

Attachment I: Prevention of Significant Deterioration of Air Quality (PSD) Program Form

DEEP USE ONLY
App. No.: _____

Applicant Name: _____

Complete this form in accordance with the instructions (DEEP-NSR-INST-216) to ensure the proper handling of your application. Print or type unless otherwise noted.

Complete a separate form for each unit that is part of this application package.

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

Note: This form is not required if Current Premises Potential Emissions and Proposed Allowable Emissions (from Part VII of *Attachment F: Premises Information Form - DEEP-NSR-APP-217*) from this project are each less than major source thresholds for each pollutant. (i.e. an existing minor premises adds a minor source which results in the premises becoming a new major source.)

If the proposed project is a modification at an existing major stationary source, first complete the *Major Modification Determination Form (DEEP-NSR-APP-213)*.

Part I: Applicability

A. Is this project a new major stationary source for any attainment pollutants?

Yes No

B. Is this project a major modification to an existing major stationary source for any attainment pollutant?

Yes No

C. Indicate the pollutants for which the project emissions¹ exceed the significant emission rate thresholds below. (Check all that apply)

Pollutant	Project Proposed Emissions (TPY)	Significant Emission Rate Threshold from Table 3a(k)-1* (TPY)	Project Emissions ≥ 3a(k)-1 Threshold (Check Yes or No)
CO		100	<input type="checkbox"/> Yes <input type="checkbox"/> No
NOx		25	<input type="checkbox"/> Yes <input type="checkbox"/> No
SO2		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
H ₂ S		10	<input type="checkbox"/> Yes <input type="checkbox"/> No
Reduced Sulfur Compounds (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 (MWC) Organics		3.5x10 ⁻⁶	<input type="checkbox"/> Yes <input type="checkbox"/> No
MWC Metals		15	<input type="checkbox"/> Yes <input type="checkbox"/> No
MWC Acid Gases		40	<input type="checkbox"/> Yes <input type="checkbox"/> No
CO ₂ e ²		75,000	<input type="checkbox"/> Yes <input type="checkbox"/> No

¹ This will be the emissions indicated in Part VII.B of the *Premises Information Form (DEEP-NSR-APP-217)*.

² CO₂e threshold is not listed in Table 3a(k)-1.

D. Indicate the pollutants for which net emissions increase, as indicated by completing the Major Modification Determination Form (DEEP-NSR-APP-213), exceeds the significant emission rate thresholds below. (Check all that apply)

Pollutant	Net Emissions Increase (TPY)	Significant Emission Rate Threshold from Table 3a(k)-1* (TPY)	Net Emissions Increase ≥ 3a(k)-1 Threshold (Check Yes or No)
CO		100	<input type="checkbox"/> Yes <input type="checkbox"/> No
NO _x		25	<input type="checkbox"/> Yes <input type="checkbox"/> No
SO ₂		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
H ₂ S		10	<input type="checkbox"/> Yes <input type="checkbox"/> No
Reduced Sulfur Compounds (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 (MWC) Organics		3.5x10 ⁻⁶	<input type="checkbox"/> Yes <input type="checkbox"/> No
MWC Metals		15	<input type="checkbox"/> Yes <input type="checkbox"/> No
MWC Acid Gases		40	<input type="checkbox"/> Yes <input type="checkbox"/> No
CO ₂ e ³		75,000	<input type="checkbox"/> Yes <input type="checkbox"/> No

³ CO₂e net emissions will need to be determined as it was not required or calculated on the *Major Modification Determination Form (DEEP-NSR-APP-213)*.

For a new source, the project is subject to PSD review for each pollutant that is checked “Yes” in Part 1.C above.

For a modification, the project is subject to PSD review for each pollutant that is checked “Yes” in Part 1.C and Part 1.D above.

For CO₂e, PSD review is only required if “Yes” was checked for one or more other pollutants listed in the above tables.

