

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PERMITTING
GENERAL PERMIT REGISTRATION FORM FOR RESEARCH AND DEVELOPMENT

SECTION A: FACILITY PROFILE

Facility ID Number \_\_\_\_\_ Facility Name \_\_\_\_\_

Street Address
Address Line 1 \_\_\_\_\_ Address Line \_\_\_\_\_
2 \_\_\_\_\_ Address Line \_\_\_\_\_
3 \_\_\_\_\_ City \_\_\_\_\_
State \_\_\_\_\_ Zip \_\_\_\_\_

Mailing Address
[ ] Check if same as street address above
Address Line 1 \_\_\_\_\_
Address Line 2 \_\_\_\_\_
3 \_\_\_\_\_ City \_\_\_\_\_

Mailing Instructions and Information:
Mail Registration Form & Fee to:
NJDEP - Air Quality Permitting Program
401 E. State Street, PO Box 027
Trenton, New Jersey 08625-0027
Application Fee: \$820
Make check payable to:
Treasurer, State of NJ
For Assistance, Please call:
(609) 633-2829

County
County Where Facility Is Located \_\_\_\_\_

Location Description
\_\_\_\_\_
\_\_\_\_\_

Industry Information
NAICS Code \_\_\_\_\_

Facility Contact
Contact Person (check one or check both if owner is the operator) [ ] Owner [ ] Operator
Name \_\_\_\_\_ Organization \_\_\_\_\_
Title \_\_\_\_\_ Organization \_\_\_\_\_ Type \_\_\_\_\_
Phone ( ) \_\_\_\_\_ NJ \_\_\_\_\_
EIN \_\_\_\_\_ Mailing \_\_\_\_\_ Fax ( ) \_\_\_\_\_
Other ( ) \_\_\_\_\_ Address \_\_\_\_\_
Line 2 \_\_\_\_\_ Type \_\_\_\_\_ Address \_\_\_\_\_
Line 3 \_\_\_\_\_ E-mail \_\_\_\_\_ City \_\_\_\_\_
State \_\_\_\_\_ Zip \_\_\_\_\_

SECTION B: REASON FOR APPLYING

(Check one)

New and/or Existing, Unpermitted Unit(s)

Permitted Unit(s) Previous Permit and/or Certificate Number(s): \_\_\_\_\_

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**SECTION C: SOURCE OPERATION DESCRIPTION**

**Briefly describe the R&D operation registered under this general permit including a description of the location of the operation:**  
(Please limit description to 150 characters including spaces and punctuation)

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**Indicate the nature of the R&D operation (Check All that Apply):**

- |                                       |   |
|---------------------------------------|---|
| <input type="checkbox"/> ACADEMIC     | <input type="checkbox"/> INDUSTRIAL             |
| <input type="checkbox"/> AGRICULTURAL | <input type="checkbox"/> PHYSICAL               |
| <input type="checkbox"/> BIOLOGICAL   | <input type="checkbox"/> PHARMACEUTICAL         |
| <input type="checkbox"/> CHEMICAL     | <input type="checkbox"/> OTHER (DESCRIBE) _____ |
| <input type="checkbox"/> FOOD         |   |

**List the types of Equipment Registered under this General Permit (Check All that Apply):**

- |   |   |
|---|---|
| <input type="checkbox"/> GLASS MANUFACTURING FURNACE                    | <input type="checkbox"/> STERILIZER               |
| <input type="checkbox"/> MANUFACTURING AND MATERIALS HANDLING EQUIPMENT | <input type="checkbox"/> SURFACE COATING DRYER    |
| <input type="checkbox"/> OTHER EQUIPMENT (LABORATORY)                   | <input type="checkbox"/> SURFACE COATING (TABLET) |
| <input type="checkbox"/> OTHER EQUIPMENT (DESCRIBE) _____               | <input type="checkbox"/> SURFACE COATING (OTHER)  |

