

# PART 231 New Source Review for New and Modified Facilities (effective 2/25/21) Applicability Worksheets

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## **Acronyms Used in Part 231 Worksheets**

- 1) BAE – Baseline Actual Emissions
- 2) BACT – Best Available Control Technology
- 3) CO<sub>2</sub> – Carbon Dioxide
- 4) CO<sub>2e</sub> – Carbon Dioxide Equivalents
- 5) CO – Carbon Monoxide
- 6) CFR – Code of Federal Regulations
- 7) CEI – Creditable Emission Increase
- 8) ES – Emission Source
- 9) ERC – Emission Reduction Credits
- 10) FC – Flowchart
- 11) GHG – Greenhouse Gas
- 12) GHG<sub>e</sub> – Greenhouse Gas measured by CO<sub>2</sub> equivalents
- 13) GHG<sub>m</sub> – Greenhouse Gas measured by mass
- 14) LAER – Lowest Achievable Emission Rate
- 15) MFT – Major Facility Threshold
- 16) NA – Nonattainment
- 17) NEI – Net Emission Increase
- 18) NO<sub>x</sub> – Oxides of Nitrogen
- 19) NSR – New Source Review
- 20) OTR – Ozone Transport Region
- 21) PAE – Projected Actual Emissions
- 22) PEP – Project Emission Potential
- 23) PM – Particulate Matter
- 24) PM-10 – Particulate Matter less than 10 micrometers
- 25) PM-2.5 – Particulate Matter less than 2.5 micrometers
- 26) PSD – Prevention of Significant Deterioration
- 27) PTE – Potential to Emit
- 28) SNEIT – Significant Net Emission Increase Threshold
- 29) SO<sub>2</sub> – Sulfur Dioxide
- 30) SPT – Significant Project Threshold
- 31) TPY – Tons per Year
- 32) VOC – Volatile Organic Compounds
- 33) WKS – Worksheet**

## **Preface**

There are four main scenarios on which the following worksheets were based. These scenarios are presented below along with key points.

### ❖ Nonattainment NSR (Subparts 231-5 & 6)

- New major facility or modification to an existing non-major facility (Subpart 231-5)
  - Nonattainment contaminants subject to Part 231 are only those with a potential to emit that exceeds the applicable major facility threshold
  - The facility cannot net out of Part 231 since netting is only allowed at existing major facilities
- Existing major facility (Subpart 231-6)
  - The facility is considered to be major for all nonattainment contaminants for that location and the project's emissions are compared to the applicable significant project thresholds

### ❖ Attainment (PSD) NSR (Subparts 231-7 & 8)

- New major facility or modification to an existing non-major facility (Subpart 231-7)
  - If emissions of one PSD contaminant are greater than the applicable major facility threshold then the facility is considered major for all PSD contaminants and the project's emissions of all other applicable PSD contaminant(s) are compared to the applicable significant project threshold(s)
- Existing major facility (Subpart 231-8)
  - The facility is considered to be major for all PSD contaminants and the project's emissions are compared to the applicable significant project thresholds

**Subparts 231-5 & 6 NA Area NSR Applicability**

**NYSDEC-DAR**

**WKS-1 (SEE FC-1)**

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<b>SUBPARTS 231-5 &amp; 6, FACILITY TYPE/APPLICABILITY DETERMINATION WORKSHEET</b>			
FACILITY NAME: _____ ADDRESS: _____ APPLICATION DEC ID# _____ COUNTY: _____ PROPOSED PROJECT DESCRIPTION: _____  EMISSION SOURCE ID#s _____, _____, _____, _____, _____, _____, _____			
PREPARER'S NAME _____		TITLE _____	
SIGNATURE _____		DATE ____/____/____	
REVIEWER'S NAME _____		REGION # ____ DATE ____/____/____	
	<b>Y</b>	<b>N</b>	<b>ACTION</b>
1. NA contaminant review. For PSD applicability go to WKS-14	<input type="checkbox"/>	<input type="checkbox"/>	Go to 2
2. Identify NA contaminants based on facility location (See NOTE #1 and maps in Appendix B): VOC ____ NOx ____ PM-10 ____			Go to 3
3. Is a new facility with emissions of any NA contaminant being proposed?	<input type="checkbox"/>	<input type="checkbox"/>	YES – Go to 4  NO – Go to 5
4. Follow each applicable path	<input type="checkbox"/>	<input type="checkbox"/>	Ozone NA – go to WKS-2  PM 10 – go to WKS-3
5. Is a modification, see NOTE #2, being proposed to an existing facility?			<input type="checkbox"/>
COMMENTS:			
NOTE #1 - All of New York State is within the Ozone Transport Region as designated by the Clean Air Act. Therefore, VOC and NOx are treated as nonattainment contaminants statewide as precursors to ozone.			
NOTE #2 - <i>Modification 231-4.1(b)(30).</i> Any physical change in, or change in the method of operation of, a facility which results in a level of annual emissions (not including any emission reductions) in excess of the Baseline Actual Emissions of any Regulated NSR Contaminant emitted by such facility or which results in the emission of any Regulated NSR Contaminant not previously emitted. A modification shall not include the following:  <div style="margin-left: 40px;">           (i) routine maintenance, repair, or replacement as defined in 6 NYCRR Part 200.             (ii) use of an alternative fuel or raw material by reason of an order under sections 2(a) and (b) of the Energy Supply and Environmental Coordination Act of 1974 (or any superseding legislation) or by reason of a natural gas curtailment plan pursuant to the Federal Power Act;             (iii) use of an alternative fuel by reason of an order or rule under section 125 of the Clean Air Act;             (iv) use of an alternative fuel at a steam generating unit to the extent that the fuel is generated from municipal solid waste;             (v) use of an alternative fuel or raw material by a facility which:         </div>			

(continued)

(a) the facility was capable of accommodating before January 6, 1975, unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975 pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR Part 51 Subpart I or 40 CFR 51.166; or

(b) the facility is approved to use, pursuant to this Part, or which is included in a permit issued pursuant to 40 CFR 52.21.

(vi) an increase in the hours of operation or in the production rate, unless such change would be prohibited under any permit condition which was established after January 6, 1975, pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR Part 51 Subpart I or 40 CFR 51.166;

(vii) any change in ownership at a facility.

NOTE #3 -

Not subject to Subparts 231-5 or 6, however, project may be subject to the notification requirements of subdivision 231-3.5(c) if the applicant determines that the proposed project does not constitute a *modification* because all the project emission increases are attributable to independent factors in accordance with clause 231-4.1(b)(42)(i)(c).

**SUBPART 231-5, PROPOSED NEW FACILITY IN AN OZONE NA AREA OR ATTAINMENT PORTION OF THE OZONE TRANSPORT REGION (VOC & NOx) – APPLICABILITY WORKSHEET**

FACILITY NAME: \_\_\_\_\_  
 APPLICATION DEC ID# \_\_\_\_\_

	Y	N	ACTION
1. Is proposed facility located in Severe Ozone NA area? (See Appendix B-1)			YES - Go to 2  NO - Go to 3
2. For VOC or NOx, is facility PTE $\geq$ MFT? (Use WKS-11 for calculating PTE) VOC (PTE) _____ tpy $\geq$ 25 tpy? NOx (PTE) _____ tpy $\geq$ 25 tpy?			YES - See NOTE #1, go to 4  NO - See NOTE #2
3. Proposed facility is located in Marginal/Moderate ozone NA areas or in the attainment portion of the OTR. For VOC or NOx, is the facility PTE $\geq$ MFT? (Use WKS-11 for calculating PTE) VOC (PTE) _____ tpy $\geq$ 50 tpy? NOx (PTE) _____ tpy $\geq$ 100 tpy?			YES - See NOTE #3, go to 4  NO - See NOTE #2
4. Has the applicant complied with all of the following permit requirements (Re: section 231-5.2): a. Compliance certification (Re: subdivision 231-5.2(a)). b. Submittal of a benefit analysis (Re: subdivision 231-5.2(b)). c. Submittal of a LAER demonstration (Re: subdivision 231-5.2(c) and section 231-5.4). d. Submittal of an air quality impact evaluation, if required (Re: subdivision 231-5.2(d)). e. Identification of emission sources providing emission offsets and submittal of copies of modified permits for the emission sources (Re: subdivision 231-5.2(d)).			YES - See NOTE #4  NO - See NOTE #5
NOTE #1 - Major facility subject to Subpart 231-5 for each NA contaminant for which facility PTE $\geq$ MFT.  LAER control technology required for each emission source which is part of the proposed major facility and which emits any such NA contaminant.  Emission offset <sup>†</sup> required for the entire amount of the facility PTE times offset ratio for each such NA contaminant: For VOC & NOx: 1.3:1 offset ratio			
NOTE #2 - Non-major facility, not subject to Subpart 231-5 for VOC or NOx.			
NOTE #3 - Major facility subject to Subpart 231-5 for each NA contaminant for which facility PTE $\geq$ MFT.  LAER control technology required for each emission source which is part of the proposed major facility and which emits any such NA contaminant.  Emission offset <sup>†</sup> required for the entire amount of the facility PTE times offset ratio for each such NA contaminant. For VOC & NOx: 1.15:1 offset ratio			
NOTE #4 - Detailed NA review may proceed.			
NOTE #5 - Notice of incomplete application should be sent.			

<sup>†</sup>An emission offset may be obtained from another NA area of equal or higher classification if emissions from such other area contribute to a violation of the National Ambient Air Quality Standard for the NA contaminant in the NA area of the proposed facility (Re: section 231-5.5)

**SUBPART 231-5, PROPOSED NEW FACILITY IN A PM-10 NA AREA – APPLICABILITY WORKSHEET**

FACILITY NAME: \_\_\_\_\_  
 APPLICATION DEC ID# \_\_\_\_\_

	Y	N	ACTION
1. For PM-10, is facility PTE $\geq$ MFT? (Use WKS-11 for calculating PTE) PM-10 (PTE) _____ tpy $\geq$ 100 tpy?			YES - See NOTE #1, go to 2  NO - See NOTE #2
2. Has the applicant complied with all of the following permit requirements (Re: section 231-5.2): a. Compliance certification (Re: subdivision 231-5.2(a)). b. Submittal of a benefit analysis (Re: subdivision 231-5.2(b)). c. Submittal of a LAER demonstration (Re: subdivision 231-5.2(c) and section 231-5.4). d. Submittal of an air quality impact evaluation, if required (Re: subdivision 231-5.2(e)). e. Identification of emission sources providing emission offsets and submittal of copies of modified permits for the emission sources (Re: subdivision 231-5.2(e)).			YES - See NOTE #3  NO - See NOTE #4
NOTE #1 - Major facility subject to Subpart 231-5 for PM-10.  LAER control technology required for each emission source which is part of the proposed major facility and which emits PM-10.  Emission offset <sup>†</sup> required for the entire amount of the facility PTE of PM-10 at a 1:1 offset ratio and a net air quality benefit analysis			
NOTE #2 - Non-major facility, not subject to Subpart 231-5.			
NOTE #3 - Detailed NA review may proceed.			
NOTE #4 - Notice of incomplete application should be sent.			

<sup>†</sup>An emission offset may be obtained from another NA area of equal or higher classification if emissions from such other area contribute to a violation of the National Ambient Air Quality Standard for the NA contaminant in the NA area of the proposed facility (Re: section 231-5.5)



SUBPARTS 231-5 & 6, EXISTING FACILITY – APPLICABILITY WORKSHEET			
FACILITY NAME: _____			
APPLICATION DEC ID# _____			
	Y	N	ACTION
1. Is a modification being proposed? (Re: paragraph 231-4.1(b)(30) and NOTE #1 on WKS-1)			YES - Go to 2 NO - see NOTE #1
2. Identify NA contaminant(s) based on existing facility location (See maps in Appendix B). Ozone Precursors: VOC _____ NOx _____ PM-10 _____			Go to 3
3. For any identified NA contaminant, is the existing facility's PTE $\geq$ MFT? * (Use WKS-11 for calculating PTE) Severe Ozone NA Area: VOC (PTE) _____ tpy $\geq$ 25 tpy? NOx (PTE) _____ tpy $\geq$ 25 tpy? Marginal/Moderate Ozone NA or attainment portion of the OTR: VOC (PTE) _____ tpy $\geq$ 50 tpy? NOx (PTE) _____ tpy $\geq$ 100 tpy? PM-10 NA Area: PM-10 (PTE) _____ tpy $\geq$ 100 tpy?			YES - Go to 4 NO - Go to 5
4. Major facility, follow each applicable path.			Severe Ozone NA – WKS-5A  PM-10 NA - WKS-6  Marginal/Moderate Ozone NA or attainment portion of the OTR - WKS-7
5. Non-major facility, follow each applicable path			Severe Ozone NA – WKS-8  PM-10 NA - WKS-9  Marginal/Moderate Ozone NA or attainment portion of the OTR - WKS-10
NOTE #1 - Not subject to Subpart 231-5 or 6 but may be subject to subdivision 231-3.5(c).			

