

State of New Jersey

Department of Environmental Protection
Air Quality Permitting

General Permit
For
Research and Development

This General Permit allows for the construction, installation, reconstruction, modification and operation of equipment used for research and development meeting the applicability requirements in Section III of this permit. Details of modifications allowed in this permit are located in Section V of this permit.

An owner or operator should check to see if air pollution control permits are needed prior to the installation and operation of any equipment not described in this permit.

Each facility may possess only one GP-020 at any time.

I. Definitions

The following terms, when used in this General Permit shall have the meanings given to them in N.J.A.C. 7:27 et seq., and/or as listed below, unless the context clearly indicates otherwise.

“General Permit” means a type of standardized permit and certificate, issued by the Department under N.J.A.C. 7:27-8.8.

“Hazardous Air Pollutant (HAP)” means a pollutant listed in Table B of N.J.A.C. 7:27-8 Appendix A.

“Maximum Achievable Control Technology (MACT)” means a standard or rule promulgated under 40 CFR 63.

“Toll Operations” means facilities that produce formulas or products for many clients. The same formula or product may be produced many times or new materials may be manufactured on a regular basis. This term does not include operations that meet the definition of R&D facility.

“Research and Development Facility (R&D)” means a facility meeting the definition at N.J.A.C. 7:27-22.1.

“Product Days” means the manufacture of any one product for commercial sale in any calendar day. For example, manufacturing three different products in one day is considered to be three product days. Manufacturing one product over a three-day period is also considered to be three product days.

II. Authority

This General Permit is issued under the authority of N.J.S.A. 26:2C-9.2. It shall allow for inspections and evaluations to assure conformance with all provisions of N.J.A.C. 7:27. An opportunity for public comment was provided on January 3rd, 2006.

This General Permit is issued in accordance with N.J.A.C. 7:27-8.1 et seq.

III. Applicability

This General Permit allows for the construction, installation, reconstruction, modification and operation of equipment used for research and development meeting the following:

1. Source Operations that are required to obtain Air Quality Permits pursuant to:
 - a. N.J.A.C. 7:27-8.2(c) 2 Any source operation or equipment that has the potential to emit any Group 1 or Group 2 TXS (or a combination thereof) at a rate greater than 0.1 pounds per hour (45.4 grams per hour);
 - b. N.J.A.C. 7:27-8.2(c) 12 Equipment that is used in a surface coating operation in which the quantity of coating or cleaning material used in any one hour is equal to or greater than one half gallon of liquid;
 - c. N.J.A.C. 7:27-8.2(c) 19 Equipment in which the combined weight of all raw materials used exceeds 50 pounds in any one hour
2. Are located at a Research and Development (R&D) Facility, as defined in N.J.A.C. 7:27-22.1;
3. Do not exceed the emission limits listed in Tables 2 and 3 of the General Permit;
4. Do not emit quantifiable emissions of any compound listed in Table 1; and
5. Do not exceed more than 90 product days per calendar year for the permitted equipment.

A facility may possess only one GP-020 at any time; however, there is no limit to the number of pieces of equipment that may be included in the General Permit.

All stipulated requirements contained within this General Permit are applicable only to operations that require a preconstruction permit and operating certificate pursuant to N.J.A.C. 7:27-8.2(c) 2, 12 or 19. At times, the same equipment used to conduct a “permit-required” operation may be used to conduct operations that do not require an air permit pursuant to these N.J.A.C. 7:27-8 requirements. During these operations that do not require an air permit, the requirements of this general permit are not applicable.

The facility must maintain a written procedure for determining general permit applicability for all operations. This procedure and its related information must be readily accessible to NJDEP inspectors. It is the responsibility of the owner or operator of a facility to determine whether its equipment or source operation is subject to the requirements of N.J.A.C. 7:27-8.2(c) 2, 12 or 19.

IV. Exclusions

The following are not allowed in this General permit:

1. Toll Operations not meeting the definition of R&D Facility; or
2. Surface coating operations using non-compliant coatings; or
3. Emissions of any Bio-safety Level 2 or higher contaminant; or
4. Any Combustion Source (excluding combustion equipment that is used to control air pollution)
5. Quantifiable emissions of the compounds listed in Table 1.