**List the types of Control Devices Registered under this General Permit (Check All that Apply):**

- |  |   |
|--|---|
| <input type="checkbox"/> ADSORBER                      | <input type="checkbox"/> PARTICULATE FILTER (CARTRIDGE) |
| <input type="checkbox"/> BIOFILTER                     | <input type="checkbox"/> PARTICULATE FILTER (HEPA)      |
| <input type="checkbox"/> CONDENSER                     | <input type="checkbox"/> PARTICULATE FILTER (OTHER)     |
| <input type="checkbox"/> CYCLONE                       | <input type="checkbox"/> SCRUBBER (MULTI-STAGE)         |
| <input type="checkbox"/> OXIDIZER (CATALYTIC)          | <input type="checkbox"/> SCRUBBER (PACKED TOWER)        |
| <input type="checkbox"/> OXIDIZER (THERMAL)            | <input type="checkbox"/> SCRUBBER (VENTURI)             |
| <input type="checkbox"/> PARTICULATE FILTER (BAGHOUSE) | <input type="checkbox"/> SCRUBBER (OTHER)               |
| <input type="checkbox"/> OTHER (DESCRIBE) _____        |   |

**SECTION D: PERMITTING OPTIONS**

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 N.J.A.C. 7:27-8.2(c) 2, 12, 19 ;
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 below; and
4. Do not exceed more than 90 Product days per calendar year for the permitted equipment.

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

All stipulated requirements contained within this General Permit are applicable only to operations that require an Air Quality Permit 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.

It is the responsibility of the facility to determine when such equipment is applicable to the above referenced requirements. The facility must maintain on site and readily accessible all documentation including calculations that conclusively show

the experiments in which the equipment is applicable to N.J.A.C. 7:27-8.2 (c) 2, 12 or 19. Failure to provide complete and accurate documentation in a reasonable timeframe upon request of the Department will result in the equipment being subject to the facility specific requirements listed in this permit at all times over the life of the permit.

Annual emission limits must be limited and monitored as specified in the permit. Indicate below how the research and development equipment registered in this permit is being limited by selecting one option for each air contaminant listed below. **Only ONE box** may be checked for each air contaminant listed in the table below. Compliance shall be demonstrated pursuant to Compliance Plan reference item number 5.

**Table 1. 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
<b>CO</b>	0.0	0.1	0.5	1.0	2.0	3.0	4.0	5.0
<b>TSP</b>	0.0	0.1	0.5	1.0	2.0	3.0	4.0	5.0
<b>PM10</b>	0.0	0.1	0.5	1.0	2.0	3.0	4.0	5.0
<b>NO<sub>x</sub></b>	0.0	0.1	0.5	1.0	2.0	3.0	4.0	5.0
<b>SO<sub>2</sub></b>	0.0	0.1	0.5	1.0	2.0	3.0	4.0	5.0
<b>VOC</b>	0.0	0.1	0.5	1.0	2.0	3.0	4.0	5.0
<b>HAP (Total)</b>	0.0	0.1	0.5	1.0	2.0	3.0	4.0	5.0
<b>Acetone</b>	0.0	0.1	0.5	1.0	2.0	3.0	4.0	5.0
<b>Ammonia</b>	0.0	0.1	0.5	1.0	2.0	3.0	4.0	5.0
<b>Sodium Hydroxide</b>	0.0	0.1	0.5	1.0	2.0	3.0	4.0	5.0
<b>T-Butyl Acetate</b>	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 1. If no limit is selected for an air contaminant the limit will be set to 0.0.

**SECTION E: CERTIFICATION**

"I certify under penalty of law that I believe the information provided in this document is true, accurate, and complete. I am aware that there are significant civil and criminal penalties, including the possibility of fine or imprisonment or both, for submitting false, inaccurate or incomplete information."

\_\_\_\_\_  
 Name of Individual Title Signature Date  
 With Direct Knowledge

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attached documents and, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil and criminal penalties, including the possibility of fine or imprisonment or both, for submitting false, inaccurate or incomplete information."

\_\_\_\_\_  
 Name of Responsible Official Title Signature Date

For Department Use Only	PER# _____	Fee
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## INSTRUCTIONS FOR COMPLETING THE REGISTRATION FORM FOR RESEARCH AND DEVELOPMENT

### **SECTION A: FACILITY PROFILE**

**Facility (ID Number & Name)** - Enter the New Jersey air pollution facility identification number (ID) followed by the facility name for which the General Permit is being registered. The ID is a five-digit number assigned by the New Jersey Department of Environmental Protection. Your facility name is the one registered with the New Jersey Secretary of State, under which your facility does business.

**Street Address** - Enter the address of the facility where the equipment to be permitted is physically located.

**Mailing Address** - Enter the facility's mailing address. If it is the same as the facility location, check the box provided.