\*For a facility in an area that is NA for multiple contaminants, if the facility PTE is greater than or equal to the MFT for one NA contaminant it is considered to be major for all applicable NA contaminants

<b>SUBPART 231-6, EXISTING MAJOR FACILITY MODIFICATION – SEVERE OZONE NA AREA – APPLICABILITY WORKSHEET</b>			
FACILITY NAME _____			
APPLICATION DEC ID# _____			
EMISSION SOURCE. ID#S _____, _____, _____, _____, _____, _____, _____			
	Y	N	ACTION
1. Major facility. For VOC or NO <sub>x</sub> , is PEP ≥ SPT?* (Use WKS-12 for calculating PEP) VOC (PEP) _____ tpy ≥ 2.5 tpy? NO <sub>x</sub> (PEP) _____ tpy ≥ 2.5 tpy?			YES - Go to 2  NO - See NOTE #1
2. Has a NEI analysis been provided by the applicant? (Re: paragraph 231-4.1(b)(31))			YES - Go to 3  NO - See NOTE #2
3. For VOC or NO <sub>x</sub> , is NEI > SNEIT?* (Use WKS-13A & B for calculating NEI) VOC (NEI) _____ tpy > 25 tpy? NO <sub>x</sub> (NEI) _____ tpy > 25 tpy?			YES - See NOTE #3, go to 4  NO - See NOTE #4
4. Has the applicant complied with all of the following permit requirements (Re: section 231-6.3): a. Compliance certification (Re: subdivision 231-6.3(a)). b. Submittal of a benefit analysis (Re: subdivision 231-6.3(b)). c. Submittal of a LAER demonstration, if required. (Re: subdivision 231-6.3(c) and section 231-6.5) d. Submittal of an air quality impact evaluation, if required. (Re: subdivision 231-6.3(d)) e. Identification of emission sources providing internal offset or emission offset and submittal of copies of modified permits for the emission sources (Re: subdivision 231-6.3(d)).			YES - See NOTE #5  NO - See NOTE #2
NOTE #1 - Not subject to Subpart 231-6 review, however, must comply with applicable section 231-11.2 reasonable possibility requirements for insignificant modifications.			
NOTE #2 - Notice of incomplete application should be sent.			
NOTE #3 - Modification subject to Subpart 231-6 for each NA contaminant for which the modification's NEI > SNEIT.  Control technology and emission offset <sup>†</sup> required as provided in special rules (see WKS-5B)			
NOTE #4 - Must comply with applicable sections 231-6.2 and 231-11.1 Netting requirements.			
NOTE #5 - Detailed NA review may proceed.			

\* Each NA contaminant is evaluated independently and can result in the need to follow the "yes" path for one and the "no" path for another

<sup>†</sup> An offset may be obtained from another NA area of equal or higher classification if emissions from such other area contribute to a violation of the National Ambient Air Quality Standard for the NA contaminant in the NA area of the modification (Re: section 231-6.6).

**SUBPART 231-6, SPECIAL RULES FOR SEVERE OZONE NA AREA (VOC & NO<sub>x</sub>) – APPLICABILITY WORKSHEET (Re: subdivision 231-6.1(d))**

FACILITY NAME \_\_\_\_\_  
 APPLICATION DEC ID# \_\_\_\_\_  
 EMISSION SOURCE ID#S \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

	Y	N	ACTION
1. Continued from WKS-5A NOTE #3, for a modification located in Severe Ozone NA area and where NEI > SNEIT (25 tpy) for VOC or NO <sub>x</sub> , as applicable.			Go to 2
2. Is existing Facility PTE ≥ 100 tpy? (Use WKS-11 for calculating Facility PTE) VOC (PTE) _____ tpy ≥ 100 tpy? NO <sub>x</sub> (PTE) _____ tpy ≥ 100 tpy?			YES - Go to 3 NO - Go to 4
3. Modification subject to Subpart 231-6 for VOC or NO <sub>x</sub> , as applicable. Has applicant proposed to internally offset the PEP of VOC or NO <sub>x</sub> at 1.3:1?			YES - See NOTE #1 NO - See NOTE #2
4. Modification subject to Subpart 231-6 for VOC or NO <sub>x</sub> , as applicable. Has applicant proposed to internally offset the PEP of VOC or NO <sub>x</sub> at 1.3:1?			YES - See NOTE #3 NO - See NOTE #4
NOTE #1 - The modification is exempt from the requirement for application of LAER control technology and an emission offset but is fully subject to all other applicable Part 231 requirements. Go to 4 in WKS-5A.			
NOTE #2 - Emission offset required for the PEP of VOC or NO <sub>x</sub> , as applicable, at a ratio of at least 1.3:1 and LAER control technology required for each emission source which is part of the modification. Go to 4 in WKS-5A.			
NOTE #3 - The proposed emission increase shall not be considered as a modification for purposes of requiring an NSR permit under Part 231, however, all applicable permitting requirements of Part 201 shall apply. Also, all applicable requirements of Subpart 231-10 pertaining to ERCs that will be used for internal offset purposes shall apply. Go to 4 in WKS-5A.			
NOTE #4 - Emission offset required for the PEP of VOC or NO <sub>x</sub> , as applicable, at a ratio of at least 1.3:1 and BACT shall be substituted for LAER control technology required for each emission source which is part of the modification. Go to 4 in WKS-5A.			

**SUBPART 231-6, EXISTING MAJOR FACILITY MODIFICATION – PM-10 NA AREA – APPLICABILITY WORKSHEET**

FACILITY NAME \_\_\_\_\_  
 APPLICATION DEC ID# \_\_\_\_\_  
 EMISSION SOURCE. ID#S \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

	Y	N	ACTION
1. Major facility. For PM-10, is PEP $\geq$ SPT? (Use WKS-12 for calculating PEP) PM-10 (PEP) _____ tpy $\geq$ 15 tpy?			YES - Go to 2  NO - See NOTE #1
2. Has a NEI analysis been provided by the applicant? (Re: paragraph 231-4.1(b)(31))			YES - Go to 3  NO - See NOTE #2
3. For PM-10, is NEI $\geq$ SNEIT? (Use WKS-13A & B for calculating NEI) PM-10 (NEI) _____ tpy $\geq$ 15 tpy?			YES - See NOTE #3, go to 4  NO - See NOTE #4
4. Has the applicant complied with all of the following permit requirements (Re: section 231-6.3): a. Compliance certification (Re: subdivision 231-6.3(a)). b. Submittal of a benefit analysis (Re: subdivision 231-6.3(b)). c. Submittal of a LAER demonstration, if required. (Re: subdivision 231-6.3(c) and section 231-6.5) d. Submittal of an air quality impact evaluation, if required. (Re: subdivision 231-6.3(e)) e. Identification of emission sources providing emission offsets and submittal of copies of modified permits for the emission sources (Re: subdivision 231-6.3(e)).			YES - See NOTE #5  NO - See NOTE #2
NOTE #1 - Not subject to Subpart 231-6 review, however, must comply with applicable section 231-11.2 reasonable possibility requirements for insignificant modifications.			
NOTE #2 - Notice of incomplete application should be sent.			
NOTE #3 - Modification subject to Subpart 231-6.  LAER control technology required for each emission source which is part of the modification and which emits PM-10.  Emission offset <sup>†</sup> required for the entire amount of the PEP. For PM-10: 1:1 offset ratio and a net air quality benefit analysis (modeling) required (Re: subdivision 231-6.6(d))			
NOTE #4 - Must comply with applicable sections 231-6.2 and 231-11.1 Netting requirements.			
NOTE #5 - Detailed NA review may proceed.			

<sup>†</sup> An offset may be obtained from another NA area of equal or higher classification if emissions from such other area contribute to a violation of the National Ambient Air Quality Standard for the NA contaminant in the NA area of the modification (Re: Section 231-6.6).

**SUBPART 231-6, EXISTING MAJOR FACILITY MODIFICATION – MARGINAL/MODERATE OZONE NA AREAS OR ATTAINMENT PORTION OF THE OZONE TRANSPORT REGION – APPLICABILITY WORKSHEET**

FACILITY NAME \_\_\_\_\_  
 APPLICATION DEC ID# \_\_\_\_\_  
 EMISSION SOURCE. ID#S \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

	Y	N	ACTION
1. Major facility. For VOC or NO <sub>x</sub> , is PEP ≥ SPT?* (Use WKS-12 for calculating PEP) VOC (PEP) _____ tpy ≥ 40 tpy? NO <sub>x</sub> (PEP) _____ tpy ≥ 40 tpy?			YES - Go to 2  NO - See NOTE #1
2. Has a NEI analysis been provided by the applicant? (Re: paragraph 231-4.1(b)(31))			YES - Go to 3  NO - See NOTE #2
3. For VOC or NO <sub>x</sub> , is NEI > SNEIT?* (Use WKS-13A & B for calculating NEI) VOC (NEI) _____ tpy > 40 tpy? NO <sub>x</sub> (NEI) _____ tpy > 40 tpy?			YES - See NOTE #3, go to 4  NO - See NOTE #4
4. Has the applicant complied with all of the following permit requirements (Re: section 231-6.3): a. Compliance certification (Re: subdivision 231-6.3(a)). b. Submittal of a benefit analysis (Re: subdivision 231-6.3(b)). c. Submittal of a LAER demonstration, if required. (Re: subdivision 231-6.3(c) and section 231-6.5) d. Submittal of an air quality impact evaluation, if required. (Re: subdivision 231-6.3(d)) e. Identification of emission sources providing emission offsets and submittal of copies of modified permits for the emission sources (Re: subdivision 231-6.3(d)).			YES - See NOTE #5  NO - See NOTE #2
NOTE #1 - Not subject to Subpart 231-6 review, however, must comply with applicable section 231-11.2 reasonable possibility requirements for insignificant modifications.			
NOTE #2 - Notice of incomplete application should be sent.			
NOTE #3 - Modification subject to Subpart 231-6 for each NA contaminant for which the modification's NEI ≥ SNEIT.  LAER control technology required for each emission source which is part of the modification and which emits any such NA contaminant.  Emission offset <sup>†</sup> at a ratio of 1.15:1 required for the entire amount of the PEP for each such NA contaminant.			
NOTE #4 - Must comply with applicable sections 231-6.2 and 231-11.1 Netting requirements.			
NOTE #5 - Detailed NA review may proceed.			

\* Each NA contaminant is evaluated independently and can result in the need to follow the "yes" path for one and the "no" path for another

<sup>†</sup> An offset may be obtained from another NA area of equal or higher classification if emissions from such other area contribute to a violation of the National Ambient Air Quality Standard for the NA contaminant in the NA area of the modification (Re: section 231-6.6).

<b>SUBPART 231-5, EXISTING NON-MAJOR FACILITY MODIFICATION – SEVERE OZONE NA AREA – APPLICABILITY WORKSHEET</b>			
FACILITY NAME _____			
APPLICATION DEC ID# _____			
EMISSION SOURCE. ID#S _____, _____, _____, _____, _____, _____, _____			
	Y	N	ACTION
1. Non-major facility. For VOC or NOx, is PEP ≥ MFT?* (Use WKS-12 for calculating PEP) VOC (PEP) _____ tpy ≥ 25 tpy? NOx (PEP) _____ tpy ≥ 25 tpy?			YES - See NOTE #1, go to 2  NO - See NOTE #2
2. Has the applicant complied with all of the following permit requirements (Re: section 231-5.2): a. Compliance certification (Re: subdivision 231-5.2(a)). b. Submittal of a benefit analysis (Re: subdivision 231-5.2(b)). c. Submittal of a LAER demonstration, if required. (Re: subdivision 231-5.2(c) and section 231-5.4) d. Submittal of an air quality impact evaluation, if required. (Re: subdivision 231-5.2(d)) e. Identification of emission sources providing emission offsets and submittal of copies of modified permits for the emission sources (Re: subdivision 231-5.2(d)).			YES - See NOTE #3  NO - See NOTE #4
NOTE #1 - Modification subject to Subpart 231-5 for each NA contaminant for which the modification's PEP ≥ MFT.  LAER control technology required for each emission source which is part of the modification and which emits any such NA contaminant.  Emission offset <sup>†</sup> at a ratio of 1.3:1 required for the entire amount of the PEP for each such NA contaminant.			
NOTE #2 - Not subject to Subpart 231-5 review, however, if facility PTE after modification exceeds applicable MFT, a permit with the new PTE limit is required (Re: subdivision 231-5.1(b)).			
NOTE #3 - Detailed NA review may proceed.			
NOTE #4 - Notice of incomplete application should be sent.			

