Manufacturer:	
Model:	
Equipment Type:	Ink Room
Capacity:	
Units:	
Description:	

Have you attached a diagram showing the location and/or the configuration of this equipment?

- ○ Yes
- ● No

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

- ○ Yes
- ● No

Comments:

000000 E6 (Surface Coating Equipment (Non-Fabric Material))
Print Date: 1/27/2025

Make:	Nordmecanica
Manufacturer:	Nordmecanica
Model:	
Method of Application:	Other — Spray Type:
Description:	Solventless Lamination Unit

Have you attached a diagram showing the location and/or the configuration of this equipment?

- ○ Yes
- ● No

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

- ○ Yes
- ● No

Comments: Process and cleaning materials do not contain any VOC

000000 E7 (Storage Vessel)
Print Date: 1/27/2025

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	2,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	No
Shell Color:	
Description (if other):	
Shell Condition:	
Paint Condition:	Good
Shell Construction:	Welded
Is the Shell Insulated?	No
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Rectangular
Shell Height (From Ground to Roof Bottom) (ft):	65.00
Length (ft):	19.00
Width (ft):	40.00
Diameter (ft):	
Other Dimension	
Description:	
Value:	
Units:	
Fill Method:	Top Pipe
Description (if other):	
Maximum Design Fill Rate:	50.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Horizontal fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	65.00
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No

000000 E7 (Storage Vessel)
Print Date: 1/27/2025

Does the storage vessel have a Conservation Vent?	Yes
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

000000 CD1 (Oxidizer (Thermal))
Print Date: 1/27/2025

Make:	
Manufacturer:	Ship & Shore Environmental
Model:	50,000 SCFM
Minimum Chamber Temperature (°F):	1500.0
Minimum Residence Time (sec):	0.50
Fuel Type:	Natural gas
Description:	
Maximum Rated Gross Heat Input (MMBtu/hr):	8.30
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	5
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	CEMS Unit, 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?	○ Yes ● No
Comments:	

09625 NAP Industries Group, LLC. PCP000000 U1 OS1 (Printing Press (Graphic Arts))
Print Date: 1/27/2025

Objects being Printed?	bags
Material of Objects being Printed?	Plastic
Describe:	
VOC Content in Ink as applied (after thinning) (lbs/gal):	7.50
Type of Ink Being Applied:	Flexographic
Maximum Ink used (gal/hr):	10.00
Maximum Ink used (gal/day):	50.00
Maximum Ink used (gal/yr):	12,500.00
Maximum % Weight of VOC in Ink as applied:	75.00
Maximum % Weight of Water in Ink as applied:	
Maximum % Volume of VOC in Ink as applied:	
Maximum % Volume of VOC in Ink as Emitted:	
Maximum % Volume of Water in Ink as applied:	
Have you Attached the MSDS for the Ink?	○ Yes ● No
Comments:	

09625 NAP Industries Group, LLC. PCP000000 U1 OS1 (Oxidizer (Thermal) - CD1)
Print Date: 1/27/2025

Maximum Feed Rate to the Oxidizer (tons/hr):	0.06
Maximum Air Supply Flow Rate (acfm):	10150.0
Minimum Air Supply Flow Rate (acfm):	10150.0
Oxygen Content in Exhuast (%O2):	14.00
CO Concentration in Exhaust (ppmvd):	
Total VOC Concentration in Exhaust (ppmvd):	

09625 NAP Industries Group, LLC. PCP000000 U1 OS2 (Oxidizer (Thermal) - CD1)
Print Date: 1/27/2025

Maximum Feed Rate to the Oxidizer (tons/hr):	0.05
Maximum Air Supply Flow Rate (acfm):	10500.0
Minimum Air Supply Flow Rate (acfm):	10500.0
Oxygen Content in Exhuast (%O2):	14.00
CO Concentration in Exhaust (ppmvd):	
Total VOC Concentration in Exhaust (ppmvd):	