Table 1. **Excluded Compounds**

CAS Number	Excluded Compounds
309002	Aldrin
	Arsenic Compounds (excluding Arsine)
1332214	Asbestos
92875	Benzidine
542881	Bis(chloromethyl)ether
57749	Chlordane
	Coke oven emissions
50293	DDT
189559	Dibenzo(a,h)pyrene
189559	Dibenzo(a,l)pyrene
189559	Dibenzo(a,i)pyrene
60571	Dieldrin
	Diesel exhaust particulate
57976	Dimethylbenzanthracene (7,12-)
42397648	Dinitropyrene (1,6-)
	Dioxins and Furans ^a
151564	Ethyleneimine
76448	Heptachlor
	Hexavalent Chromium (Chrome VI)
	Lead
	Mercury
	Nickel
7496028	Nitrochrysene (6-)
62759	N-Nitrosodimethylamine
59892	N-Nitrosomorpholine
684935	N-Nitroso-N-methylurea
1336363	Polychlorinated biphenyls
	Radionuclides

^a (as defined in EPA/625/3-87/012, Interim Procedures for Estimating Risks Associated with Exposure to Mixtures of Chlorinated-p-Dioxins and Dibenzofurans).

V. Modifications

Sources permitted under this General Permit may make changes to the Research and Development operation including addition, modification or deletion of equipment, control devices and emission points provided these changes do not result in an exceedance of the emission limits listed in Section VI. If the owner or operator changes equipment, control devices, or emission points, then the on-site inventory list must be updated and maintained on-site. The owner or operator shall re-register before the expiration date of this general permit if they wish to continue to operate after the expiration date.

VI. Maximum Allowable Emission Limits

The Potential to Emit (PTE) for the criteria pollutants regulated by GP-020 will be limited by the option chosen from Table 2 below, which is included on the General Permit Registration Form.

The PTE limit for the criteria pollutants for individual equipment are based on applicable regulatory requirements, which are listed in Section VII.

Table 2. Emission Limits

(PTE established by selection regardless of the number of pieces of equipment.)

Air Contaminant	Maximum Annual Emission Limit (tons per year)							
	0.0	0.1	0.5	1.0	2.0	3.0	4.0	5.0
Acetone	0.0	0.1	0.5	1.0	2.0	3.0	4.0	5.0
Ammonia	0.0	0.1	0.5	1.0	2.0	3.0	4.0	5.0
CO	0.0	0.1	0.5	1.0	2.0	3.0	4.0	5.0
HAP (Total)	0.0	0.1	0.5	1.0	2.0	3.0	4.0	5.0
NO _x	0.0	0.1	0.5	1.0	2.0	3.0	4.0	5.0
PM10	0.0	0.1	0.5	1.0	2.0	3.0	4.0	5.0
SO ₂	0.0	0.1	0.5	1.0	2.0	3.0	4.0	5.0
Sodium Hydroxide	0.0	0.1	0.5	1.0	2.0	3.0	4.0	5.0
T-Butyl Acetate	0.0	0.1	0.5	1.0	2.0	3.0	4.0	5.0
TSP	0.0	0.1	0.5	1.0	2.0	3.0	4.0	5.0
VOC	0.0	0.1	0.5	1.0	2.0	3.0	4.0	5.0

NOTE: When registering for this general permit, only one emission limit can be selected for each air contaminant listed in Table 2. If no limit is selected for an air contaminant the limit will be set to 0.0.

The PTE for the compounds listed in Table 3 below for individual equipment are based on risk screening or reporting thresholds listed at N.J.A.C. 7:27-8 Appendix 1 Table B. Any other Hazardous Air Pollutants (HAP) not listed in Table 3 must be lower than the reporting thresholds on an equipment by equipment basis as listed at N.J.A.C. 7:27-8 Appendix 1 Table B.