\* Each NA contaminant is evaluated independently and can result in the need to follow the "yes" path for one and the "no" path for another

<sup>†</sup> An offset may be obtained from another NA area of equal or higher classification if emissions from such other area contribute to a violation of the National Ambient Air Quality Standard for the NA contaminant in the NA area of the modification (Re: section 231-5.5).

<b>SUBPART 231-5, EXISTING NON-MAJOR FACILITY MODIFICATION – PM-10 NA AREA – APPLICABILITY WORKSHEET</b>			
FACILITY NAME _____ APPLICATION DEC ID# _____ EMISSION SOURCE. ID#S _____, _____, _____, _____, _____, _____, _____			
	<b>Y</b>	<b>N</b>	<b>ACTION</b>
1. Non-major facility. For PM-10, is PEP ≥ MFT? (Use WKS-12 for calculating PEP) PM-10 (PEP) _____ tpy ≥ 100 tpy?			YES - See NOTE #1, go to 2  NO - See NOTE #2
2. Has the applicant complied with all of the following permit requirements (Re: section 231-5.2): a. Compliance certification (Re: subdivision 231-5.2(a)). b. Submittal of a benefit analysis (Re: subdivision 231-5.2(b)). c. Submittal of a LAER demonstration, if required. (Re: subdivision 231-5.2(c) and section 231-5.4) d. Submittal of an air quality impact evaluation, if required. (Re: subdivision 231-5.2(d)) e. Identification of emission sources providing emission offsets and submittal of copies of modified permits for the emission sources (Re: subdivision 231-5.2(d)).			YES - See NOTE #3  NO - See NOTE #4
<b>NOTE #1 -</b> Modification subject to Subpart 231-5.  LAER control technology required for each emission source which is part of the modification and which emits PM-10.  Emission offset <sup>†</sup> required for the entire amount of the PEP. For PM-10: 1:1 offset ratio and a net air quality benefit analysis (modeling) required (Re: subdivision 231-5.5(d))			
<b>NOTE #2 -</b> Not subject to Subpart 231-5 review, however, if Facility PTE after modification exceeds applicable MFT, a permit with the new PTE limit is required (Re: subdivision 231-5.1(b)).			
<b>NOTE #3 -</b> Detailed NA review may proceed.			
<b>NOTE #4 -</b> Notice of incomplete application should be sent.			

<sup>†</sup> An offset may be obtained from another NA area of equal or higher classification if emissions from such other area contribute to a violation of the National Ambient Air Quality Standard for the NA contaminant in the NA area of the modification (Re: section 231-5.5).

SUBPART 231-5, EXISTING NON-MAJOR FACILITY MODIFICATION – MARGINAL/MODERATE OZONE NA AREAS OR ATTAINMENT PORTION OF THE OZONE TRANSPORT REGION – APPLICABILITY WORKSHEET			
FACILITY NAME _____			
APPLICATION DEC ID# _____			
EMISSION SOURCE ID#S _____, _____, _____, _____, _____, _____, _____			
	Y	N	ACTION
1. Non-major facility. For VOC or NOx, is PEP ≥ MFT? * (Use WKS-12 for calculating PEP) VOC (PEP) _____ tpy ≥ 50 tpy? NOx (PEP) _____ tpy ≥ 100 tpy?			YES - See NOTE #1, go to 2  NO - See NOTE #2
2. Has the applicant complied with all of the following permit requirements:(Re: section 231-5.2). a. Compliance certification (Re: subdivision 231-5.2(a)). b. Submittal of a benefit analysis (Re: subdivision 231-5.2(b)). c. Submittal of a LAER demonstration. (Re: subdivision 231-5.2(c) and section 231-5.4) d. Submittal of an air quality impact evaluation, if required. (Re: subdivision 231-5.2(d)) e. Identification of emission sources providing emission offsets and submittal of copies of modified permits for the emission sources (Re: subdivision 231-5.2(d)).			YES - See NOTE #3  NO - See NOTE #4
NOTE #1 - Modification subject to Subpart 231-5 for each NA contaminant for which the modification's PEP ≥ MFT.  LAER control technology required for each emission source which is part of the modification and which emits any such NA contaminant.  Emission offset <sup>†</sup> required for the entire amount of the PEP times offset ratio for each such NA contaminant.  VOC & NOx: 1.15:1 offset ratio.			
NOTE #2 - Not subject to Subpart 231-5 review, however, if facility PTE after modification exceeds applicable MFT, a permit with the new PTE limit is required (Re: subdivision 231-5.1(b)).			
NOTE #3 - Detailed nonattainment review may proceed.			
NOTE #4 - Notice of incomplete application should be sent.			

\* Each NA contaminant is evaluated independently and can result in the need to follow the "yes" path for one and the "no" path for another

<sup>†</sup> An offset may be obtained from another NA area of equal or higher classification if emissions from such other area contribute to a violation of the National Ambient Air Quality Standard for the NA contaminant in the NA area of the modification (Re: section 231-5.5).



**SUBPARTS 231-5 & 6, FACILITY POTENTIAL TO EMIT CALCULATION WORKSHEET**

FACILITY NAME: \_\_\_\_\_  
 APPLICATION DEC ID# \_\_\_\_\_

**NOTE:** Facility PTE is -

A. For a proposed new facility - Sum of the PTE of each proposed emission source.

B. For an existing facility - Sum of the PTE of each existing emission source.

**NOTE:** *PTE* - The maximum capacity of an air contamination source to emit any regulated air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of the emission source to emit a regulated air pollutant, including air pollution control equipment and/or restrictions on the hours of operation, or on the type or amount of material combusted, stored, or processed, shall be treated as a part of the design if the limitation is enforceable by the department and the administrator. Fugitive emissions, to the extent that they are quantifiable, are included in determining the potential to emit where required by an applicable requirement. Secondary emissions (as defined in Part 231-4 of this Title) are not to be included when calculating an emission source's potential to emit. For emergency power generating stationary internal combustion engines, the potential to emit will be based on a maximum of 500 hours of operation per year per engine unless a more restrictive limitation exists in a permit or registration. (Re: subdivision 200.1(b))

**Nonattainment contaminant(s):** (check)      VOC      NOx      PM-10

**Facility Emission Potential Calculation**

EMISSION SOURCE ID#	PTE of VOC (tpy)	PTE of NOx (tpy)	PTE of PM-10 (tpy)
Facility Potential To Emit (tpy) = (Sum of the potential to emit of each emission source)			

<b>SUBPARTS 231-5 &amp; 6, PROJECT EMISSION POTENTIAL CALCULATION WORKSHEET</b>			
FACILITY NAME: _____ APPLICATION DEC ID# _____ EMISSION SOURCE ID#s _____, _____, _____, _____, _____, _____, _____			
	Y	N	ACTION
1. Does the proposed modification involve addition of one or more new emission sources?			YES - Go to 2 NO - Go to 3
2. For each new emission source, what is the PTE, see NOTE #1, in tpy of each identified NA contaminant? ES ID# _____ VOC = _____ NOx = _____ PM-10 = _____			Go to 4
3. Therefore, the modification is of one or more existing emission sources.			Go to 5
4. Does the modification involve one or more existing emission sources?			YES - Go to 5 NO - Go to 7
5. For each existing emission source undergoing modification, what is the BAE, see NOTE # 2, in tpy of each NA contaminant? ES ID# _____ VOC = _____ NOx = _____ PM-10 = _____			Go to 6
6. For each existing emission source undergoing modification, what is the PAE, see NOTE #3, or the PTE, see NOTE #1, (if used in lieu of PAE) in tpy of each NA contaminant after modification? ES ID# _____ VOC = _____ NOx = _____ PM-10 = _____ Please indicate whether the numbers are PTE or PAE: PTE <input type="checkbox"/> PAE <input type="checkbox"/>			Go to 7
7. <b>Project Emission Potential of VOC</b> = Sum of: a. Row 2 for VOC from each new emission source _____ + _____ + _____ + _____ + _____ + _____ + _____ = _____ tpy; <b>and</b> b. Where Row 6 > Row 5: the difference between future and baseline emissions (Row 6 - Row 5) for VOC from each modification of an existing emission source Where Row 6 ≤ Row 5: enter a zero for the VOC increase from that emission source _____ + _____ + _____ + _____ + _____ + _____ + _____ = _____ tpy  PEP of VOC = a + b = _____ tpy			

(continued)

**Project Emission Potential of NO<sub>x</sub> = Sum of:**

- a. Row 2 for NO
- <sub>x</sub>
- from each new emission source

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ tpy;

and

- b. Where Row 6 > Row 5: the difference between future and baseline emissions (Row 6 - Row 5) for NO
- <sub>x</sub>
- from each modification of an existing emission source

Where Row 6 ≤ Row 5: enter a zero for the NO<sub>x</sub> increase from that emission source

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ tpy

PEP of NO<sub>x</sub> = a + b = \_\_\_\_\_ tpy**Project Emission Potential of PM-10 = Sum of:**

- a. Row 2 for PM-10 from each new emission source

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ tpy;

and

- b. Where Row 6 > Row 5: the difference between future and baseline emissions (Row 6 - Row 5) for PM-10 from each modification of an existing emission source

Where Row 6 ≤ Row 5: enter a zero for the PM-10 increase from that emission source

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ tpy

PEP of PM-10 = a + b = \_\_\_\_\_ tpy

NOTE #1 - *Potential to emit 200.1(b)*. The maximum capacity of an air contamination source to emit any regulated air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of the emission source to emit a regulated air pollutant, including air pollution control equipment and/or restrictions on the hours of operation, or on the type or amount of material combusted, stored, or processed, shall be treated as a part of the design if the limitation is enforceable by the department and the administrator. Fugitive emissions, to the extent that they are quantifiable, are included in determining the potential to emit where required by an applicable requirement. Secondary emissions (as defined in Part 231-4 of this Title) are not to be included when calculating an emission source's potential to emit. For emergency power generating stationary internal combustion engines, the potential to emit will be based on a maximum of 500 hours of operation per year per engine unless a more restrictive limitation exists in a permit or registration.

NOTE #2 - *Baseline actual emissions 231-4.1(b)(4)*. The annual rate of emissions of a regulated NSR contaminant from an emission source determined as follows:

(i) The average rate (as defined in clauses a, b, c, d, and e below), in tpy, at which an emission source physically emitted the contaminant during its baseline period, determined by using the source's actual operating hours, production rates, and types of materials processed, stored, or combusted during the selected baseline period.

(a) The average rate includes fugitive emissions to the extent quantifiable if the facility belongs to one of the source categories listed in Part 201-2.1(b)(21)(iii) of this Title, and emissions associated with startups, shutdowns, and malfunctions.

(b) The average rate must be adjusted downward to exclude any non-compliant emissions that occurred while the emission source was operating above any applicable emission limitation.

(continued)

(c) Except for electric utility steam generating units, the average rate must be adjusted downward to exclude any emissions that exceeded an emission limitation with which the emission source must currently comply, had such emission source been required to comply with such limitations during the baseline period. However, if an emission limitation is part of a maximum achievable control technology standard that the administrator proposed or promulgated under 40 CFR Part 63, the baseline actual emissions rate need only be adjusted if the State has taken credit for such emissions reductions in an attainment demonstration or maintenance plan consistent with the requirements of 40 CFR 51.165(a)(3)(ii)(G). For the purposes of a creditable emission increase or emission reduction credit used for netting, currently means at the time that the increase or reduction actually occurred.

(d) For a regulated NSR contaminant, when a project involves multiple emissions sources, one baseline period must be used to determine the baseline actual emissions of the emission sources being modified. A different baseline period cannot be used for each regulated NSR contaminant.

(e) For multiple emission sources shutting down or taking limits not in conjunction with a modification, a different baseline period may be used for each emission source.

