Instructions for Attachment E208
CONCRETE, ASPHALT CONCRETE, MINERAL PROCESSING OR OTHER SIMILAR EQUIPMENT
Supplemental Application Form

(Instructions for Completing DEEP-NSR-APP-208)

All applications for a permit to construct and operate a stationary source shall include the information listed in Regulations of Connecticut State Agencies (RCSA) section 22a-174-3a(c). This supplemental application form shall be completed for any new concrete, asphalt concrete, mineral processing plant or any other similar equipment.

Note: Certain nonmetallic mineral processing equipment may be operated pursuant to RCSA section 22a-174-3b or -3c in lieu of a permit to construct and operate pursuant to RCSA section 22a-174-3a. The Regulations are available on the Department web site.

Complete a separate form for *each* processing plant. E*ach processing plant is considered a unit while the series of emission points which make up that processing plant are considered subunits*. Complete each item as appropriate. If a specific item does not apply to your situation indicate N/A (not applicable). If additional space is needed to answer a question stated in the application, attach separate sheet(s) as necessary, clearly identifying the applicant name, form name and Part number, and unit number.

Note: The data provided in these forms will be used to define the operating limits in your permit.

Questions? Visit the Air Permitting web page or contact the Air Permitting Engineer of the Day at 860-424-4152 (between 8:30 AM and 4:30 PM, Monday through Friday).

Applicant Name: Provide the applicant name as previously indicated on the *Permit Application for Stationary Sources of Air Pollution* form (DEEP-NSR-APP-200).

Unit Number: Provide the unit number of the subject unit as previously assigned on the *Permit Application for Stationary Sources of Air Pollution* form (DEEP-NSR-APP-200). Please use a consistent reference number for each unit throughout the application package.

Part I: General

Type of Operation - Indicate the type of operation. If other, specify the type.

Equipment Manufacturer and Model Number – Provide the manufacturer and model number of the equipment. This information can be obtained from the equipment manufacturer.

Construction Date - Provide the actual or anticipated construction date of the equipment.

Begin actual construction means in general, initiation of physical on-site construction activities on an emissions unit which are of a permanent nature. Such activities include, but are not limited to, installation of building supports and foundations, laying of underground pipework, and construction of permanent storage structures. With respect to a change in method of operating this term refers to those on-site activities other than preparatory activities which mark the initiation of the change.

Is this unit subject to Title 40 CFR Part 60, NSPS?: Indicate if the unit is subject to Title 40 of the Code of Federal Regulations (CFR) Part 60, New Source Performance Standards (NSPS). If yes, specify the appropriate subpart(s).

Is this unit subject to Title 40 CFR Part 63, MACT?: Indicate if the unit is subject to Title 40 CFR Part 63, National Emissions Standards for Hazardous Air Pollutants (NESHAP). If yes, specify the appropriate subpart(s).

Title 40 CFR Part 60 and Title 40 CFR Part 63 regulations can be found on the U.S. Government Printing Office Website.

Maximum Operating Schedule - Provide the maximum anticipated operating schedule in hours per day, and hours per year.

Note: Parts II through V are operation specific. Complete only that part which applies to the subject unit.

Part II: Concrete Plant Only

Type of Plant - Indicate if the type of the subject concrete plant.

Production Rate of Concrete Information –

Maximum Hourly Rated Capacity - Provide the maximum production rate of concrete in cubic yards per hour, taking into account the maximum design hourly processing rate of each unit that makes up the plant. This information can be obtained from the equipment manufacturer.

Production Rate of Concrete - Maximum Annual Production - Provide the maximum anticipated annual production rate of concrete in cubic yards per year.

Part III: Asphalt Concrete Plant Only

Note: The methodology in AP-42 Section 11.1 for Hot Mix Asphalt Plants is to be used to determine emissions. Include emissions from the following sources, as applicable: the dryer, the asphalt heater, load-out, yard and silo filling.

Type of Plant - Indicate the type of the subject asphalt concrete plant. A batch operation is one where discrete batches of dried aggregate and asphalt are mixed in the pug mill. A continuous operation is one where the aggregate and asphalt are mixed outside the dryer drum. A drum mix operation is one where the aggregate and asphalt are mixed in the dryer drum.

Was an asphalt concrete facility in operation at this location prior to December 31, 1997? - Indicate if an asphalt concrete facility was in operation at this location prior to December 31, 1997. If the response is "No", please submit a plot plan showing the linear distance from any hospital, nursing home, school, area of critical environmental concern, watercourse or area occupied by residential housing as Attachment E208-C. Such distance shall be measured from the outermost perimeter of such facility to the outermost point of such zones. (CGS section 22a-196)

Maximum Hourly Rated Capacity - Provide the maximum production rate of asphalt concrete in tons per hour, taking into account the maximum design hourly processing rate of each unit that makes up the plant. This information can be obtained from the equipment manufacturer.