Table 3. Pollutant Specific Equipment Emission Limits

CAS No.	Chemical	Batch Cycle Emission Limit (lb./hr)	Annual Emission Limit (lb./yr)
79345	1,1,2,2-Tetrachloroethane	N/A	20
79005	1,1,2-Trichloroethane	N/A	74
123911	1,4-Dioxane	6	150
584849	2,4-/2,6-Toluene diisocyanate	0.02	20
67641	Acetone	295 a	
107028	Acrolein	0.0004	8
7664417	Ammonia	6 a	
62533	Aniline	1	200
7784421	Arsine (arsenic compound)	0.3	1
71432	Benzene	3	150
100447	Benzyl chloride	0.5	20
56235	Carbon tetrachloride	5	80
7782505	Chlorine	0.4	20
10049044	Chlorine dioxide	0.1 a	
67663	Chloroform	0.4	50
76062	Chloropicrin	0.1 a	
110827	Cyclohexane	7 a	
106898	Epichlorohydrin	2	400
100414	Ethylbenzene	5	2000
106934	Ethylene dibromide	N/A	5
107062	Ethylene dichloride	N/A	45
111762	Ethylene glycol monobutyl ether	7 a	
110805	Ethylene glycol monoethyl ether	1	1000
109864	Ethylene glycol monomethyl ether	0.2	1000
75218	Ethylene oxide	0.1	20
50000	Formaldehyde	0.2	400
302012	Hydrazine	0.03	0.8
7647010	Hydrogen chloride	4	2000
74908	Hydrogen cyanide	1	1000
7664393	Hydrogen fluoride	0.5	20
7783075	Hydrogen selenide	0.01	20
7783064	Hydrogen sulfide	0.1 a	
67630	Isopropanol	6 a	
71556	Methyl chloroform	7	2000
75092	Methylene chloride	7	2000
7697372	Nitric acid	0.2 a	
75445	Phosgene	0.01	20
75569	Propylene oxide	6	1000
1310732	Sodium hydroxide	0.02 a	
	Sulfates	0.2 a	
	Sulfuric acid and oleum	0.2 a	
127184	Tetrachloroethylene	38	200
79016	Trichloroethylene	N/A	590
121448	Triethylamine	5	2000

Footnote:

a. Annual emission limit for these pollutants is determined by multiplying the number of pieces of equipment emitting these pollutants times the lb./hr listed times 8760 hours, or by the PTE selected in Table 2 or it is determined by existing rule limitations, whichever is lower.

VII. FACILITY SPECIFIC REQUIREMENTS

COMPLIANCE PLAN:

Ref. #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1.	Any operation of equipment which may cause off-property effects, including odors, 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)]	None.	None.	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 within 15 minutes 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)]
2.	Prohibition of Air Pollution: Notwithstanding compliance with other subchapters of N.J.A.C. 7:27, no person shall suffer, allow, or permit to be emitted into the outdoor atmosphere substances in quantities that result in air pollution as defined at N.J.A.C. 7:27-5.1. Applicable to all facilities located in New Jersey. [N.J.A.C. 7:27-5]	None.	None.	None.
3.	Particulate Emissions: No person shall cause, suffer, allow or permit particles to be emitted from any source operation through any stack or chimney into the outdoor air in excess of the maximum allowable emission rate as determined pursuant to N.J.A.C. 7:27-6.2(a). [N.J.A.C. 7:27-6.2(a)]	Particulate Emissions: Monitored by calculations each quarter based on a 1-hour block average. The Permittee shall calculate the particulate emissions for each source operation quarterly. [N.J.A.C. 7:27-8.13(d)]	Particulate Emissions: Recordkeeping by manually logging parameter quarterly. The Permittee shall record the particulate emissions for source operation quarterly. All records, including those associated with the methods used to determine eligibility for this General Permit, must be readily accessible and be made available to the Department for a minimum of 5 years. [N.J.A.C. 7:27-8.13(d)]	Notify by phone: Upon exceeding any emission limits, the Permittee shall notify the Department immediately of the event. Such notification shall be made by calling the Environmental Action Hotline at (877) 927-6337 [N.J.A.C. 7:27-8.13(a)]