(ii) The applicant must use a reliable basis for quantifying the baseline actual emissions. Continuous emissions monitoring (CEM) data or stack test data approved by the department must be used if the facility is required to generate such data. Facilities required to submit annual emission statements in accordance with Subpart 202-2 of this Title must use the same method for determining baseline actual emissions as was used for the approved emission statements for the time period encompassing the baseline period, unless CEM or stack test data is available. If such data is not available, acceptable bases for quantifying baseline actual emissions include, but are not limited to, EPA's AP-42 emission factors, and fuel and solvent purchase records, with department approval.

NOTE #3 -

*Projected actual emissions 231-4.1(b)(42).* The maximum annual rate, in tpy, at which an existing emission source is projected to emit a regulated NSR contaminant in any one of the five years (12-month period) following the date the source commences operation after a modification, or in any one of the 10 years following that date if the project involves increasing the emission source's design capacity or its potential to emit that regulated NSR contaminant and full utilization of the emission source would result in exceeding the applicable significant project threshold in Tables 3, 4 or 6 of Subpart 231-13 of this Part or a significant net emissions increase at the major facility. Projected actual emissions are calculated only for existing major facilities.

(i) In determining the projected actual emissions as defined in this Section (before beginning actual construction), the owner or operator of the major facility:

(a) must consider all relevant information, including but not limited to, historical operational data, the facility's own representations, the facility's expected business activity and the facility's highest projections of business activity, the facility's filings with the State or federal regulatory authorities, and compliance plans under the approved State Implementation Plan; and

(b) must include fugitive emissions to the extent quantifiable if the facility belongs to one of the source categories listed in Part 201-2.1(b)(21)(iii) of this Title, and emissions associated with startups and shutdowns; and

(c) may exclude, in calculating any increase in emissions that results from the particular project, that portion of the emission source's emissions following the project that the existing emission source could have accommodated during the consecutive 24 month period used to establish the baseline actual emissions and that are also unrelated to the particular project.

(ii) In lieu of using the method set out in subparagraph (i) of this paragraph, the owner or operator of the facility may elect to use the potential to emit of the emission source(s), in tpy.

**SUBPART 231-6, NET EMISSION INCREASE ANALYSIS WORKSHEET** (Re: paragraph 231-4.1(b)(31))

FACILITY NAME: \_\_\_\_\_  
 APPLICATION DEC ID# \_\_\_\_\_  
 EMISSION SOURCE ID#s \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

**NOTE:** A net emission increase analysis is required for each nonattainment contaminant for which the PEP equals or exceeds the SPT.

**Nonattainment contaminant(s)** for which PEP ≥ SPT (check one):      VOC      NOx      PM-10

**Contemporaneous Period:** (Re: FC-12, FC-13, and/or FC-14 and paragraph 231-4.1(b)(14))

Marginal/Moderate Ozone Nonattainment Areas and Attainment Portion of the Ozone Transport Region for VOC or NOx; and PM-10 Nonattainment Area - The period beginning five years prior to the scheduled commence construction date of the new or modified emission source, and ending with the scheduled commence operation date. These dates must be proposed by an applicant in a permit application.

Severe Ozone Nonattainment Area - for emissions of VOC or NOx only, the five consecutive calendar year period which ends with the calendar year that the proposed modification is scheduled to commence operation, as stated by the applicant in a permit application.

Alternative Operating Scenario - for facilities proposing to use an alternative operating scenario pursuant to Part 201 of this Title, the period beginning five years prior to the date of complete application (as defined in section 621.2 of this Title) for the permit modification and ending with the final permit issuance date.

Contemporaneous periods, as applicable:

Scheduled commence construction date: \_\_\_\_\_

Scheduled commence operation date: \_\_\_\_\_

Start date of contemporaneous period: \_\_\_\_\_

End date of contemporaneous period: \_\_\_\_\_

**Net Emission Increase** - The aggregate increase in emissions of a regulated NSR contaminant in tpy at an existing major facility resulting from the sum of:

- (i) the project emission potential of the modification; and
- (ii) every creditable emission increase at the facility which is contemporaneous and for which an emission offset was not obtained; and
- (iii) any ERC at the facility, or portion thereof, selected by the applicant which is contemporaneous and which was not previously used as part of an emission offset, an internal offset, or relied upon in the issuance of a permit under this Part.

**Net Emission Increase Summary**

	VOC	NOx	PM-10
Project Emission Potential (tpy, use WKS-12)			
Contemporaneous creditable emission increase/ERC (±tpy, use WKS-13B)			
NET EMISSION INCREASE (±tpy)			

**SUBPART 231-6, CONTEMPORANEOUS CREDITABLE EMISSION INCREASES/EMISSION REDUCTION CREDITS WORKSHEET**

FACILITY NAME: \_\_\_\_\_

APPLICATION DEC ID# \_\_\_\_\_

Nonattainment Contaminants (check one):      VOC      NOx      PM-10

Contemporaneous Period, See NOTE #1: \_\_\_\_\_

EMISSION SOURCE ID#s \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

1. Emission Source	2. Description of contemporaneous change at source	3. Date of occurrence	4. Contemporaneous creditable emission increase/ERC ( $\pm$ tpy), See NOTES #2, #3
Sum of all increases/decreases above			

NOTE #1 - *Contemporaneous 231-4.1(b)(14)*. The time period used in a net emission increase determination for a regulated NSR contaminant as follows:

(i) except as stated in subparagraphs (ii) and (iii) of this paragraph, the period beginning five years prior to the scheduled commence construction date of the new or modified emission source, and ending with the scheduled commence operation date. These dates must be proposed by an applicant in a permit application;

(ii) in the severe ozone nonattainment area, for emissions of VOC or NOx only, the five consecutive calendar year period which ends with the calendar year that the proposed modification is scheduled to commence operation, as stated by the applicant in a permit application; or

(iii) for facilities proposing to use an alternative operating scenario pursuant to Part 201 of this Title, the period beginning five years prior to the date of complete application (as defined in Part 621.2 of this Title) for the permit modification and ending with the final permit issuance date.

(continued)

NOTE #2 -	<p><i>Creditable emission increase 231-4.1(b)(15).</i> Any increase in emissions of a regulated NSR contaminant in tpy from an existing major facility, other than such an increase from any proposed modification of the existing major facility that is under review by the department, which:</p> <ul style="list-style-type: none"><li>(i) results from a physical change in, or a change in the method of operation of an existing emission source(s), or the addition of a new emission source(s); and</li><li>(ii) for an existing emission source(s) is quantified as the difference between baseline actual emissions and projected actual emissions, and for a new emission source(s) is quantified based on the potential to emit of the emission source(s).</li></ul>
NOTE #3 -	<p><i>Emission reduction credit, ERC 231-4.1(b)(19).</i> The actual decrease in emissions of a regulated NSR contaminant, in tpy, determined in accordance with the requirements of Subpart 231-10 of this Part. An ERC must be certified in order to be used in a netting analysis.</p>

<b>SUBPARTS 231-7 &amp; 8, FACILITY TYPE/APPLICABILITY DETERMINATION WORKSHEET</b>			
FACILITY NAME: _____ ADDRESS: _____ APPLICATION DEC ID# _____ COUNTY: _____ PROPOSED PROJECT DESCRIPTION: _____ _____ EMISSION SOURCE ID#s _____, _____, _____, _____, _____, _____, _____			
PREPARER'S NAME _____		TITLE _____	
SIGNATURE _____		DATE ____/____/____	
REVIEWER'S NAME _____		REGION # ____ DATE ____/____/____	
	<b>Y</b>	<b>N</b>	<b>ACTION</b>
1. PSD contaminant review. For NA applicability go to WKS-1			Go to 2
2. Is a new facility with emissions of any regulated NSR contaminant, see NOTE #1, being proposed?			YES- Go to WKS-15  NO - Go to 3
3. Is a modification, see NOTE #2, being proposed to an existing facility?			YES - Go to WKS-16  NO - See NOTE #3
COMMENTS:			
<b>NOTE #1-</b> <i>Regulated NSR Contaminant 231-4.1(b)(45).</i> A regulated NSR contaminant is any one of the following:  <div style="margin-left: 40px;">             (i) any contaminant for which a national ambient air quality standard has been promulgated and any constituents or precursors for such contaminants identified under the Act or by the administrator of the US EPA in a promulgated rule;               (ii) any contaminant that is subject to any standard promulgated under section 111 of the Act;               (iii) any Federal Class I or II substance subject to a standard promulgated under or established by Title VI of the Act;               (iv) any contaminant that otherwise is subject to regulation under the Act as defined in 231-4.1(b)(50); or               (v) notwithstanding subparagraphs (i) through (iv), the term regulated NSR contaminant shall not include any or all hazardous air pollutants either listed in section 112 of the Act or added to the list pursuant to section 112(b)(2) of the Act, which have not been delisted pursuant to section 112(b)(3) of the Act, are not regulated NSR contaminants unless the listed hazardous air pollutant is also regulated as a constituent or precursor of a criteria contaminant listed under section 108 of the Act.           </div>			
<b>NOTE #2 -</b> <i>Modification 231-4.1(b)(30).</i> A modification is any physical change in, or change in the method of operation of, a facility which results in a level of annual emissions (not including any emission reductions) in excess of the Baseline Actual Emissions of any Regulated NSR Contaminant emitted by such facility or which results in the emission of any Regulated NSR Contaminant not previously emitted. A modification shall not include the following:  <div style="margin-left: 40px;">             (i) routine maintenance, repair, or replacement as defined in 6 NYCRR Part 200.           </div>			

(continued)



(ii) use of an alternative fuel or raw material by reason of an order under sections 2(a) and (b) of the Energy Supply and Environmental Coordination Act of 1974 (or any superseding legislation) or by reason of a natural gas curtailment plan pursuant to the Federal Power Act; (iii) use of an alternative fuel by reason of an order or rule under section 125 of the Clean Air Act;

(iv) use of an alternative fuel at a steam generating unit to the extent that the fuel is generated from municipal solid waste;

(v) use of an alternative fuel or raw material by a facility which:

(a) the facility was capable of accommodating before January 6, 1975, unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975 pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR Part 51 Subpart I or 40 CFR 51.166; or

(b) the facility is approved to use, pursuant to this Part, or which is included in a permit issued pursuant to 40 CFR 52.21.

(vi) an increase in the hours of operation or in the production rate, unless such change would be prohibited under any permit condition which was established after January 6, 1975, pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR Part 51 Subpart I or 40 CFR 51.166;

(vii) any change in ownership at a facility.

NOTE #3 -

Not subject to Subparts 231-7 or 8, however, project may be subject to the notification requirements of subdivision 231-3.5(c) if the applicant determines that the proposed project does not constitute a *modification* because all the project emission increases are attributable to independent factors in accordance with clause 231-4.1(b)(42)(i)(c).

SUBPART 231-7, PROPOSED NEW FACILITY – APPLICABILITY WORKSHEET			
FACILITY NAME: _____			
APPLICATION DEC ID# _____			
	Y	N	ACTION
1. Is proposed facility one of the 26 listed source categories? (see Appendix C)			YES - Go to 2 NO - Go to 3
2. Is the proposed facility PTE $\geq$ 100 tpy for any regulated NSR contaminant (See Appendix D) other than GHGs? (Use WKS-19 for calculating PTE) NOx _____ tpy      PM-2.5 _____ tpy SO <sub>2</sub> _____ tpy      _____ tpy CO _____ tpy      _____ tpy PM _____ tpy PM-10 _____ tpy			YES - See NOTE #1, go to 4 NO - See NOTE #2
3. Is the proposed facility PTE $\geq$ 250 tpy for any regulated NSR contaminant (See Appendix D) other than GHGs? (Use WKS-19 for calculating PTE) NOx _____ tpy      PM-2.5 _____ tpy SO <sub>2</sub> _____ tpy      _____ tpy CO _____ tpy      _____ tpy PM _____ tpy PM-10 _____ tpy			YES - See NOTE #1, go to 4 NO - See NOTE #2
4. Has the applicant complied with all of the following permit requirements (Re: section 231-7.3): a. Air quality impact analyses (Re: subdivision 231-7.3(a)). b. BACT review (Re: subdivision 231-7.3(b)). c. Source impact analysis (Re: subdivision 231-7.3(c)). d. Source information (Re: subdivision 231-7.3(d)). e. Additional impact analyses (Re: subdivision 231-7.3(e)).			YES - See NOTE #3 NO - See NOTE #4
NOTE #1 - Major facility subject to Subpart 231-7 for each regulated NSR contaminant including GHGs for which facility PTE $\geq$ SPT (see Appendix D).  Ambient air monitoring is required in accordance with Subpart 231-12  Air quality impact analysis is required in accordance with Subpart 231-12  BACT required in accordance with section 231-7.6 for each emission source that is part of the proposed facility and which emits any such Regulated NSR Contaminant.			
NOTE #2 - Non-major facility, not subject to Subpart 231-7.			
NOTE #3 - Detailed PSD review may proceed.			
NOTE #4 - Notice of incomplete application should be sent.			