09625 NAP Industries Group, LLC. PCP000000 U1 OS3 (Printing Press (Graphic Arts))
Print Date: 1/27/2025

Objects being Printed?	bags
Material of Objects being Printed?	Plastic
Describe:	
VOC Content in Ink as applied (after thinning) (lbs/gal):	7.50
Type of Ink Being Applied:	Flexographic
Maximum Ink used (gal/hr):	10.00
Maximum Ink used (gal/day):	50.00
Maximum Ink used (gal/yr):	12,500.00
Maximum % Weight of VOC in Ink as applied:	75.00
Maximum % Weight of Water in Ink as applied:	
Maximum % Volume of VOC in Ink as applied:	
Maximum % Volume of VOC in Ink as Emitted:	
Maximum % Volume of Water in Ink as applied:	
Have you Attached the MSDS for the Ink?	○ Yes ● No
Comments:	

09625 NAP Industries Group, LLC. PCP000000 U1 OS3 (Oxidizer (Thermal) - CD1)
Print Date: 1/27/2025

Maximum Feed Rate to the Oxidizer (tons/hr):	0.06
Maximum Air Supply Flow Rate (acfm):	6150.0
Minimum Air Supply Flow Rate (acfm):	6150.0
Oxygen Content in Exhuast (%O2):	14.00
CO Concentration in Exhaust (ppmvd):	
Total VOC Concentration in Exhaust (ppmvd):	

09625 NAP Industries Group, LLC. PCP000000 U1 OS4 (Oxidizer (Thermal) - CD1)
Print Date: 1/27/2025

Maximum Feed Rate to the Oxidizer (tons/hr):	0.05
Maximum Air Supply Flow Rate (acfm):	6150.0
Minimum Air Supply Flow Rate (acfm):	6150.0
Oxygen Content in Exhuast (%O2):	14.00
CO Concentration in Exhaust (ppmvd):	
Total VOC Concentration in Exhaust (ppmvd):	

09625 NAP Industries Group, LLC. PCP000000 U1 OS5 (Printing Press (Graphic Arts))
Print Date: 1/27/2025

Objects being Printed?	bags
Material of Objects being Printed?	Plastic
Describe:	
VOC Content in Ink as applied (after thinning) (lbs/gal):	7.50
Type of Ink Being Applied:	Flexographic
Maximum Ink used (gal/hr):	10.00
Maximum Ink used (gal/day):	50.00
Maximum Ink used (gal/yr):	12,500.00
Maximum % Weight of VOC in Ink as applied:	75.00
Maximum % Weight of Water in Ink as applied:	
Maximum % Volume of VOC in Ink as applied:	
Maximum % Volume of VOC in Ink as Emitted:	
Maximum % Volume of Water in Ink as applied:	
Have you Attached the MSDS for the Ink?	○ Yes ● No
Comments:	

09625 NAP Industries Group, LLC. PCP000000 U1 OS6 (Oxidizer (Thermal) - CD1)
Print Date: 1/27/2025

Maximum Feed Rate to the Oxidizer (tons/hr):	0.05
Maximum Air Supply Flow Rate (acfm):	8500.0
Minimum Air Supply Flow Rate (acfm):	8500.0
Oxygen Content in Exhuast (%O2):	14.00
CO Concentration in Exhaust (ppmvd):	
Total VOC Concentration in Exhaust (ppmvd):	

09625 NAP Industries Group, LLC. PCP000000 U1 OS7 (Printing Press (Graphic Arts))
Print Date: 1/27/2025

Objects being Printed?	bags
Material of Objects being Printed?	Plastic
Describe:	
VOC Content in Ink as applied (after thinning) (lbs/gal):	7.50
Type of Ink Being Applied:	Flexographic
Maximum Ink used (gal/hr):	10.00
Maximum Ink used (gal/day):	50.00
Maximum Ink used (gal/yr):	12,500.00
Maximum % Weight of VOC in Ink as applied:	75.00
Maximum % Weight of Water in Ink as applied:	
Maximum % Volume of VOC in Ink as applied:	
Maximum % Volume of VOC in Ink as Emitted:	
Maximum % Volume of Water in Ink as applied:	
Have you Attached the MSDS for the Ink?	○ Yes ● No
Comments:	

