

Attachment H: Major Modification Determination Form

Applicant Name: _____

DEEP USE ONLY
App. No.: _____

Complete this form in accordance with the [instructions](#) (DEEP-NSR-INST-213) to ensure the proper handling of your application. Print or type unless otherwise noted.

Complete Attachment F: Premises Information Form (DEEP-NSR-APP-217) prior to completing this form. Complete this form if the proposed project will be located at an existing major stationary source.

Questions? Visit the [Air Permitting](#) web page or contact the Air Permitting Engineer of the Day at 860-424-4152.

Part I: Applicability

- a. Indicate the pollutant(s) for which the premises is classified as a major stationary source prior to the processing of this application package (Part VII.A of Attachment F): _____
- b. Indicate, in the table below, the pollutants the proposed project will emit: (Check all that apply)

List of Pollutants (Table 3a(k)-1)

Pollutant	Proposed Project Emits Pollutant?	Pollutant	Proposed Project Emits Pollutant?
CO	<input type="checkbox"/>	H ₂ S	<input type="checkbox"/>
NO _x (as an ozone precursor)	<input type="checkbox"/>	Total Reduced Sulfur (Including H ₂ S)	<input type="checkbox"/>
NO _x (as a PM _{2.5} precursor)	<input type="checkbox"/>	Sulfuric Acid Mist	<input type="checkbox"/>
NO _x (NO _x NAAQS)	<input type="checkbox"/>	Fluorides	<input type="checkbox"/>
SO ₂ (as a PM _{2.5} precursor)	<input type="checkbox"/>	Lead	<input type="checkbox"/>
SO ₂ (SO ₂ NAAQS)	<input type="checkbox"/>	Mercury	<input type="checkbox"/>
PM	<input type="checkbox"/>	Municipal Waste Combustor Organics (measured as total tetra-through octachlorinated dibenzo-p-dioxins and dibenzofurans)	<input type="checkbox"/>
PM _{2.5}	<input type="checkbox"/>	Municipal Waste Combustor Metals (measured as particulate matter)	<input type="checkbox"/>
PM ₁₀	<input type="checkbox"/>	Municipal Waste Combustor Acid Gases (measured as sulfur dioxide and hydrogen chloride)	<input type="checkbox"/>
VOC	<input type="checkbox"/>		

Complete Parts II through V of this form as applicable for those pollutants that are checked in Part I.b above.

Part II: Basis

Provide the following information to determine the 5-year contemporaneous period for the major modification review.

Proposed Project Commence Construction Date		
Five Years prior to the Proposed Commence Construction Date		...to the start of actual operation of the Proposed Project is the 5-year contemporaneous period for emissions increases and decreases to be used in Part IV of this form.
NOTE: The 5-year contemporaneous period may shift if construction does not commence by the proposed construction date.		

Part III: Total Project Emissions Increase

Provide the following information for the total project. Calculate the *Total Project Emissions Increase* for the subject pollutant.

Pollutant	Total Project Proposed Potential Emissions (tpy)	Total Project 2-yr Actual Emissions, if modification (tpy)	Total Project Emissions Increase (tpy)	Significant Emission Rate Threshold (RCSA §22a-174-3a(k), Table 3a(k)-1)	Is the TOTAL PROJECT EMISSIONS INCREASE equal to or greater than the SIGNIFICANT EMISSION RATE THRESHOLD?
CO				100	<input type="checkbox"/> Yes <input type="checkbox"/> No
NOx (as an ozone precursor)				25	<input type="checkbox"/> Yes <input type="checkbox"/> No
NOx (as a PM _{2.5} precursor)				40	<input type="checkbox"/> Yes <input type="checkbox"/> No
NOx (NOx NAAQS)				40	<input type="checkbox"/> Yes <input type="checkbox"/> No
SO ₂ (as a PM _{2.5} precursor)				40	<input type="checkbox"/> Yes <input type="checkbox"/> No
SO ₂ (SO ₂ NAAQS)				40	<input type="checkbox"/> Yes <input type="checkbox"/> No
PM				25	<input type="checkbox"/> Yes <input type="checkbox"/> No
PM _{2.5}				10	<input type="checkbox"/> Yes <input type="checkbox"/> No
PM ₁₀				15	<input type="checkbox"/> Yes <input type="checkbox"/> No
VOC				25	<input type="checkbox"/> Yes <input type="checkbox"/> No
Hydrogen Sulfide (H ₂ S)				10	<input type="checkbox"/> Yes <input type="checkbox"/> No
Total Reduced Sulfur (Including H ₂ S)				10	<input type="checkbox"/> Yes <input type="checkbox"/> No
Reduced Sulfur Compound (including H ₂ S)				10	<input type="checkbox"/> Yes <input type="checkbox"/> No
Sulfuric Acid Mist				7	<input type="checkbox"/> Yes <input type="checkbox"/> No
Fluorides				3	<input type="checkbox"/> Yes <input type="checkbox"/> No
Lead				0.6	<input type="checkbox"/> Yes <input type="checkbox"/> No
Mercury				0.1	<input type="checkbox"/> Yes <input type="checkbox"/> No
Municipal Waste Combustor Organics (measured as total tetra-through octachlorinated dibenzo-p-dioxins and dibenzofurans)				3.5 x 10 ⁻⁶	<input type="checkbox"/> Yes <input type="checkbox"/> No
Municipal Waste Combustor Metals (Measured as particulate matter)				15	<input type="checkbox"/> Yes <input type="checkbox"/> No
Municipal Waste Combustor Acid Gases (Measured as sulfur dioxide and hydrogen chloride)				40	<input type="checkbox"/> Yes <input type="checkbox"/> No