**SUBPARTS 231-7 & 8, EXISTING FACILITY MODIFICATION – APPLICABILITY WORKSHEET**

FACILITY NAME \_\_\_\_\_  
 APPLICATION DEC ID# \_\_\_\_\_  
 EMISSION SOURCE. ID#S \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

	Y	N	ACTION
1. Is a modification being proposed (see NOTE #1 on WKS-1)?			YES - Go to 2 NO - See NOTE #1
2. For any regulated NSR contaminant other than GHGs (see Appendix D) is existing facility PTE ≥ MFT? (See NOTE #2, use WKS-17 for calculating PTE) NOx _____ tpy      PM-10 _____ tpy SO <sub>2</sub> _____ tpy      PM-2.5 _____ tpy CO _____ tpy      _____ tpy PM _____ tpy      _____ tpy			YES - Go to 3 NO - Go to 4
3. Major facility			Go to WKS-17
4. Non-major facility			Go to WKS-18
NOTE #1 - Not subject to Subpart 231-7 or 8 but may be subject to subdivision 231-3.5(c).			
NOTE #2 - MFT is 100 tpy for facilities included in the source category list in Appendix C or 250 tpy if not included			

SUBPARTS 231-7 & 8, EXISTING MAJOR FACILITY MODIFICATION – APPLICABILITY WORKSHEET			
FACILITY NAME _____			
APPLICATION DEC ID# _____			
EMISSION SOURCE. ID#S _____, _____, _____, _____, _____, _____, _____			
	Y	N	ACTION
1. Major facility. For any regulated NSR contaminant other than GHGs (see Appendix D) is PEP ≥ SPT?* (Use WKS-20 for calculating PEP) NOx (PEP) _____ tpy ≥ 40 tpy? PM-10 (PEP) _____ tpy ≥ 15 tpy? SO <sub>2</sub> (PEP) _____ tpy ≥ 40 tpy? PM-2.5 (PEP) _____ tpy ≥ 10 tpy? CO (PEP) _____ tpy ≥ 100 tpy? _____ (PEP) _____ tpy PM (PEP) _____ tpy ≥ 25 tpy? _____ (PEP) _____ tpy			YES - Go to 2  NO - See NOTE #1
2. Has a NEI analysis been provided by the applicant? (Re: paragraph 231-4.1(b)(31))			YES - Go to 3  NO - See NOTE #2
3. For any regulated NSR contaminant other than GHGs (see Appendix D) which satisfies condition #2, is NEI ≥ SNEIT?* (Use WKS-21A & B for calculating NEI) NOx (NEI) _____ tpy ≥ 40 tpy? PM-10 (NEI) _____ tpy ≥ 15 tpy? SO <sub>2</sub> (NEI) _____ tpy ≥ 40 tpy? PM-2.5 (NEI) _____ tpy ≥ 10 tpy? CO (NEI) _____ tpy ≥ 100 tpy? _____ (NEI) _____ tpy PM (NEI) _____ tpy ≥ 25 tpy? _____ (NEI) _____ tpy			YES - Go to 4  NO - See NOTE #3
4. For GHGs calculate PEP. (Use WKS-20 for calculating PEP) GHGm (PEP) _____ tpy ≥ 0 tpy? GHGe (PEP) _____ tpy ≥ 75,000 tpy?			See NOTE #4, go to 5
5. Has the applicant complied with all of the following permit requirements (Re: section 231-8.4): a. Air quality impact analyses (Re: subdivision 231-8.4(a)). b. BACT review (Re: subdivision 231-8.4(b)). c. Source impact analysis (Re: subdivision 231-8.4(c)). d. Source information (Re: subdivision 231-8.4(d)). e. Additional impact analyses (Re: subdivision 231-8.4(e))			YES - See NOTE #5  NO - See NOTE #2
NOTE #1- Not subject to Subpart 231-8 review, however, must comply with applicable section 231-11.2 reasonable possibility requirements for insignificant modifications.			
NOTE #2 - Notice of incomplete application should be sent.			
NOTE #3- Must comply with applicable sections 231-8.2 and 231-11.1 Netting requirements.			
NOTE #4 - Modification subject to Subpart 231-8 for each regulated NSR contaminant other than GHGs with NEI ≥ SNEIT or with PEP ≥ SPT for GHGs (See Appendix D)  Ambient air monitoring is required in accordance with Subpart 231-12  Air quality impact analysis in accordance with Subpart 231-12  BACT required in accordance with section 231-8.7 for each emission source that is part of the modification and which emits any such regulated NSR contaminant			
NOTE #5 - Detailed PSD review may proceed.			

\*Each regulated NSR contaminant is evaluated independently and can result in the need to follow the “yes” path for one and the “no” path for another

SUBPARTS 231-7 & 8, EXISTING NON-MAJOR FACILITY MODIFICATION – APPLICABILITY WORKSHEET			
FACILITY NAME _____ APPLICATION DEC ID# _____ EMISSION SOURCE. ID#S _____, _____, _____, _____, _____, _____, _____			
	Y	N	ACTION
1. Non-major facility. For any regulated NSR contaminant other than GHGs (see Appendix D) is PEP ≥ MFT? (See NOTE #1, use WKS-20 for calculating PEP) NOx _____ tpy      PM-10 _____ tpy SO <sub>2</sub> _____ tpy      PM-2.5 _____ tpy CO _____ tpy      _____ tpy PM _____ tpy      _____ tpy			Yes - Go to 2  NO - See NOTE #2
2. For any regulated NSR contaminant including GHGs (see Appendix D) is PEP ≥ SPT?* (Use WKS-20 for calculating PEP) NOx (PEP) _____ tpy ≥ 40 tpy?      PM-10 (PEP) _____ tpy ≥ 15 tpy? SO <sub>2</sub> (PEP) _____ tpy ≥ 40 tpy?      PM-2.5 (PEP) _____ tpy ≥ 10 tpy? CO (PEP) _____ tpy ≥ 100 tpy?      _____ (PEP) _____ tpy PM (PEP) _____ tpy ≥ 25 tpy?      _____ (PEP) _____ tpy GHGm (PEP) _____ tpy ≥ 0 tpy? GHGe (PEP) _____ tpy ≥ 75,000 tpy?			YES - See NOTE #3, go to 3  NO - See NOTE #2
3. Has the applicant complied with all of the following permit requirements (Re: section 231-7.3): a. Air quality impact analyses (Re: subdivision 231-7.3(a)). b. BACT review (Re: subdivision 231-7.3(b)). c. Source impact analysis (Re: subdivision 231-7.3(c)). d. Source information (Re: subdivision 231-7.3(d)). e. Additional impact analyses (Re: subdivision 231-7.3(e)).			YES - See NOTE #4  NO - See NOTE #5
NOTE #1 - MFT is 100 tpy for facilities included in the source category list in Appendix C or 250 tpy if not included			
NOTE #2 - Not subject to Subpart 231-7 review, however, if Facility PTE after modification exceeds applicable MFT, a permit with the new PTE limit is required (Re: subdivision 231-7.1(b)).			
NOTE #3 - Modification subject to Subpart 231-7 for each regulated NSR contaminant including GHGs for which PEP ≥ SPT (See Appendix D)  Ambient air monitoring is required in accordance with Subpart 231-12  Air quality impact analysis is required in accordance with Subpart 231-12  BACT required in accordance with section 231-7.6 for each emission source that is part of the modification and which emits any such regulated NSR contaminant			
NOTE #4 - Detailed PSD review may proceed.			
NOTE #5 - Notice of incomplete application should be sent.			

\*Each regulated NSR contaminant is evaluated independently and can result in the need to follow the “yes” path for one and the “no” path for another

**SUBPARTS 231-7 & 8, FACILITY POTENTIAL TO EMIT CALCULATION WORKSHEET**

FACILITY NAME: \_\_\_\_\_

APPLICATION DEC ID# \_\_\_\_\_

**NOTE:** Facility PTE is -

A. For a proposed new facility - Sum of the PTE of each proposed emission source.

B. For an existing facility - Sum of the PTE of each existing emission source.

**NOTE:** *PTE* - The maximum capacity of an air contamination source to emit any regulated air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of the emission source to emit a regulated air pollutant, including air pollution control equipment and/or restrictions on the hours of operation, or on the type or amount of material combusted, stored, or processed, shall be treated as a part of the design if the limitation is enforceable by the department and the administrator. Fugitive emissions, to the extent that they are quantifiable, are included in determining the potential to emit where required by an applicable requirement. Secondary emissions (as defined in Part 231-4 of this Title) are not to be included when calculating an emission source's potential to emit. For emergency power generating stationary internal combustion engines, the potential to emit will be based on a maximum of 500 hours of operation per year per engine unless a more restrictive limitation exists in a permit or registration. (Re: subdivision 200.1(b))

**Regulated NSR Contaminant(s):** (check/add)NO<sub>x</sub>      SO<sub>2</sub>      CO      PM      PM-10      PM-2.5      \_\_\_\_\_**Facility Emission Potential Calculation**

EMISSION SOURCE ID#	PTE of NO <sub>x</sub> (tpy)	PTE of SO <sub>2</sub> (tpy)	PTE of CO (tpy)	PTE of PM (tpy)	PTE of PM-10 (tpy)
Facility Potential To Emit (tpy) = (Sum of the potential to emit of each emission source)					

(continued)

EMISSION SOURCE ID#	PTE of PM-2.5 (tpy)	PTE of _____ (tpy)	PTE of _____ (tpy)	PTE of _____ (tpy)	PTE of _____ (tpy)
Facility Potential To Emit (tpy) = (Sum of the potential to emit of each emission source)					

SUBPARTS 231-7 & 8, PROJECT EMISSION POTENTIAL CALCULATION WORKSHEET			
FACILITY NAME: _____			
APPLICATION DEC ID# _____			
EMISSION SOURCE ID#s _____, _____, _____, _____, _____, _____, _____			
	Y	N	ACTION
1. Does the proposed modification involve addition of one or more new emission sources?			YES - Go to 2 NO - Go to 3
2. For each new emission source, what is the PTE, see NOTE #1, in tpy of each regulated NSR contaminant (See Appendix E for calculating GHG emissions)? ES ID# _____ NO <sub>x</sub> = _____ SO <sub>2</sub> = _____ CO = _____ PM = _____ PM-10 = _____ PM-2.5 = _____ GHG <sub>m</sub> = _____ GHG <sub>e</sub> = _____ _____ = _____ _____ = _____			Go to 4
3. Therefore, the modification is of one or more existing emission sources.			Go to 5
4. Does the modification involve one or more existing emission sources?			YES - Go to 5 NO - Go to 7
5. For each existing emission source undergoing modification, what is the BAE, see NOTE #2, in tpy of each regulated NSR contaminant (See Appendix E for calculating GHG emissions)? ES ID# _____ NO <sub>x</sub> = _____ SO <sub>2</sub> = _____ CO = _____ PM = _____ PM-10 = _____ PM-2.5 = _____ GHG <sub>m</sub> = _____ GHG <sub>e</sub> = _____ _____ = _____ _____ = _____			Go to 6

(continued)



6. For each existing emission source undergoing modification, what is the PAE, see NOTE #3, or the PTE, see NOTE #1, (if used in lieu of PAE) in tpy of each regulated NSR contaminant after modification (See Appendix E for calculating GHG emissions)?