Ref. #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4.	<p>Opacity: 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 or equal to 20 percent opacity, exclusive of condensed water vapor, except for a period of not longer than three minutes in any consecutive 30-minute period.</p> <p>[N.J.A.C. 7:27-6.2(d)] & [N.J.A.C. 7:27-6.2(e)]</p>	<p>Opacity: Monitored by visual determination monthly based on an instantaneous determination. For compliance with the opacity standard, the Permittee shall conduct visual opacity inspections during daylight hours while the R&D facility is operating. Visual inspections shall consist of a visual survey to identify if the stack has visible emissions. If visible emissions are observed, the Permittee shall perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. If visible emissions greater than the prescribed standard are observed, the Permittee shall perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2 each day until corrective actions taken result in opacity readings below the prescribed standard.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>	<p>Opacity: Recordkeeping by manually logging parameter monthly and retain the following records for each emission point:</p> <ol style="list-style-type: none"> (1) Date and time of visual determination; (2) Record whether or not visible emissions were observed during operations; (3) Emission point number (if visual emissions were observed); (4) N.J.A.C. 7:27B-2 observed results and conclusions (including Opacity readings less than 20%); (5) Operation status of the R&D facility, including which emission points have equipment actively venting at the time visual emissions exceeded the standard (20% Opacity); (6) Description of corrective action taken if needed; (7) Date and time opacity problem was solved, if applicable; (8) Name of person(s) conducting inspection. <p>[N.J.A.C. 7:27-8.13(d)]</p>	<p>Notify by phone: Upon occurrence of visible emissions, the Permittee shall notify the Department immediately of the event. Such notification shall be made by calling the Environmental Action Hotline at (877) 927-6337</p> <p>[N.J.A.C. 7:27-8.13(a)]</p>
5.	<p>Emissions of all air contaminants shall be below all emission limits specified in Section VI and applicable regulatory emission limitations listed in Reference numbers 3, 12, 13, & 14 of this General Permit. All HAPs not listed in Section VI or excluded under Table 1 must be less than the reporting thresholds.</p> <p>[N.J.A.C. 7:27-8.13(a)]</p>	<p>The Permittee shall calculate the hourly emissions quarterly using operating records and one of the following methods: Continuous emissions monitoring; predictive emissions monitoring; source emission testing; mass/material balance; AP-42 emission factor or other EPA-approved emission estimation methodology (for example, TANKS4), engineering calculations or manufacturer's specifications or estimates.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>	<p>Maintain emissions calculation records to verify that emissions of all air contaminants are below the hourly reporting thresholds specified in Section VI of this General Permit, including operating records, raw material list, and the method used to calculate actual emissions. All records, including those associated with the methods used to determine eligibility for this General Permit, must be readily accessible and be made available to the Department for a minimum of 5 years.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>	<p>Notify by phone: Upon exceeding any emission limits, the Permittee shall notify the Department immediately of the event. Such notification shall be made by calling the Environmental Action Hotline at (877) 927-6337</p> <p>[N.J.A.C. 7:27-8.13(a)]</p>

Ref. #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6.	<p>The Permittee shall determine whether a R&D Operation is subject to the requirements of N.J.A.C. 7:27-8.2(c) 2, 12 or 19. The facility must maintain a written procedure for determining general permit applicability for all operations. This procedure, and its related information must be readily accessible to NJDEP inspectors.</p> <p>[N.J.A.C. 7:27-8.13(a)]</p>	None	<p>The permittee must have sufficient information available to enable facility personnel to demonstrate that any given R&D operation is or is not subject to the requirements of this permit.</p> <p>All information, including that associated with the methods used to determine eligibility for this General Permit, must be readily accessible and be made available to the Department for a minimum of 5 years.</p>	None
7.	<p>Annual Report: The Permittee shall submit an annual report on Departmental forms to the Department on April 1 of every year summarizing compliance with this General Permit including:</p> <ol style="list-style-type: none"> 1. Certified statement of compliance with all emission limits in Section VI and any other regulatory limit including Reference numbers 3, 5, 12, 13, and 14 2. Summary of estimated actual annual emissions in a format approved by the Department 3. Number of product days (Reference number 10) 4. Any instance of Non-compliance with any condition of this permit. <p>[N.J.A.C. 7:27-8.13(a)]</p>	None	<p>Annual Report: All supporting documentation for the annual report shall maintained on-site including but not limited to: calculations used to determine emissions opacity observations and Coating Application System Transfer Efficiency calculations. All records, including those associated with the methods used to determine eligibility for this General Permit, must be readily accessible and be made available to the Department for a minimum of 5 years.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>	<p>Submit a Report: The Permittee shall submit an annual report for operations during the previous calendar year to the Department by April 1 of every year to the appropriate Regional Enforcement Office and the Bureau of Technical Services Air Quality Evaluation Section.</p> <p>[N.J.A.C. 7:27-8.13(a)]</p>

