Topics

• Clean Air Act
• Air permitting
• Permit requirements for Foxconn
• Public process for permits
• Ozone
Clean Air Act

- Set National Ambient Air Quality Standards
- Requires ambient air monitoring
- Requires states to submit plans:
  - For areas attaining standards – plan to maintain attainment
  - For areas not attaining standards – plan to get area into attainment
- Set technology-based standards to reduce emissions of criteria pollutants and hazardous air pollutants
- Requires air permitting
Air Permitting

• Clean Air Act permitting in attainment areas:
  – Prevention of Significant Deterioration (PSD)
    • Best available control technology (BACT)
    • Effects on air quality analyzed
      – Air dispersion modeling analyses
      – For pollutants with regional effects such as ozone, qualitative assessment of the impact of precursor pollutants on potential concentrations of ozone
Permit Requirements for Foxconn

- Four separate applications are being reviewed and four separate permits have been drafted.
- These projects are all considered a single major source of air pollution.
- PSD requirements apply:
  - BACT level controls are required
  - Detailed air quality analysis is required
Permit Process

- Clean Air Act provides for public participation and opportunity for review of all air pollution control permits

- Available for public review until April 16, 2018
  - Applications
  - Draft air permits
  - Analysis documents
Permit Process

- The DNR *must* issue a permit if the source, considering the draft permit requirements, meets the criteria for permit approval.

- Public comments:
  - Adequacy of technical review
  - Accuracy of emission calculations
  - Appropriateness of controls
  - Adequacy of compliance requirements
Ground level ozone is formed when volatile organic compounds (VOC) and nitrogen oxides react in the presence of sunlight.

Precursor pollutants can travel long distances from their emission points before conditions will be right to form ozone.
Ozone Monitoring

- UV light is passed through the sample cell, where it is absorbed proportionally to the amount of ozone present.
- Switching valve alternates measurement between the sample stream and a sample that has been scrubbed of ozone.
EPA’s Intended 2015 Ozone NAAQS Nonattainment Area Designations

All areas of Wisconsin

Data from EPA’s 120-day letter of 12/20/17 and DNR submittal to EPA of 4/20/17
Permitting impact of Non-Attainment

• Clean Air Act permitting in nonattainment areas:
  - Nonattainment area new source review (NNSR)
    • Lower Major Source Threshold
    • Application of Lowest achievable emission rate (LAER)
    • Offset emissions of VOCs and NOx by a ratio of 1:1.1
Permit Process

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Thank you

Public comments can be submitted through April 16, 2018. Send comments to:

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