ES ID# \_\_\_\_\_

NO<sub>x</sub> = \_\_\_\_\_

SO<sub>2</sub> = \_\_\_\_\_

CO = \_\_\_\_\_

PM = \_\_\_\_\_

PM-10 = \_\_\_\_\_

PM-2.5 = \_\_\_\_\_

GHG<sub>m</sub> = \_\_\_\_\_

GHG<sub>e</sub> = \_\_\_\_\_

\_\_\_\_\_ = \_\_\_\_\_

\_\_\_\_\_ = \_\_\_\_\_

Please indicate whether the numbers are PTE or PAE: PTE ☐ PAE ☐

Go to 7

**7. Project Emission Potential of NO<sub>x</sub> = Sum of:**

- a. Row 2 for NO<sub>x</sub> from each new emission source

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ tpy;

and

- b. Where Row 6 > Row 5: the difference between future and baseline emissions (Row 6 - Row 5) for NO<sub>x</sub> from each modification of an existing emission source

Where Row 6 ≤ Row 5: enter a zero for the NO<sub>x</sub> increase from that emission source

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ tpy

PEP of NO<sub>x</sub> = a + b = \_\_\_\_\_ tpy

**Project Emission Potential of SO<sub>2</sub> = Sum of:**

- a. Row 2 for SO<sub>2</sub> from each new emission source

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ tpy;

and

- b. Where Row 6 > Row 5: the difference between future and baseline emissions (Row 6 - Row 5) for SO<sub>2</sub> from each modification of an existing emission source

Where Row 6 ≤ Row 5: enter a zero for the SO<sub>2</sub> increase from that emission source

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ tpy

PEP of SO<sub>2</sub> = a + b = \_\_\_\_\_ tpy

**Project Emission Potential of CO = Sum of:**

- a. Row 2 for CO from each new emission source

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ tpy;

and

- b. Where Row 6 > Row 5: the difference between future and baseline emissions (Row 6 - Row 5) for CO from each modification of an existing emission source

Where Row 6 ≤ Row 5: enter a zero for the CO increase from that emission source

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ tpy

PEP of CO = a + b = \_\_\_\_\_ tpy

(continued)

**Project Emission Potential of PM = Sum of:**

- a. Row 2 for PM from each new emission source

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ tpy;

and

- b. Where Row 6 > Row 5: the difference between future and baseline emissions (Row 6 - Row 5) for PM from each modification of an existing emission source

Where Row 6 ≤ Row 5: enter a zero for the PM increase from that emission source

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ tpy

PEP of PM = a + b = \_\_\_\_\_ tpy

**Project Emission Potential of PM-10 = Sum of:**

- a. Row 2 for PM-10 from each new emission source

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ tpy;

and

- b. Where Row 6 > Row 5: the difference between future and baseline emissions (Row 6 - Row 5) for PM-10 from each modification of an existing emission source

Where Row 6 ≤ Row 5: enter a zero for the PM-10 increase from that emission source

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ tpy

PEP of PM-10 = a + b = \_\_\_\_\_ tpy

**Project Emission Potential of PM-2.5 = Sum of:**

- a. Row 2 for PM-2.5 from each new emission source

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ tpy;

and

- b. Where Row 6 > Row 5: the difference between future and baseline emissions (Row 6 - Row 5) for PM-2.5 from each modification of an existing emission source

Where Row 6 ≤ Row 5: enter a zero for the PM-2.5 increase from that emission source

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ tpy

PEP of PM-2.5 = a + b = \_\_\_\_\_ tpy

**Project Emission Potential of GHG<sub>m</sub> = Sum of:**

- a. Row 2 for GHG
- <sub>m</sub>
- from each new emission source

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ tpy;

and

- b. Where Row 6 > Row 5: the difference between future and baseline emissions (Row 6 - Row 5) for GHG
- <sub>m</sub>
- from each modification of an existing emission source

Where Row 6 ≤ Row 5: enter a zero for the GHG<sub>m</sub> increase from that emission source

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ tpy

PEP of GHG<sub>m</sub> = a + b = \_\_\_\_\_ tpy**Project Emission Potential of GHG<sub>e</sub> = Sum of:**

- a. Row 2 for GHG
- <sub>e</sub>
- from each new emission source

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ tpy;

and

- b. Where Row 6 > Row 5: the difference between future and baseline emissions (Row 6 - Row 5) for GHG
- <sub>e</sub>
- from each modification of an existing emission source

Where Row 6 ≤ Row 5: enter a zero for the GHG<sub>e</sub> increase from that emission source

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ tpy

PEP of GHG<sub>e</sub> = a + b = \_\_\_\_\_ tpy

(continued)

**Project Emission Potential of \_\_\_\_\_ = Sum of:**

- a. Row 2 for \_\_\_\_\_ from each new emission source

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ tpy;

and

- b. Where Row 6 > Row 5: the difference between future and baseline emissions (Row 6 - Row 5) for \_\_\_\_\_ from each modification of an existing emission source

Where Row 6 ≤ Row 5: enter a zero for the \_\_\_\_\_ increase from that emission source

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ tpy

PEP of \_\_\_\_\_ = a + b = \_\_\_\_\_ tpy

**Project Emission Potential of \_\_\_\_\_ = Sum of:**

- a. Row 2 for \_\_\_\_\_ from each new emission source

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ tpy;

and

- b. Where Row 6 > Row 5: the difference between future and baseline emissions (Row 6 - Row 5) for \_\_\_\_\_ from each modification of an existing emission source

Where Row 6 ≤ Row 5: enter a zero for the \_\_\_\_\_ increase from that emission source

\_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ tpy

PEP of \_\_\_\_\_ = a + b = \_\_\_\_\_ tpy

NOTE #1 - *Potential to emit 200.1(b)*. The maximum capacity of an air contamination source to emit any regulated air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of the emission source to emit a regulated air pollutant, including air pollution control equipment and/or restrictions on the hours of operation, or on the type or amount of material combusted, stored, or processed, shall be treated as a part of the design if the limitation is enforceable by the department and the administrator. Fugitive emissions, to the extent that they are quantifiable, are included in determining the potential to emit where required by an applicable requirement. Secondary emissions (as defined in Part 231-4 of this Title) are not to be included when calculating an emission source's potential to emit. For emergency power generating stationary internal combustion engines, the potential to emit will be based on a maximum of 500 hours of operation per year per engine unless a more restrictive limitation exists in a permit or registration.

NOTE #2 - *Baseline actual emissions 231-4.1(b)(4)*. The annual rate of emissions of a regulated NSR contaminant from an emission source determined as follows:

(i) The average rate (as defined in clauses a, b, c, d, and e below), in tpy, at which an emission source physically emitted the contaminant during its baseline period, determined by using the source's actual operating hours, production rates, and types of materials processed, stored, or combusted during the selected baseline period.

(a) The average rate includes fugitive emissions to the extent quantifiable if the facility belongs to one of the source categories listed in Part 201-2.1(b)(21)(iii) of this Title, and emissions associated with startups, shutdowns, and malfunctions.

(b) The average rate must be adjusted downward to exclude any non-compliant emissions that occurred while the emission source was operating above any applicable emission limitation.

(c) Except for electric utility steam generating units, the average rate must be adjusted downward to exclude any emissions that exceeded an emission limitation with which the emission source must currently comply, had such emission source been required to comply with such limitations during the baseline period. However, if an emission limitation is part of a maximum achievable control technology standard that the administrator proposed or promulgated under 40 CFR Part 63, the baseline actual emissions rate need only be adjusted if the State has taken credit for such emissions reductions in an attainment demonstration or maintenance plan consistent with the requirements of 40 CFR 51.165(a)(3)(ii)(G). For the purposes of a creditable emission increase or emission reduction credit used for netting, currently means at the time that the increase or reduction actually occurred.

(continued)

(d) For a regulated NSR contaminant, when a project involves multiple emissions sources, one baseline period must be used to determine the baseline actual emissions of the emission sources being modified. A different baseline period cannot be used for each regulated NSR contaminant.

(e) For multiple emission sources shutting down or taking limits not in conjunction with a modification, a different baseline period may be used for each emission source.

(ii) The applicant must use a reliable basis for quantifying the baseline actual emissions. Continuous emissions monitoring (CEM) data or stack test data approved by the department must be used if the facility is required to generate such data. Facilities required to submit annual emission statements in accordance with Subpart 202-2 of this Title must use the same method for determining baseline actual emissions as was used for the approved emission statements for the time period encompassing the baseline period unless CEM or stack test data is available. If such data is not available, acceptable bases for quantifying baseline actual emissions include, but are not limited to, EPA's AP-42 emission factors, and fuel and solvent purchase records, with department approval.

NOTE #3 -

*Projected actual emissions 231-4.1(b)(42).* The maximum annual rate, in tpy, at which an existing emission source is projected to emit a regulated NSR contaminant in any one of the five years (12-month period) following the date the source commences operation after a modification, or in any one of the 10 years following that date if the project involves increasing the emission source's design capacity or its potential to emit that regulated NSR contaminant and full utilization of the emission source would result in exceeding the applicable significant project threshold in Tables 3, 4 or 6 of Subpart 231-13 of this Part or a significant net emissions increase at the major facility. Projected actual emissions are calculated only for existing major facilities.

(i) In determining the projected actual emissions as defined in this Section (before beginning actual construction), the owner or operator of the major facility:

(a) must consider all relevant information, including but not limited to, historical operational data, the facility's own representations, the facility's expected business activity and the facility's highest projections of business activity, the facility's filings with the State or federal regulatory authorities, and compliance plans under the approved State Implementation Plan; and

(b) must include fugitive emissions to the extent quantifiable if the facility belongs to one of the source categories listed in Part 201-2.1(b)(21)(iii) of this Title, and emissions associated with startups and shutdowns; and

(c) may exclude, in calculating any increase in emissions that results from the particular project, that portion of the emission source's emissions following the project that the existing emission source could have accommodated during the consecutive 24 month period used to establish the baseline actual emissions and that are also unrelated to the particular project.

(ii) In lieu of using the method set out in subparagraph (i) of this paragraph, the owner or operator of the facility may elect to use the potential to emit of the emission source(s), in tpy.

**SUBPART 231-8, NET EMISSION INCREASE ANALYSIS WORKSHEET** (Re: paragraph 231-4.1(b)(31))

FACILITY NAME: \_\_\_\_\_

APPLICATION DEC ID# \_\_\_\_\_

EMISSION SOURCE ID#s \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

**NOTE:** A net emission increase analysis is required for each Regulated NSR Contaminant other than GHGs for which the PEP equals or exceeds the SPT, see Appendix D.

**Common Regulated NSR Contaminant(s)** for which PEP ≥ SPT (check):

NOx

SO<sub>2</sub>

CO

PM

PM-10

PM-2.5

**List Other Contaminants** for which PEP ≥ SPT \_\_\_\_\_

**Contemporaneous Period:**

The period beginning five years prior to the scheduled commence construction date of the new or modified emission source, and ending with the scheduled commence operation date. These dates must be proposed by an applicant in a permit application.

Alternative Operating Scenario - for facilities proposing to use an alternative operating scenario pursuant to Part 201 of this Title, the period beginning five years prior to the date of complete application (as defined in section 621.2 of this Title) for the permit modification and ending with the final permit issuance date.

Scheduled commence construction date: \_\_\_\_\_

Scheduled commence operation date: \_\_\_\_\_

Start date of contemporaneous period: \_\_\_\_\_

End date of contemporaneous period: \_\_\_\_\_

**Net Emission Increase** - The aggregate increase in emissions of a regulated NSR contaminant in tpy at an existing major facility resulting from the sum of:

- (i) the project emission potential of the modification; and
- (ii) every creditable emission increase at the facility which is contemporaneous and for which an emission offset was not obtained; and
- (iii) any ERC at the facility, or portion thereof, selected by the applicant which is contemporaneous and which was not previously used as part of an emission offset, an internal offset, or relied upon in the issuance of a permit under this Part.