Ref. #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8.	<p>On-site Inventory: The Permittee shall maintain on-site a current inventory list of all equipment, control devices, and emission points registered under this General Permit.</p> <p>The on-site inventory list must be updated by the Permittee for changes to equipment, control devices, or emission points.</p> <p>[N.J.A.C. 7:27-8.13(a)]</p>	None	<p>On-site Inventory: Recordkeeping by manually logging parameter upon the occurrence of event. The Permittee shall maintain on-site a current inventory list of all equipment, control devices, or emission points registered under this General Permit.</p> <p>If source operation changes equipment, control devices, or emission points then the on-site inventory list must be updated.</p> <p>All records, including those associated with the methods used to determine eligibility for this General Permit, must be readily accessible and be made available to the Department for a minimum of 5 years.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>	None
9.	<p>All equipment and control apparatus including all components connected or attached to these units must be functioning properly and must be operated and maintained in accordance with manufacturer's specifications if applicable and used in accordance with all conditions and provisions of this permit.</p> <p>[N.J.A.C. 7:27-8.13(a)]</p>	None	<p>Copies of the manufacturers' specifications (if applicable) of all equipment and control apparatus must be readily accessible and be made available to the Department for a minimum of 5 years.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>	None
10.	<p>Product Days < 90.</p> <p>[N.J.A.C. 7:27-8.13(a)]</p>	<p>Product Days: Monitored by calculations at the conclusion of each experiment, the Permittee shall calculate the number of product days for each experiment using production records</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>	<p>Product Days: Recordkeeping by manually logging parameter after the conclusion of each experiment. The Permittee shall record the number of product days for each experiment. All records must be readily accessible and be made available to the Department for a minimum of 5 years.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>	<p>Submit a Report: Permittee report annually the number of product days as part of the annual report submitted in reference number 7.</p> <p>[N.J.A.C. 7:27-8.13(a)]</p>

Ref. #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11.	<p>Maximum No. of Billable Compliance Inspections \leq 2 inspections. The equipment covered by this permit will be subject to inspection fees for the maximum periodic compliance inspections (as defined in N.J.A.C. 7:27-8.1) over the life of the Certificate. The Permittee will be invoiced for a service fee per inspection pursuant to N.J.A.C. 7:27-8.6 after the periodic compliance inspection is conducted.</p> <p>[N.J.A.C. 7:27-8.13(e)]</p>	None	None	None
12.	<p>Coating Application System Transfer Efficiency \geq 60%. No person shall cause, suffer, allow, or permit the application of a surface coating formulation which does not contain water deliberately added in a planned proportion unless a coating application system having a transfer efficiency of 60 percent or greater is used.</p> <p>[N.J.A.C. 7:27-16.7 (d)]</p>	<p>Coating Application System Transfer Efficiency: Monitored by evaluation of VOC coating transfer efficiency once initially for each coating formulation or by calculations based on manufacturer's specifications.</p> <p>[N.J.A.C. 7:27-16.22 (f)]</p>	<p>Coating Application System Transfer Efficiency: Recordkeeping by manual logging of parameter quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, October 1 of each year.</p> <p>[N.J.A.C. 7:27-16.7 (n) 1]</p>	<p>Notify by phone: Upon exceeding any emission limits, the Permittee shall notify the Department within three calendar days of discovering the exceedance. Such notification shall be made by calling the Environmental Action Hotline at (877) 927-6337.</p> <p>[N.J.A.C. 7:27-8.13(a)]</p>

