

DIVISION OF AIR QUALITY

AIR QUALITY, ENERGY, AND SUSTAINABILITY

CVP/SRAG MEETING JUNE 12, 2019

AIR PERMITTING OVERVIEW



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WHEN IS AN AIR PERMIT NEEDED?

- See N.J.A.C. 7:27-8.2 Applicability READ FULL TEXT
- 7:27-8.2(c)2 any equipment that has toxic emitted a rate > 0.1 pounds per hour
- 7:27-8.2(c)15 any equipment which is used for treating groundwater, industrial waste water, or municipal wastewater with
- 7:27-8.2(c)16 equipment that is used for treating waste soils or sludges, including
- 7:27-8.2(c)17 equipment used for the purpose of venting a closed or operating dump or landfill

WHEN IS AN AIR PERMIT NEEDED? (MORE)

- General Catch Alls
 - >50 lb/hr of use of material (NJAC 7:27-8.2 (c) 19)
 - If digging up dirt, easily over 50 pounds if doing anything other than placing in a dump truck/roll-off for immediate removal
 - Nearly any in-situ treatment
 - >2000 gallon VOC storage (NJAC 7:27-8.2 (c)9)
- Exemption from Permitting
 - Sub-Slab Depressurization System Policy
 - <u>IF</u> the criteria is met NO TOXICS
 - https://www.nj.gov/dep/srp/guidance/vaporintrusion/vig main. pdf?version 4.1 APPENDIX K

PERMITTING OPTIONS

- Online General Permits
 - GP 008 Site Remediation Activities for Gasoline Contamination at Vehicle Fueling Stations (SVE)

Preconstruction Permits (PCP's) - Use RADIUS
Software, https://www.state.nj.us/dep/aapp/radius.html

WHAT IS IN A COMPLETE AIR PERMIT APPLICATION?

- Air Permit application prepared using RADIUS software (imports into NJEMS)
 - RADIUS HELPLINE (609) 633-8250
- Include Emission calculations for all air pollutants (VOC's, HAP's etc.) above Reporting Thresholds – CRITICAL STEP
- Any other supporting information such as manufacturers data including air control device information, facility map, site plan needed for modeling, etc.

POTENTIAL SOURCES

- Soil might be your source!
- Mixing Equipment
- Waste Piles
- Treatment Pits
- Landfills

CONTROL TECHNOLOGIES

- Carbon Absorbers should be a minimum of two in series (monitor breakthrough between two units)
- Flares Enclosed Flares Only
- Thermal Oxidizer (might call it an incinerator)
- Other

STACKS

- Stack Configuration
 - Exhaust Flow Rate
 - Temperature
 - Height
 - Discharge Direction
 - Distance to Property Line (nearest environmental receptor)
- Maybe no Stack?
 - Discharge at ground level
 - No or limited Dispersion

WHAT IS IN AN AIR PERMIT APPROVAL?

- Very specific conditions <u>READ THE PERMIT!</u>
- Monitoring and Recordkeeping
- No visible emissions (N.J.A.C. 7:27-6.2(d & e))
- No offsite odor (N.J.A.C. 7:27-5.1 and 5.2)
- Specific and enforceable limitations on emissions

TIMEFRAMES

- Approval takes time
 - Risk evaluation takes time if more than screening worksheet
 - Odor concerns <u>must</u> be addressed
 - Build in public comment period for Newark/Camden and any future EJ area

RISK ASSESSMENT (SIMPLE)

- Health Risk Screening Worksheet
 - Used for any air contaminant that is above reporting thresholds – see N.J.A.C. 7:27-17.9(b)
 - Worksheet can be found at: https://www.state.nj.us/dep/aqpp/risk.html
 - If Worksheet does not show negligible risks, a refined risk assessment must be conducted

RISK ASSESSMENT (MORE CHALLENGING)

- More refined analysis
- Evaluate the unique characteristics of the facility
- What is Needed
 - Atmospheric dispersion modeling protocol
 - Detailed plot plan
 - Protocol must be approved before modeling study is performed.
 - Stack parameters
- Follow Technical Manuals 1002/1003 guidance https://www.state.nj.us/dep/aapp/techman.html

QUESTIONS?

- Preconstruction Permit Help Line
- Major Facility Help
- General Number
- Risk Questions

609-292-6716

609-633-8248

609-292-0834

609-292-6722

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