

DIVISION OF AIR QUALITY

AIR QUALITY, ENERGY, AND SUSTAINABILITY

RISK SCREENING WORKSHEET UPDATE

INDUSTRIAL GROUP STAKEHOLDER MEETING FEBRUARY 1, 2019



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OVERVIEW

- General Risk Screening Worksheet (RSW)
- Natural Gas Risk Screening Worksheet (NG-RSW)

DRAFT GENERAL RSW

- Revised General RSW will be issued for public comment
 - ☐ Draft General RSW and Fact Sheet will be posted
 - ☐ Fact Sheet will describe all proposed changes
- Methodology for risk determination
 - ☐ Based on recently issued Technical Manuals 1002 and 1003
 - ☐ Most current air quality model (AERMOD)
 - ☐ Most current meteorological data
 - Most current toxicology factors

Development began to address additional contaminants subject to risk assessments

- □ Reporting thresholds lowered for HAPs which are emitted during natural gas combustion
 - Formaldehyde
 - □Prior RT 400 lb/yr
 - □Current RT 3.5 lb/yr
 - ☐Benzo(a)pyrene
 - ☐ Prior RT 2 lb/yr
 - ☐ Current RT 0.04 lb/yr

- Sufficient data to characterize discharge parameters for a Natural Gas Combustion Units
 - ☐ Large number of Units permitted
 - ☐ Stack flowrates generally above 1000 acfm
 - ☐ Discharge Temperature above 250° F
- □ NG-RSW will provide more realistic risk potentials
 - ☐ <u>Two orders of magnitude</u> in risk levels between existing RSW and refined modeling conducted for:
 - □ 10.5 MMBTU/hr natural gas boiler
 - ☐ Stack height range 15 to 25 feet
 - ☐ Distance to the property line of 30 feet
 - ☐ One order of magnitude in risk levels between existing RSW and refined modeling conducted for:
 - ☐ 49.8 MMBTU/hr natural gas boiler
 - ☐ Stack height range 20 to 40 feet
 - □ Distance to the property line of 30 feet

- NG-RSW will be structured to allow its usage for specific capacities which meet minimum:
 - ☐Stack heights
 - □Distances to the property line
 - ☐ Discharge temperature
 - □Stack flowrate/exit velocity

- NG-RSW will have meteorological data and terrain defaults
- ☐ Upon request, the Department will reevaluate the NG-RSW results to take into account unique site parameters
 - □Urban vs. rural terrain
 - ☐ Use data from a different meteorological station