Ref. #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13.	<p>Maximum Allowable VOC Content per Volume of Coating (Minus Water): The VOC content of any surface coating formulation as applied may not exceed the applicable maximum allowable VOC content as specified in Table 7A, 7B, 7C, or 7D at N.J.A.C. 7:27-16.7 (c).</p> <p>[N.J.A.C. 7:27-16.7 (c) 1]</p>	<p>Maximum Allowable VOC Content per Volume of Coating (Minus Water): Monitored by calculations once initially for each coating formulation applied..</p> <p>[N.J.A.C. 7:27-16.7 (m)]</p>	<p>Maximum Allowable VOC Content per Volume of Coating (Minus Water): Recordkeeping by manually logging parameter in accordance with N.J.A.C. 7:27-16.7 (m). The owner or operator of any surface coating operation applying only surface coating formulations which are subject to and conform with the applicable VOC content limit set forth in Table 7A, 7B, 7C, or 7D of N.J.A.C. 7:27-16.7 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.</p> <p>All records, including those associated with the methods used to determine eligibility for this General Permit, must be readily accessible and be made available to the Department for a minimum of 5 years.</p> <p>[N.J.A.C. 7:27-16.7 (m)]</p>	<p>Notify by phone: Upon exceeding any emission limits, the Permittee shall notify the Department within three calendar days of discovering the exceedance. Such notification shall be made by calling the Environmental Action Hotline at (877) 927-6337.</p> <p>[N.J.A.C. 7:27-8.13(a)]</p>
14.	<p>VOC (Total): No person shall cause, suffer, allow, or permit any VOC to be emitted into the outdoor atmosphere from any source operation subject to the provisions of N.J.A.C. 7:27-16.16, in excess of the maximum allowable emission rate, as determined in accordance with the procedures listed at N.J.A.C. 7:27-16.16 (d) & N.J.A.C. 7:27-16.16 (f) 2.</p> <p>[N.J.A.C. 7:27-16.16 (d) & (f)2]</p>	<p>VOC (Total): Monitored by calculations pursuant to N.J.A.C. 7:27-16.16 (g)</p> <p>[N.J.A.C. 7:27-16.16 (g) 1]</p>	<p>VOC (Total): Recordkeeping by manually logging parameter. The Permittee shall maintain records for each source operation pursuant to N.J.A.C. 7:27-16.16 (g). All records, including those associated with the methods used to determine eligibility for this General Permit, must be readily accessible and be made available to the Department for a minimum of 5 years.</p> <p>[N.J.A.C. 7:27-8.13(d)]</p>	<p>Notify by phone: Upon exceeding any emission limits, the Permittee shall notify the Department within three calendar days of discovering the exceedance. Such notification shall be made by calling the Environmental Action Hotline at (877) 927-6337.</p> <p>[N.J.A.C. 7:27-8.13(a)]</p>

Ref. #	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15.	<p>Stack height: No person shall cause, suffer, allow, or permit any GROUP I TXS to be emitted from any source operation into the outdoor atmosphere unless such a discharge is:</p> <ol style="list-style-type: none"> 1. At an effective stack height of no less than 40 feet (12.2 meters) above grade; 2. No less than 20 feet (6.1 meters) higher than any area of human use or occupancy including, but not limited to, the roof of a building, which is within 50 feet (15.2 meters), measured horizontally from the point of discharge; and 3. Directed vertically upward <p>This Requirement shall not apply to any source operation in which the GROUP I TXS:</p> <ol style="list-style-type: none"> 1. Was not added to or deliberately formed in a raw material or a finished product; and 2. Does not exceed 0.25 percent by weight of any raw material or finished product; and 3. Is not emitted from any source operation, storage tank, or transfer operation at a rate in excess of 0.1 pounds (45.4 grams) per hour. <p>[N.J.A.C. 7:27-17.4 (a)]</p>	None.	None.	None.