09625 NAP Industries Group, LLC. PCP000000 U1 OS7 (Oxidizer (Thermal) - CD1)
Print Date: 1/27/2025

Maximum Feed Rate to the Oxidizer (tons/hr):	0.05
Maximum Air Supply Flow Rate (acfm):	8500.0
Minimum Air Supply Flow Rate (acfm):	8500.0
Oxygen Content in Exhuast (%O2):	14.00
CO Concentration in Exhaust (ppmvd):	
Total VOC Concentration in Exhaust (ppmvd):	

09625 NAP Industries Group, LLC. PCP000000 U1 OS8 (Oxidizer (Thermal) - CD1)
Print Date: 1/27/2025

Maximum Feed Rate to the Oxidizer (tons/hr):	0.05
Maximum Air Supply Flow Rate (acfm):	8500.0
Minimum Air Supply Flow Rate (acfm):	8500.0
Oxygen Content in Exhuast (%O2):	14.00
CO Concentration in Exhaust (ppmvd):	
Total VOC Concentration in Exhaust (ppmvd):	

09625 NAP Industries Group, LLC. PCP000000 U1 OS9 (Raw Material)
Print Date: 1/27/2025

Raw Material	CAS Number	Physical State	Molecular Weight (lbs/lbs-mole)	Does the Material Contain VOC?	Weight Fraction (%)	Vapor Pressure @ 70°F (mmHg)	Organic Density	Units
INK		Liquid		Yes				lb/gal

09625 NAP Industries Group, LLC. PCP000000 U1 OS9 (Other Equipment)
Print Date: 1/27/2025

Volume of Gas Discharged from this Source (acfm):	2,000.00

09625 NAP Industries Group, LLC. PCP000000 U1 OS9 (Oxidizer (Thermal) - CD1)
Print Date: 1/27/2025

Maximum Feed Rate to the Oxidizer (tons/hr):	0.01
Maximum Air Supply Flow Rate (acfm):	2000.0
Minimum Air Supply Flow Rate (acfm):	2000.0
Oxygen Content in Exhuast (%O2):	21.00
CO Concentration in Exhaust (ppmvd):	
Total VOC Concentration in Exhaust (ppmvd):	

09625 NAP Industries Group, LLC. PCP000000 U1 OS10 (Surface Coating (NFM))
Print Date: 1/27/2025

Objects being Coated?	plastic packaging
Material of Objects being Coated?	Other
VOC Content in Coating as applied (after thinning) (lbs/gal):	
Density of Coating as applied (after thinning) (lbs/gal):	10.00
Type of Coating Being Applied:	Waterbased Adhesive
Maximum coating used (gal/hr):	15.00
Maximum coating used (gal/day):	312.00
Maximum coating used (gal/yr):	78,000.00
% VOC in Coating Emitted During Process:	
% Overspray (Fraction of the solid component of the Coating Material that does not adhere to the object when the Coating is sprayed. Usually 10-15% for a Booth in good operating condition. About 20% for an old unit.)	
Maximum % Weight of VOC in Coating:	
Maximum % Weight of Solids in Coating:	
Maximum % Weight of Water in Coating:	
Maximum % Volume of VOC in Coating:	
Maximum % Volume of Solids in Coating:	
Maximum % Volume of Water in Coating:	
Operating Hours per Day:	
Operating Hours per Week:	
Have you Attached the MSDS for the Coating?	○ Yes ● No
Comments:	No VOC or HAPs used in lamination operations

09625 NAP Industries Group, LLC. PCP000000 U1 OS11 (Storage Vessel Content)
Print Date: 1/27/2025

Content Name:	Solvent Mixture
CAS Number:	
Is the Content Under Pressure?	No
Pressure (PSIG):	
Physical State:	Liquid
Estimated Average Working Volume:	2,000
Units:	gallons
Density of Contents:	
Units:	lb/gal
Estimated Minimum Storage Temperature (deg F):	65.000
Estimated Maximum Storage Temperature (deg F):	75.000
Estimated Average Storage Temperature (deg F):	
Does the Content Contain VOCs?:	Yes
Organic Density:	6.660
Units:	lb/gal
Molecular Weight (Lbs/Lbs-Mole):	
Vapor Pressure at Average Storage Temperature (PSIA):	0.740
Vapor Pressure at 70 deg F (mmHg):	38.200
Estimated Average Annual Throughput:	200,000.0000
Units:	gallons
Estimated Maximum Annual Throughput:	400,000.0000
Units:	gallons