**Mailing Instructions & Information** - Once the General Permit Registration Form has been completed, it should be mailed along with the appropriate fee to the New Jersey Department of Environmental Protection at the address listed on the front page of the Registration form. Make check payable to "Treasurer, State of New Jersey".

**County** - Enter the county in which the facility is located (**not the mailing address County**).

**Location Description** - Describe the facility's location if it is difficult to find using the street address. If you have to give a visitor directions to your facility, consider showing them here. (*Example: Two miles down the access road that leaves state highway 29 at mile marker 10.*)

**Industry Information** - Enter the facility's four-digit primary and secondary (if any) Standard Industrial Classification Codes (SIC) and the six-digit primary and secondary (if any) North American Industry Classification System. Use the codes registered with the US Department of Labor. You may also refer to the Standard Industrial Classification Manual or the 2002 US NAICS Manual from the U.S. Office of Management and Budget

**Facility Contact** - Check the box indicating the facility contact person for this General Permit Registration. If the owner and operator are the same, check both boxes. Enter the name, title, phone and fax numbers, other phone numbers and type of number (*Example: pager, toll free, cell phone*), e-mail address, the organization that the contact person works for, the type of organization (federal, local, public, private, state or utility), the New Jersey Employer Identification Number (EIN) and the contact mailing address.

### **SECTION B: REASON FOR APPLYING**

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This section of the General Permit Registration Form provides the Department with the reason the General Permit Registration Form is being submitted.

**New and/or Existing, Unpermitted Unit(s)** - Check this box if this application is being filed for a unit(s) for which no current permit exists.

**Permitted Unit(s)** - Check this box if this application is being filed to supersede an existing permit(s) covering a single or multiple units.

**Previous Permit or Certificate Number** - If the Unit(s) which are covered by a previous permit or certificate, list the previous permit or certificate number(s).

### **SECTION C: SOURCE OPERATION DESCRIPTION**

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Please provide a brief description of the R&D operation registered under this general permit. Also include a description of the location of the operation if the facility is not exclusively engaged in Research and Development (e.g. Utilization experiments conducted in Building 37 Lab hoods located in 4<sup>th</sup> floor kilo laboratory.) Please limit the description to 150

characters including spaces and punctuation. Please indicate the nature of the R&D operation by checking all of the options that apply. Please list the types of equipment that are to be registered under this General Permit by checking all of the options that apply. Please list the types of Control Devices that are to be registered under this General Permit by checking all of the options that apply

## **SECTION D: PERMITTING OPTIONS**

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 N.J.A.C. 7:27-8.2(c) 2, 12, 19 ;
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 below; and
4. Do not exceed more than 90 Product days per calendar year for the permitted equipment.

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

All stipulated requirements contained within this General Permit are applicable only to operations that require an Air Quality Permit 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.

It is the responsibility of the facility to determine when such equipment is applicable to the above referenced requirements. The facility must maintain on site and readily accessible all documentation including calculations that conclusively show the experiments in which the equipment is applicable to N.J.A.C. 7:27-8.2 (c) 2, 12 or 19. Failure to provide complete and accurate documentation in a reasonable timeframe upon request of the Department will result in the equipment being subject to the facility specific requirements listed in this permit at all times over the life of the permit.

Annual emission limits must be limited and monitored as specified in the permit. Select one option for each air contaminant listed in the table to indicate how the research and development equipment registered in this permit is being limited. **Only ONE box** may be checked for each air contaminant listed in the table. If no limit is selected for an air contaminant the limit will be set to 0.0. Compliance shall be demonstrated pursuant to Compliance Plan reference item number 5.

## **SECTION E: CERTIFICATION**

Print or type the name and title of person submit with original signature and date the application in the spaces provided.

**Individual with Direct Knowledge** - Individual listed as the contact person or any person with direct knowledge of and responsibility for the information contained in the General Permit Registration Form. This may or may not be the same person who signs as the Responsible Official defined below.

**Responsible Official** - A facility official responsible for the General Permit Registration. A Responsible Official as defined in N.J.A.C. 7:27-1.4 is as follows:

- For a corporation: a president, secretary, treasurer, or vice-president of the corporation; any other person who performs similar policy or decision making functions for the corporation; or a duly authorized representative responsible for the overall operation of a facility (plant manager, etc.).
- For a partnership: a general partner.
- For a sole proprietorship: the proprietor
- For a government agency: either a principal executive officer or ranking elected official.