**Net Emission Increase Summary**

	NOx	SO <sub>2</sub>	CO	PM	PM-10	PM-2.5				
Project Emission Potential (tpy, use WKS-20)										
Contemporaneous creditable emission increase/ERC (±tpy, use WKS-21B)										
NET EMISSION INCREASE (±tpy)										

**SUBPART 231-8, CONTEMPORANEOUS CREDITABLE EMISSION INCREASES/EMISSION REDUCTION CREDITS WORKSHEET**

FACILITY NAME: \_\_\_\_\_

APPLICATION DEC ID# \_\_\_\_\_

Regulated NSR Contaminants other than GHGs (check one/add one):

NO<sub>x</sub>    SO<sub>2</sub>    CO    PM    PM-10    PM-2.5    \_\_\_\_\_

Contemporaneous Period, See NOTE #1: \_\_\_\_\_

EMISSION SOURCE ID#s \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

1. Emission Source	2. Description of contemporaneous change at source	3. Date of occurrence	4. Contemporaneous creditable emission increase/ERC ( $\pm$ tpy), See NOTES #2, #3
Sum of all increases/decreases above			

NOTE #1 - *Contemporaneous 231-4.1(b)(14)*. The time period used in a net emission increase determination for a regulated NSR contaminant as follows:

(i) except as stated in subparagraphs (ii) and (iii) of this paragraph, the period beginning five years prior to the scheduled commence construction date of the new or modified emission source, and ending with the scheduled commence operation date. These dates must be proposed by an applicant in a permit application;

(ii) in the severe ozone nonattainment area, for emissions of VOC or NO<sub>x</sub> only, the five consecutive calendar year period which ends with the calendar year that the proposed modification is scheduled to commence operation, as stated by the applicant in a permit application; or

(continued)

	(iii) for facilities proposing to use an alternative operating scenario pursuant to Part 201 of this Title, the period beginning five years prior to the date of complete application (as defined in Part 621.2 of this Title) for the permit modification and ending with the final permit issuance date
NOTE #2 -	<p><i>Creditable emission increase 231-4.1(b)(15).</i> Any increase in emissions of a regulated NSR contaminant in tpy from an existing major facility, other than such an increase from any proposed modification of the existing major facility that is under review by the department, which:</p> <p>(i) results from a physical change in, or a change in the method of operation of an existing emission source(s), or the addition of a new emission source(s); and</p> <p>(ii) for an existing emission source(s) is quantified as the difference between baseline actual emissions and projected actual emissions, and for a new emission source(s) is quantified based on the potential to emit of the emission source(s).</p>
NOTE #3 -	<p><i>Emission reduction credit, ERC 231-4.1(b)(19).</i> The actual decrease in emissions of a regulated NSR contaminant, in tpy, determined in accordance with the requirements of Subpart 231-10 of this Part. An ERC must be certified in order to be used in a netting analysis.</p>

**SUBPARTS 231-5, 6, 7, 8, EXAMPLES****Subparts 231-5 & 6 Nonattainment (NA) Area NSR**

- ❖ **Example A-1: Existing Major Facility Modification in Manhattan with No Contemporaneous Modifications**
- ❖ **Example A-2: Existing Major Facility Modification in Manhattan with Contemporaneous Modifications**
- ❖ **Example A-3: Existing Non-Major Facility Modification in Manhattan**
- ❖ **Example A-4: Existing Major Facility Modification in Syracuse with No Contemporaneous Modifications**
- ❖ **Example A-5: Existing Major Facility Modification in Syracuse with Contemporaneous Modifications**
- ❖ **Example A-6: Existing Non-Major Facility Modification in Syracuse**

**Subparts 231-7 & 8 Attainment Area NSR (PSD)**

- ❖ **Example A-7: Existing Non-Major Facility Modification**



## Example A-1: Existing Major Facility Modification in Manhattan with No Contemporaneous Modifications

### Nonattainment Area NSR

#### Existing Facility PTE:

VOC: 5 tons  
NOx: 40 tons  
PM-10 30 tons

Facility's NOx PTE is above the major facility threshold of 25 tpy and therefore is an existing major facility for NA contaminants (NOx, VOC, and PM-10) based on facility location (see maps of nonattainment areas in Appendix B).

#### Modification PEP/NEI:

VOC: 4 tons  
NOx: 45 tons  
PM-10: 10 tons

#### SPT:

2.5 tons  
2.5 tons  
15 tons

#### SNEIT:

25 tons  
25 tons  
15 tons

#### VOC and NOx for severe ozone nonattainment evaluated on WKS-5A

PEP for VOC is greater than the significant project threshold but NEI is less than the significant net emission increase threshold so only sections 231-6.2 and 231-11.1 netting requirements apply to VOC.

PEP and NEI for NOx are greater than both the significant project and significant net emission increase thresholds and is subject to Subpart 231-6 for NOx.

#### PM-10 nonattainment evaluated on WKS-6

PEP for PM-10 is less than the significant project threshold and therefore not subject to Subpart 231-6, however, the facility must still comply with the section 231-11.2 reasonable possibility provisions for PM-10.

## Example A-2: Existing Major Facility Modification in Manhattan with Contemporaneous Modifications

### Nonattainment Area NSR

Existing Facility PTE:	Recent creditable emission increases and emission reduction credits at the facility:	
	<u>7/1/10 decrease:</u>	<u>1/1/09 increase:</u>
VOC: 20 tons	VOC: 3 tons	VOC: 7 tons
NOx: 50 tons	NOx: 22 tons	NOx: 20 tons
PM-10: 10 tons	PM-10: 3 tons	PM-10: 4 tons

Facility's NOx PTE is above the major facility threshold of 25 tpy and therefore is an existing major facility for NA contaminants (NOx, VOC, and PM-10) based on facility location (see maps of nonattainment areas in Appendix B).

Project scheduled to commence construction on 10/1/13 and commence operation on 3/1/14.

Modification PEP:	SPT:	Modification NEI (PEP+CEI-ERC)	SNEIT:
VOC: 2 tons	2.5 tons	N/A (PEP < SPT)	25 tons
NOx: 45 tons	2.5 tons	45 + N/A - 22 = 23 tons	25 tons
PM-10: 17 tons	15 tons	17 + 4 - 3 = 18	15 tons

#### VOC and NOx for severe ozone nonattainment evaluated on WKS-5A

Contemporaneous period starts at the beginning of the calendar year which is four calendar years prior to the calendar year in which the proposed modification is scheduled to commence operation and finishes at the end of the calendar year the proposed modification is scheduled to commence operation.

Contemporaneous period: 1/1/10 to 12/31/14

PEP for VOC is below significant project thresholds and are not subject to Subpart 231-6, however, the modification must comply with the reasonable possibility provisions in section 231-11.2.

PEP for NOx is greater than the significant project threshold but below the significant net emission increase threshold and, therefore, subject to sections 231-6.2 and 231-11.1 for netting.

#### PM-10 nonattainment evaluated on WKS-6

Contemporaneous period starts on the date five annual periods (1825 consecutive days) prior to the date construction of the proposed modification is scheduled to commence and ends on the date the proposed modification is scheduled to commence operation.

Contemporaneous period: 10/1/08 to 3/1/14

PEP and NEI for PM-10 are greater than both the significant project and significant net emission increase thresholds and is subject to Subpart 231-6.

**Example A-3: Existing Non-Major Facility Modification in Manhattan****Nonattainment Area NSR**

<u>Existing Facility PTE:</u>	<u>MFT</u>
VOC: 7 tons	25 tons
NOx: 20 tons	25 tons
PM-10: 5 tons	100 tons

Facility's PTE is below the major facility threshold for all NA contaminants (NOx, VOC, and PM-10) and therefore is an existing non-major facility (not allowed to net out of NSR applicability).

Modification PEP:

VOC: 20 tons  
NOx: 75 tons  
PM-10: 20 tons

VOC and NOx for severe ozone nonattainment evaluated on WKS-8

PEP for VOC is less than the major facility threshold and is not subject to Subpart 231-5, however, the facility potential to emit after the modification is greater than the major facility threshold and an emission limit (in tons per year) for VOC set at the new potential to emit is required in the permit.

PEP for NOx is greater than the major facility threshold and is subject to Subpart 231-5.

PM-10 nonattainment evaluated on WKS-9

PEP for PM-10 is less than the major facility threshold and are not subject to 231-5.

## Example A-4: Existing Major Facility Modification in Syracuse with No Contemporaneous Modifications

### Nonattainment Area NSR

#### Existing Facility PTE:

VOC: 25 tons  
NOx: 140 tons

Facility's NOx PTE is above the major facility threshold of 100 tpy and therefore is an existing major facility for NA contaminants (NOx and VOC) based on facility location (see maps of nonattainment areas in Appendix B).

#### Modification PEP/NEI:

VOC: 4 tons  
NOx: 45 tons

#### SPT/SNEIT:

40 tons  
40 tons

#### VOC and NOx for attainment portion of the ozone transport region evaluated on WKS-7

PEP and NEI for VOC are below the significant project threshold and is not subject to 231-6 however the facility must still comply with section 231-11.2 reasonable possibility provisions.

PEP and NEI for NOx are greater than both the significant project and significant net emission increase thresholds and is subject to Subpart 231-6.

## Example A-5: Existing Major Facility Modification in Syracuse with Contemporaneous Modifications

### Nonattainment Area NSR

#### Existing Facility PTE:

VOC: 25 tons  
NOx: 150 tons

Recent emission reduction credits at the facility:

#### 1/1/10 decrease:

VOC: 3 tons  
NOx: 20 tons

Facility's NOx PTE is above the major facility threshold of 100 tpy and therefore is an existing major facility for NA contaminants (NOx and VOC) based on facility location (see maps of nonattainment areas in Appendix B).

Project scheduled to commence construction on 10/1/13 and commence operation on 3/1/14.

<u>Modification PEP:</u>	<u>SPT</u>	<u>Modification NEI (PEP+CEI-ERC)</u>	<u>SNEIT</u>
VOC: 5 tons	40 tons	N/A (PEP < SPT)	40 tons
NOx: 50 tons	40 tons	50 + N/A - 20 = 30 tons	40 tons

#### VOC and NOx for attainment portion of the ozone transport region evaluated on WKS-7

Contemporaneous period starts on the date five annual periods (1825 consecutive days) prior to the date construction of the proposed modification is scheduled to commence and ends on the date the proposed modification is scheduled to commence operation

Contemporaneous period: 10/1/08 to 3/1/14

PEP for VOC is below significant project threshold and is not subject to Subpart 231-6 however must comply with the reasonable possibility provisions in section 231-11.2.

PEP for NOx is greater than the significant project but less than the significant net emission increase thresholds and therefore subject to sections 231-6.2 and 231-11.1 for netting.

**Example A-6: Existing Non-Major Facility Modification in Syracuse****Nonattainment Area NSR**Existing Facility PTE:

VOC: 40 tons

NOx: 70 tons

MFT:

50 tons

100 tons

Facility's PTE is below the major source threshold for all NA contaminants and, therefore, is an existing non-major facility.

Modification PEP:

VOC: 20 tons

NOx: 125 tons

VOC and NOx for attainment portion of the ozone transport region evaluated on WKS-10

PEP for VOC is less than the major facility threshold and, therefore, is not subject to Subpart 231-5, however, the facility potential to emit after the modification is greater than the major facility threshold and an emission limit (in tons per year) for VOC set at the new potential to emit is required in the permit.

PEP for NOx is greater than the major facility threshold and, therefore, is subject to Subpart 231-5.

## Example A-7: Existing Non-Major Facility Modification

### Attainment Area NSR

The facility is one of the source categories listed in Appendix C, so the major facility threshold is 100 tons.

<u>Existing Facility PTE:</u>		<u>MFT</u>		
CO:	20 tons	100 tons		
SO <sub>2</sub> :	30 tons	100 tons		
PM:	10 tons	100 tons		
Greenhouse Gases		N/A	<u>GWP:</u>	
CO <sub>2</sub> :	90,000 tons		CO <sub>2</sub> :	1
CH <sub>4</sub> :	1 ton		CH <sub>4</sub> :	25
N <sub>2</sub> O:	1 ton		N <sub>2</sub> O:	298
SF <sub>6</sub> :	0.5 tons		SF <sub>6</sub> :	22,800
GHG <sub>m</sub> :	$90,000 + 1 + 1 + 0.5 = 90,002.5$ tons			
GHG <sub>e</sub> :	$(90,000)(1) + (1)(25) + (1)(298) + (0.5)(22,800) = 101,723$ tons CO <sub>2e</sub>			

Facility's PTE is below the major facility threshold for all regulated NSR contaminants and, therefore, is an existing non-major facility for the purposes of PSD.

<u>Modification PEP:</u>		<u>SPT:</u>
CO:	120 tons	100 tons
SO <sub>2</sub> :	45 tons	40 tons
PM:	15 tons	25 tons
Greenhouse Gases		
CO <sub>2</sub> :	140,000 tons	N/A
CH <sub>4</sub> :	2 tons	N/A
N <sub>2</sub> O:	0.5 tons	N/A
SF <sub>6</sub> :	no increase	N/A
GHG <sub>m</sub> :	$140,000 + 2 + 0.5 + 0 = 140,002.5$ tons	any increase
GHG <sub>e</sub> :	$(140,000)(1) + (2)(25) + (0.5)(298) + (0)(22,800) = 140,199$ tons CO <sub>2e</sub>	75,000 tons CO <sub>2e</sub>

#### PSD contaminants evaluated on WKS-18

PEP for CO is above the major facility threshold and, therefore, subject to Subpart 231-7. PEP for SO<sub>2</sub> and GHG are above the applicable significant project thresholds and, therefore, subject to Subpart 231-7. PEP for PM is below the applicable significant project threshold and, therefore, not subject to Subpart 231-7.