VOC Emission Calculations

			NJID	OS
Assumptions:		**Press #1**	**E-1**	**OS1, OS2**
100	Worst Case Ink lb/hour	**Press #2**	**E-2**	**OS3, OS4**
75%	Ink VOC by weight	**Press #3**	**E-3**	**OS5, OS6**
10	Worst Case Solvent Use for Ink lb/hour	**Press #4**	**E-4**	**OS7, OS8**
0	HAPs	**RTO**	**CD-1**	
100	Worst Case Cleaning Solvent lb/hour (100% VOC)			
95%	Worst Case Destruction Efficiency (DE)			
98%	*Anticipated Actual DE*			
5,200	Annual Operating Hours - 24 hrs/day Mon-Thurs, Friday 8 hrs, no weekends, 50 wks/yr			
250	Days/yr			
4	Cleaning hrs/day			

Press Printing Operations

Worst Case Hourly VOC Emissions Before controls for OS1, OS3, OS5, OS7

VOC (lb/hr) = VOC ink (lb/hr) + VOC solvent (lb/hr)

VOC (lb/hr) = (Ink lb/hr * % VOC) + (solvent lb/hr at 100% VOC)

VOC (lb/hr) = 100 X 75% + 10

VOC (lb/hr) **85.00** Each Press

Worst Case Hourly VOC Emissions After Controls for each OS1, OS3, OS5, OS7

95% Destruction Efficiency (DE) = VOC (lb/hr) * (1 - DE)

95% DE = 85.00 X 5%

Worst Case Emissions per press 4.25 lb/hr

Press Cleaning Operations

Worst Case Hourly VOC Emissions Before Controls for OS2, OS4, OS6, OS8

VOC (lb/hour) = Solvent Usage/hour

VOC (lb/hour **80** lb/hr

Worst Case Hourly VOC Emissions After Controls for OS2, OS4, OS6, OS8

95% Destruction Efficiency (DE) = VOC (lb/hr) * (1 - DE)

95% DE = 80.00 X 5%

Worst Case Emissions 4.00 lb/hr each

Annual VOC Emissions (OS0)

Annual Emissions for all four (4) presses combined

Press #1 = 4.75 tpy, Press #2 = 4.75 tpy, Press #3 = 4.75 tpy, Press #4 = 4.75 tpy

Annual VOC = 19 Tons/Yr

Emission Calculations for Laminator

	NJID
Laminator	**E-6**
	OS10

Assumptions:

150 lbs/hour "worst case" maximum adhesive coating

Coating application contains 0% VOC

HAPs are not found/used in any lamination coating or operations

Water is used for cleaning operations

No particulate emissions are generated during the process

Deminimis particulate emissions are a worst case scenario

780,000	lbs/yr
3,120	lbs/day
78,000	gals/yr
312	gals/day
15	gals/hr

CD-1 (RTO) - Max Input Rating MMBTU/Hr:	RTO CD-1 - Printing Operations							
8,300,000	**NOx**	**SOx**	**VOC**	**Pb**	**PM-10**	**TSP**	**CO**	
Total Burner(s) Rating	8,300,000	8,300,000	8,300,000	8,300,000	8,300,000	8,300,000	8,300,000	BTU/hr
Heating Value of fuel used	1020	1020	1020	1020	1020	1020	1020	BTU/gal or cf
Amount of fuel burned in an hour	8,137	8,137	8,137	8,137	8,137	8,137	8,137	gal or cf/hr
Emission Factor	0.0001	0.0000006	0.0000055	5E-10	0.0000076	0.0000076	0.000084	lbs/cf
Pounds emitted per hour	0.814	0.005	0.045	4.06863E-06	0.062	0.062	0.684	lbs/hour

Total Emissions				
	Total Hrs	**Lbs/Hr**	**Lbs/yr**	**Tons/yr**
NOX	8,760	**0.814**	**7,128**	**3.56**
SOX	8,760	**0.005**	**43**	**0.02**
VOC	8,760	**0.045**	**392**	**0.20**
Lead	8,760	**0.000004**	**0.04**	**0.000018**
PM-10	8,760	**0.062**	**542**	**0.27**
TSP	8,760	**0.062**	**542**	**0.27**
CO	8,760	**0.684**	**5,988**	**2.99**

