Title V Air Permit Renewal
Public Information Session
Princeton University, Princeton, New Jersey
February 15, 2024
Princeton University Representatives

- Kristin Appelget, Assistant Vice President Community and Regional Affairs
- Robert F. Ortego, PE, Manager Environmental Compliance, Facilities Operations
Tonight’s Agenda

- Introductions
- Procedural Process
- Environmental Justice in New Jersey
- Title V Air Permit Renewal & Permitting Process
- Highlight of Princeton University Facilities
- Public Input Opportunity
- Public Comment Tonight
Procedural Process

- Enter questions in the Q&A section.
- Please share your name, organization (as applicable), municipality and email or mailing address when submitting a question in the Q&A.
- Once the presentation is completed, the University will address each question in the Q&A section, first stating the question and then providing a response.
- This meeting is being recorded and will be available for playback after tonight’s session on NJDEP’s YouTube page (@NewJerseyDEP) and Princeton University’s website: https://facilities.princeton.edu/news/princeton-university-hosting-public-information-session-title-v-air-operating-permit-renewal.
In 2020, the New Jersey State Legislature passed a new Environmental Justice law requiring NJDEP to explore public health impacts during environmental permit reviews for new, upgraded and/or expanded facilities.

Currently, some facilities seeking to renew certain permits with the NJDEP are required to comply with Administrative Order 2021-25 or the EJ rule.

AO 2021-25 is in place to ensure facilities educate their communities about their operations and obtain public input during permitting processes.

You can find out more information on NJDEP’s EJ regulations at: https://dep.nj.gov/eq/
We have operated with a Title V operating permit under the Environmental Protection Agency’s Clean Air Act since 1999.

Title V permit is issued to all “major” sources of air emissions and defines the steps a facility must do to control sources of air emissions.

Title V permits are required for facilities with:

- major sources of air emissions, solid waste incinerators, landfills and other types of industrial and manufacturing facilities.

We take our environmental responsibilities seriously and communicate with University administration and our regulatory agencies regarding our environmental emissions and compliance.
The Trustees of Princeton University own and operate various facilities on the campus of Princeton University, which support on-campus heating, air conditioning and related power generation. These facilities include:

- 4 Commercial Boilers
- 26 emergency generators
- a Co-generation plant
- a Paint spray booth
- and a Gasoline underground storage tank

The Co-generation plant began supplying power, heating and cooling to campus for almost 27 years ago.
Our 5-year Title V permit renewal (BOP230001) was submitted to NJDEP on 2/23/23 and is pending with the Department until this EJ process is complete.

- Our most recent Title V permit modification (BOP210002) was approved by NJDEP on December 22, 2021.

Summary of PTE (all in tons per year).
- The Co-generation plant accounts for most of the site’s PTE:

<table>
<thead>
<tr>
<th></th>
<th>VOC</th>
<th>NOx</th>
<th>CO</th>
<th>SO2</th>
<th>TSP</th>
<th>PM10</th>
<th>PM2.5</th>
<th>Pb</th>
<th>HAPs total</th>
<th>CO2e</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cogen Plant</td>
<td>39.8</td>
<td>118</td>
<td>127</td>
<td>41.3</td>
<td>20.1</td>
<td>21.6</td>
<td>21.6</td>
<td>0.0015</td>
<td>0.25</td>
<td>No Std.</td>
</tr>
<tr>
<td>Facility Total</td>
<td>51.45</td>
<td>145.87</td>
<td>136.15</td>
<td>42.96</td>
<td>20.84</td>
<td>22.33</td>
<td>22.33</td>
<td>0.0015</td>
<td>0.25</td>
<td>176,750</td>
</tr>
</tbody>
</table>

Actual emissions from facilities are lower than maximum allowed under this operating permit.
Princeton operates a continuous emission monitoring system to measure O2, NOx and CO from the Cogeneration Plant and has multiple air control devices to control emissions. Including:

- Low NOx burners
- Flue gas recirculation
- Water injection system
- Catalytic oxidizer

Our facilities are required to submit reports to the NJDEP and USEPA regarding the facility’s compliance to the Title V air permit requirements.
Our Title V/EJ outreach to the Princeton community included:

- notifying property owners and other individuals within 200 feet of our facility operations
- notifying various Princeton departments, staff, and student body organizations.
- outreach to local, county and state officials in Princeton and West Windsor, Mercer County and New Jersey
- posting of newspaper advertisements in the Princeton Packet and the Americano Hispanic.
- notices on our website and the NJDEP’s Environmental Justice information session hearing calendar: [https://dep.nj.gov/ej/meetings/](https://dep.nj.gov/ej/meetings/)
- Virtual public information session TONIGHT on Zoom.
Princeton University is committed to being transparent throughout this process.

The public comment process is 60+ days from January 15, 2024 to March 18, 2024

We will respond to timely submitted comments from stakeholders and work with the NJDEP on additional analysis as needed.

Please submit your public comment to:

- Comment Email: rfo@princeton.edu
 Enter questions in the Q&A section.

 When asking a question or making a comment, please share your name, organization (as applicable), municipality and email or mailing address if a written response is appropriate.

 The University representatives will address each question in the Q&A section, first stating the question and then providing a response.
Thank You for Attending!

Please Remember:

- Comment period is open from January 15, 2024 to March 18, 2024
  - Comment Email: rfo@princeton.edu
  - Mailing address:
    Princeton University
    Facilities Operations, MacMillan Building
    Department of Civil and Environmental Engineering
    Princeton, N.J. 08544
    Attn: Robert F. Ortego, P.E.