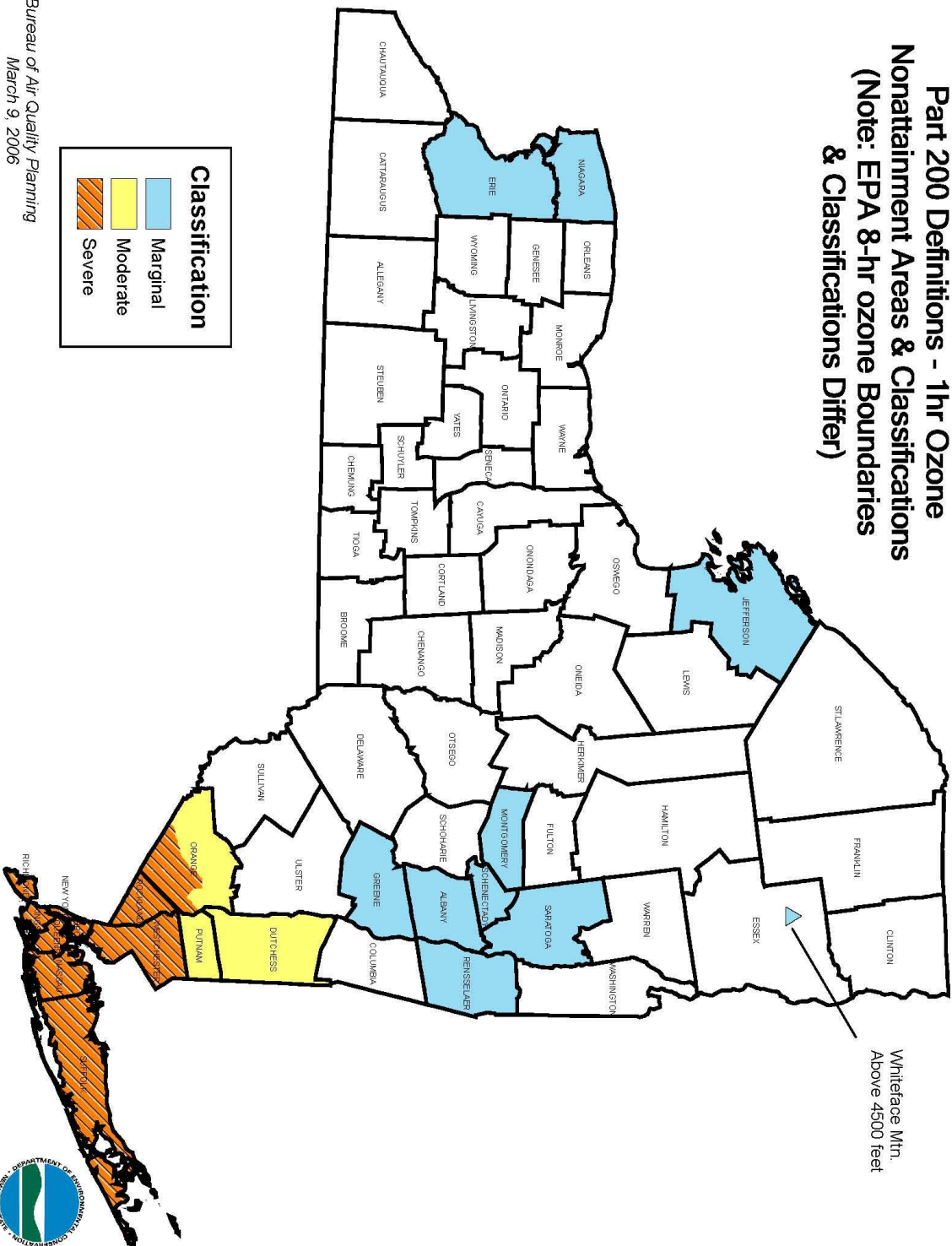
**SUBPARTS 231-5 & 6, MAPS OF NONATTAINMENT AREAS IN NEW YORK**

- ❖ **Appendix B-1: 1-Hour Ozone Nonattainment Map**
- ❖ **Appendix B-2: PM-10 Nonattainment Map**



## Appendix B-1: 1-Hour Ozone Nonattainment Map

# **Part 200 Definitions - 1hr Ozone Nonattainment Areas & Classifications (Note: EPA 8-hr ozone Boundaries & Classifications Differ)**

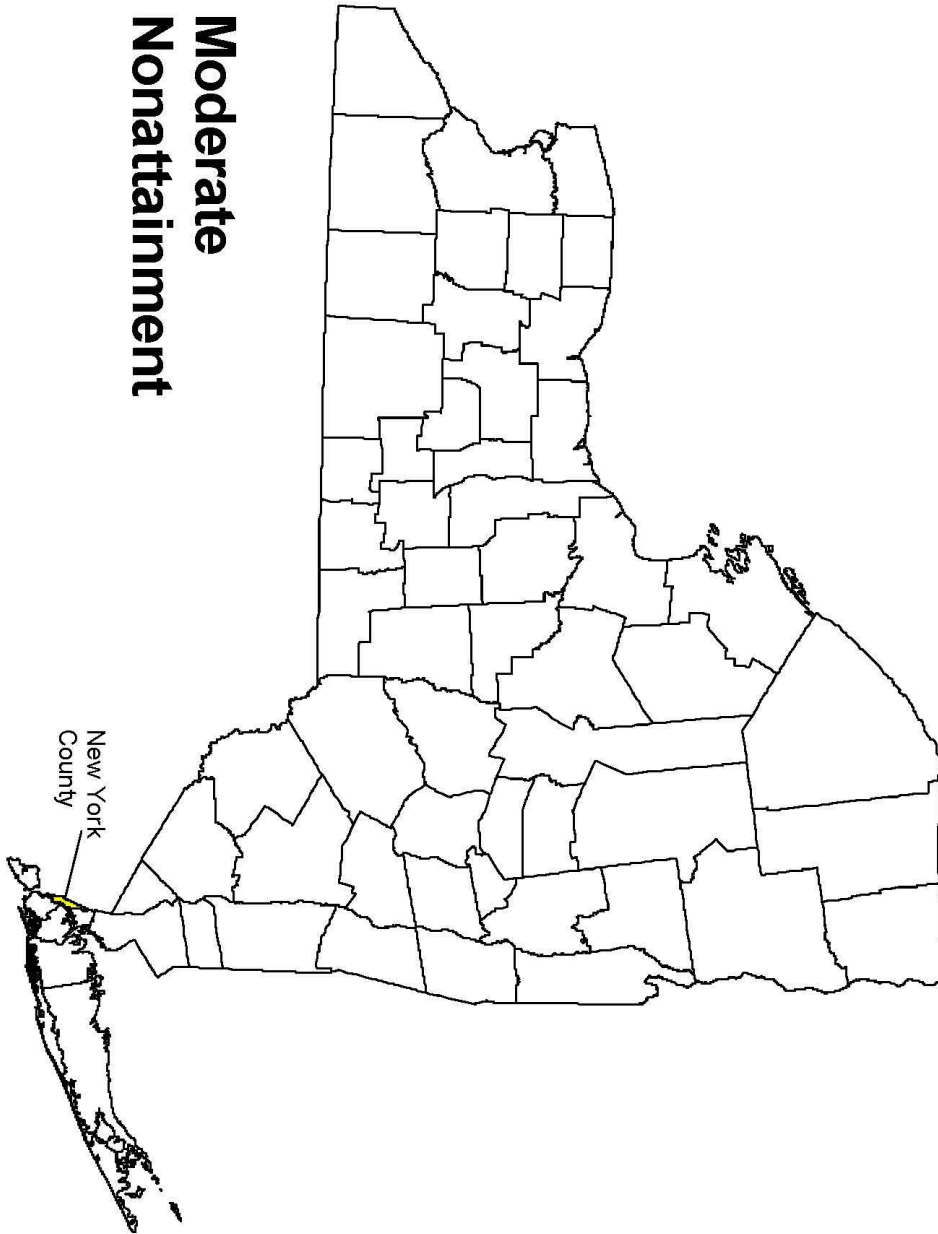


Bureau of Air Quality Planning  
March 9, 2006

# Appendix B-2: PM-10 Nonattainment Map

## PM-10 NAAQS

**Moderate  
Nonattainment**



<b>SUBPARTS 231-7 &amp; 8, SOURCE CATEGORY LIST</b>
Coal Cleaning plants (with thermal dryers)
Kraft pulp mills
Portland cement plants
Primary zinc smelters
Iron and steel mills
Primary aluminum ore reduction plants
Primary copper smelters
Municipal incinerators capable of charging more than 50 tons of refuse per day
Hydrofluoric, sulfuric or nitric acid plants
Petroleum refineries
Lime plants
Phosphate rock processing plants
Coke oven batteries
Sulfur recovery plants
Carbon black plants (furnace process)
Primary lead smelters
Fuel conversion plants
Sintering plants
Secondary metal production plants
Chemical process plants (excluding ethanol production facilities that produce ethanol by natural fermentation included in NAICS codes 325193 or 312140)
Fossil-fuel boilers (or combination thereof) totaling more than 250 million British thermal units per hour heat input
Petroleum storage and transfer units with a total storage capacity exceeding 300,000 barrels
Taconite ore processing plants
Glass fiber processing plants
Charcoal production plants
Fossil-fuel-fired steam electric plants of more than 250 million British thermal units per hour heat input

<b>SUBPARTS 231-7 &amp; 8, REGULATED NSR CONTAMINANTS, SIGNIFICANT PROJECT/SIGNIFICANT NET EMISSION INCREASE THRESHOLDS</b>	
Regulated NSR Contaminant	Significant Project Threshold <sup>1</sup> /Significant Net Emission Increase Threshold
Carbon monoxide	100 tpy
Nitrogen oxides	40 tpy
Sulfur dioxide	40 tpy
Particulate matter	25 tpy
Particulate matter: PM-10 emissions <sup>2</sup>	15 tpy
Particulate matter: PM-2.5 emissions <sup>2</sup>	10 tpy
Ozone: as VOCs or NO <sub>x</sub>	40 tpy
Lead (elemental)	0.6 tpy
Fluorides	3 tpy
Sulfuric acid mist	7 tpy
Hydrogen sulfide (H <sub>2</sub> S)	10 tpy
Total reduced sulfur (including H <sub>2</sub> S)	10 tpy
Reduced sulfur compounds (including H <sub>2</sub> S)	10 tpy
Municipal waste combustor organics (measured as total tetra through octa-chlorinated dibenzo-p-dioxins and dibenzofurans)	3.2 x 10 <sup>-6</sup> megagrams per year (3.5 x 10 <sup>-6</sup> tpy)
Municipal waste combustor metals (measured as particulate matter)	14 megagrams per year (15 tpy)
Municipal waste combustor acid gases (measured as sulfur dioxide and hydrogen chloride)	36 megagrams (40 tpy)
Municipal solid waste landfills emissions (measured as nonmethane organic compounds)	45 megagrams (50 tpy)
Greenhouse Gas	Any increase and 75,000 tpy <sup>3,4</sup>
Any other regulated NSR contaminant	Any increase
<sup>1</sup> - project emission potential threshold <sup>2</sup> - both filterable and condensable fractions are to be included (see definitions of PM-10 and PM-2.5 in Part 200 of this Title). <sup>3</sup> - measured as CO <sub>2</sub> equivalents <sup>4</sup> - values only represent the significant project threshold as netting is not allowed for greenhouse gases.	

**SUBPARTS 231-7 & 8, GLOBAL WARMING POTENTIAL VALUES FOR CALCULATING CO<sub>2</sub> EQUIVALENTS**

<u>Greenhouse Gas</u>	<u>Global Warming Potential</u>
CO <sub>2</sub>	1
CH <sub>4</sub>	25
N <sub>2</sub> O	298
SF <sub>6</sub>	22,800
Hydrofluorocarbons	12 to 14,800 <sup>1</sup>
Perfluorocarbons	6,288 to 17,700 <sup>1</sup>

To calculate GHG emissions based on mass, the mass emissions of each of the greenhouse gases is totaled together.

To calculate GHG emissions based on CO<sub>2</sub> equivalents, the mass emissions of each of the greenhouse gases is multiplied by their respective global warming potential to get emissions on a basis of CO<sub>2</sub> equivalents and then the CO<sub>2</sub> equivalents are summed across all of the greenhouse gases emitted (See Example A-7).

<sup>1</sup> see Table A-1 to Subpart A of 40 CFR Part 98 for specific values for Hydrofluorocarbons and Perfluorocarbons