INK ROOM EMISSIONS

Equipment and Operating Scenario	VOC constituent	CAS	VP, mmhg	max conc	gal (tank size)	lb/gal	constituent, lbs	S	VP PSI	MW	const	temp., R	lb/1000 gal	lbs/per gal container	moles of constituents	lb/hr
E-5, OS9, CD1	Ink (Ethanol used for worst case)	64-17-5	50	1	5.00	7.70	38.50	1.45	0.97	46.07	12.4600	537.0000	2.7602	0.0138	0.0018	0.0531

Notes:
Worst case emissions from mixing

Worst Case VOC Before Control
0.053 lbs/hour
138.012 lb/yr
0.069 ton/yr

Worst Case VOC After Control
0.001 lbs/hour
2.760 lb/yr
0.001 ton/yr

Mixing in five gallon containers

400,000	lbs ink
50,000	gals ink
10,000	containers mixed
5,200	hrs/yr facility operations
2,600	hrs/yr ink room mix hours
250	days/yr total
10.4	total hrs /day
40	containers/day
3.85	containers/hr

NJAC 27-16.16d - Maximum allowable emission rate

Five gallon ink container mixing operation

1. Determine vapor pressure.

	VP constituent, psi	fraction
Ethanol - used for worst case calculations	0.97	1.00

2. Determine % by volume

P=	14.7	psi
v=	2000	cfm
R=	10.73	PSI-Ft3/mole-r
T=	537	R
n (air)=PV/RT	5.10	moles/min.

VOC, moles per hour from calc sheet
0.001792
VOC, Mole/min
0.0000299
mole % =volume % in an ideal gas.
Concentration of VOC by volume, percent
0.00059

3. Based on values from 1 and 2 above, Table 16B yields Range C

4. NA. VP below 14.7

5. From table A the allowable % VOC is 15. This operation is below that.

6. From table A the allowable emission rate is 2.5 lb/hr. This operation is below that.

Comparison values

	Table A Limit	Process
% Volume of VOC	15	0.000585
Emission rate lbs/hr	2.5	0.0530816

													Loading			
Equipment and Operating Scenario	**VOC constituent**	**CAS**	**VP, mmhg**	**max conc**	**gal (tank size)**	**lb/gal**	**constituent, lbs**	**S**	**VP PSI**	**MW**	**const**	**T, R**	**lb/1000 gal**	**lbs**	**moles of constituents**	**moles total**	**liquid mole fraction, x**
E7, OS11	80/20 Solvent		38.2	1	2,000	6.67	13,332	1.45	0.739	46.07	12.4600	537.00	1.1452	**2.2905**	0.0497	0.0497	1.0000

Notes: **psi** **0.74**
Worst case emissions occur during loading

Worst Case VOC

2.290	**lbs/hour**	**200**	**Fills/Year**
458	**lb/yr**	**400,000**	**gals/yr**
0.229	**ton/yr**		

Product Identity **80/20 Solvent - from Pride Solvents & Chemical**

Ethanol	**65-75%**
n-Propoanol	**15-25%**
n-Propyl Acetate	**0-5%**
isopropanol	**0-5%**

NJAC 27-16.2 - VOC storage tank

2000 gallon Solvent Storage Tank

Step 1: Determine the vapor pressure at standard conditions in pounds per square inch absolute of the VOC to be stored.

Determination: VP =0.74 PSI (38.2 mmHg)

Step 2: Select the appropriate line in Table 2A for the vapor pressure determined in Step 1.

See table 2A for Tank Capacity provided in Thousands of Gallons

Step 3: Determine the maximum tank capacity in thousands of gallons.

Determination: 300,000 gallons

Step 4: Find the tank capacity Range classification for the vapor pressure determined under Step 1.

Determination: Range I

Step 5: Determine the control requirements in accordance with the following *(Range I: No control apparatus required under this subsection. Range II: Conservation vent required. Range III: Floating roof required)*

Determination: Range I: No control apparatus required under this subsection.