If no pollutants were checked yes in Part 1.C or Part 1.D, then the proposed project is not subject to PSD review.

Part II: Attachments

Complete this part for each pollutant subject to PSD review as indicated in Part I of this form.

Please check the attachments being submitted as verification that all applicable attachments have been submitted with this application form. When submitting such documents, please label the documents as indicated in this Part (e.g., Attachment 216-A, etc.) and be sure to include the applicant’s name. All Attachments are **REQUIRED**.

<p>Best Available Control Technology (BACT) Determination</p> <p>Submit a BACT analysis for each pollutant subject to PSD review. The owner or operator of any source subject to PSD shall install BACT as approved by the commissioner. Please complete <i>Attachment G: BACT Determination Form</i> (DEEP-NSR-APP-214) and attach it as Attachment 216-A.</p> <p>Include a detailed description as to what system of continuous emission reduction is planned for the subject source or modification, emission estimates, or any other information necessary to demonstrate that BACT will be applied. [RCSA sections 22a-174-3a(k)(4); -3a(k)(8)(A)(v)]</p>	<p><input type="checkbox"/> Attachment 216-A</p>
<p>Air Quality Analysis</p>	
<p>Ambient Monitoring Analysis</p> <p>Submit an analysis of the effect on ambient air quality in the area of the subject source or modification for pollutants that have allowable emissions in excess of the amount listed in Table 3a(k)-1 of RCSA section 22a-174-3a(k) <u>or</u> those listed in RCSA section 22a-174-24. The analysis shall meet the requirements of RCSA section 22a-174-3a(k)(5). [RCSA section 22a-174-3a(k)(5)]</p>	<p><input type="checkbox"/> Attachment 216-B</p>
<p>Source Impact Analysis</p> <p>Submit a source impact analysis of the effects on ambient air quality in the area of the subject source or modification for pollutants that will have an impact on air quality equal to or greater than any amount listed in Table 3a(i)-1 of RCSA section 22a-174-3a(i) or any applicable maximum allowable increase above baseline concentration established in Table 3a(k)-2 of RCSA section 22a-174-3a(k). The analysis shall meet the requirements of RCSA section 22a-174-3a(k)(6). [RCSA section 22a-174-3a(k)(6)]</p>	<p><input type="checkbox"/> Attachment 216-C</p>
<p>Ambient Air Quality Analysis</p> <p>Submit an ambient air quality analysis in accordance with RCSA section 22a-174-3a(i), of the effect of the pollutants listed in Table 3a(k)-1 of RCSA section 22a-174-3a(k). [RCSA section 22a-174-3a(k)(7)]</p>	<p><input type="checkbox"/> Attachment 216-D</p>

Part III: Attachments (continued)

Additional Source Information	
Visibility, Soils, Vegetation and Growth Analysis Submit an analysis of the impairment to visibility, soils, and vegetation that would result from construction and operation of the subject source or modification, and an analysis of the general commercial, residential, industrial and other associated growth. The applicant does not need to provide an analysis of the impact on vegetation having no significant commercial or residential value. [RCSA section 22a-174-3a(k)(8)(A)(i)]	<input type="checkbox"/> Attachment 216-E
Growth and Ambient Air Impact Analysis Submit an analysis of the ambient air quality impact projected for the area as a result of the general commercial, residential, industrial, and other growth associated with the subject source or modification. [RCSA section 22a-174-3a(k)(8)(A)(ii)]	<input type="checkbox"/> Attachment 216-F
Project Description and Operating Schedule Submit a description of the nature, location, design capacity and typical operating schedule of the subject source or modification, including specifications and drawings showing its design and plant layout. [RCSA section 22a-174-3a(k)(8)(A)(iii)]	<input type="checkbox"/> Attachment 216-G
Construction Schedule Submit a schedule for construction of the subject source or modification. [RCSA section 22a-174-3a(k)(8)(A)(iv)]	<input type="checkbox"/> Attachment 216-H