The Total Project 2- yr Actual Emissions must be based on actual emissions for the two years immediately preceding the proposed modification. New units would enter a "0" since they did not previously exist. If the most recent two year period was not selected as the representative two year period for actual emissions above, check here and submit written justification for using a period other than the most recent two years of actual emissions as Attachment 213-A.

Attachment 213-A

If, in the table above, the answer to the last column is “No”: (Is the total project emissions increase equal to or greater than the significant emission rate threshold?)

The pollutant does not trigger a major modification and the major modification determination for this pollutant is complete. **Do not complete Parts IV through V.**

For NOx or VOC, if the premises is currently major for such pollutant, complete *Attachment J – Non-Attainment Review Form* to determine if the source is subject to non-attainment review.

If, in the table above, the answer to the last column is “Yes”: (Is the total project emissions increase equal to or greater than the significant emission rate threshold?)

Continue on to Parts IV through V for the subject pollutant.

Part IV: Contemporaneous Creditable Emissions Increases and Decreases

Provide the following information for all contemporaneous creditable emissions increases and decreases during the 5-year contemporaneous period determined in Part II. Calculate the *Total Contemporaneous Increases/Decreases* for the subject pollutant and enter the results in Part V. Duplicate this page if necessary.

Change Type (NEW, MOD, REM, PBR, DB)	Equipment Description	License No. or Regulation	Date of Change	Pollutants (tpy)										
				New ACT	2-yr ACT	New ACT	2-yr ACT	New ACT	2-yr ACT	New ACT	2-yr ACT	New ACT	2-yr ACT	
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Totals (tpy)														
TOTAL CONTEMPORANEOUS INCREASES/DECREASES (tpy) (New ACT – 2-yr ACT)														

The 2-yr ACT emissions for each unit listed in Part II.B must be based on the average actual emissions for the two years immediately preceding the change. New units would enter a "0" since they did not previously exist. If the most recent two year period was not selected as the representative two year period for actual emissions for any changed unit, check here and submit written justification for using a period other than two years of actual emissions immediately preceding the change as Attachment 213-B.

Attachment 213-B

Part V: Emissions Summation

Add the *Total Project Emission Increase* value from Part III of this form to the *Total Contemporaneous Increases/Decreases* value from Part IV of this form to calculate the *Net Emissions Increase* for the subject pollutant.

Pollutant	Total Project Emissions Increase (tpy)	Total Contemporaneous Increases/Decreases	Net Emissions Increase	Significant Emission Rate Threshold (RCSA §22a-174-3a(k), Table 3a(k)-1)	Is NET EMISSIONS INCREASE equal to or greater than SIGNIFICANT EMISSION RATE THRESHOLD?
					<input type="checkbox"/> Yes <input type="checkbox"/> No
					<input type="checkbox"/> Yes <input type="checkbox"/> No

If, in the table above, the answer to the last column is “No” for *all* pollutants: (Is net emissions increase equal to or greater than significant emission rate threshold?)

This project **is not** considered a major modification for any pollutant.

For NO_x or VOC, if the premises is currently major for such pollutant, complete *Attachment J – Non-Attainment Review Form* to determine if the source is subject to non-attainment review.

If, in the table above, the answer to the last column is “Yes” for *any* pollutant: (Is net emissions increase equal to or greater than significant emission rate threshold?)

This project **is** considered a major modification for each pollutant indicated as such above.

For NO_x or VOC, complete *Attachment J: Non-Attainment Review Form* (DEEP-NSR-APP-215).

If the net emissions increase for NO_x is greater than 40 tpy, also complete *Attachment I: Prevention of Significant Deterioration of Air Quality (PSD) Program Form* (DEEP-NSR-APP-216).

For all other pollutants, complete *Attachment I: Prevention of Significant Deterioration of Air Quality (PSD) Program Form* (DEEP-NSR-APP-216).