Maximum Annual Production - Provide the maximum anticipated annual production rate of asphalt concrete in tons per year.

Aggregate Dryer Information

Burner Maximum Rated Capacity - Provide the burner's maximum hourly design heat input in MMBTU/hour. This information can be obtained from the equipment manufacturer.

Fuel Type - Provide the type of fuel to be burned by the aggregate dryer (e.g., No. 2 fuel oil, natural gas, etc.).

% Sulfur - Fuel oil only - Provide the maximum sulfur content by percent weight on a dry basis. This information can be obtained from the fuel dealer.

Maximum Hourly Firing Rate - Provide the burner's maximum hourly firing rate in gallons of fuel oil or cubic feet of natural

gas. This information can be obtained from the equipment manufacturer.

Maximum Annual Consumption - Provide the maximum anticipated annual fuel usage rate in gallons of fuel oil or cubic feet of natural gas.

Units – Provide the unit of measure used for the subject fuel, gallons or cubic feet.

Asphalt Heater Information

Burner Maximum Rated Capacity - Provide the burner's maximum hourly design heat input in MMBTU/hour. This information can be obtained from the equipment manufacturer.

Fuel Type - Provide the type of fuel to be burned by the asphalt heater (e.g., No. 2 fuel oil, natural gas, etc.).

% Sulfur – Fuel oil only - Provide the maximum sulfur content by percent weight on a dry basis. This information can be obtained from the fuel dealer.

Maximum Hourly Firing Rate - Provide the burner's maximum hourly firing rate in gallons of fuel oil or cubic feet of natural gas. This information can be obtained from the equipment manufacturer.

Maximum Annual Consumption - Provide the maximum anticipated annual fuel usage rate in gallons of fuel oil or cubic feet of natural gas.

Units – Provide the unit of measure used for the subject fuel, gallons or cubic feet.

Load-Out Information

Load-Out Height, above grade - Provide the height above grade at which the asphalt concrete is loaded into the trucks in feet.

Load-Out Area (chute exit area) - Provide the chute exit area in square feet.

Storage Silo Information

If more space is needed check the appropriate box and attach additional sheets providing the required information.

Number of Storage Silos - Provide the number of storage silos.

Percent of Production to Silo(s) - Provide the percent of total production that will be sent to the silo(s) for storage.

Silo Number: Provide a unique silo number for each silo.

Maximum Silo Capacity - Provide the maximum storage capacity of the subject silo in tons.

Silo Height, above grade - Provide the height above grade of the subject silo in feet.

Silo Diameter - Provide the diameter of the subject silo in feet.

Part IV: Mineral Processing Plant Only

Type of Plant - Indicate the type of the subject mineral processing plant. A fixed plant is one that is attached by a cable, chain, etc. to an anchor, slab or structure. A portable plant is one that is mounted on a chassis or skids and may be moved from site to site.

Location - If the plant is portable, provide the initial operating location.

Type of Material Processed – Indicate if the material is nonmetallic or metallic and describe the type of material processed.

Power Source – Indicate if the plant is powered by burning fuel or is powered by electricity.

Equipment Information

Equipment and Subunit Number - For each type of equipment listed, assign a subunit number that correlates with the unit number assigned to the mineral processing plant. For example, if the unit number assigned to the mineral processing plant is U5, the subunit numbers should be U5a, U5b, etc. Also, if "other" equipment is used, specify the type (e.g., conveyors, etc.).

Manufacturer and Model Number - Provide each subunit's manufacturer and model number.

Number of Units - Provide the quantity of each subunit.

Maximum Throughput - Rated Capacity in Tons Per Hour - Provide the maximum hourly design throughput capacity of each subunit in tons per hour. This information can be obtained from the equipment manufacturer.

Maximum Throughput - Tons Per Year - Provide the maximum anticipated annual throughput of each subunit in tons per year.

Number of Conveyor Transfer Points - Provide the total number of conveyor transfer points in the plant.

Loadout - Indicate the type of loadout. Provide the maximum loadout throughput in tons per hour and tons per year.

Type of Control - Indicate if a wet suppression system is used to control particulate matter emissions. If used, indicate the type, number of nozzles, location of nozzles, liquid flow rate and mark the subunits which are equipped with a wet suppression system with a "WS" on the process flow diagram in Attachment E208-A.

Thermal Dryer Information

Burner Maximum Rated Capacity - Provide the burner's maximum hourly design heat input in MMBTU/hour. This information can be obtained from the equipment manufacturer.

Fuel Type - Provide the type of fuel to be burned by the thermal dryer (e.g., No. 2 fuel oil, natural gas, etc.).

% Sulfur – Fuel oil only - Provide the maximum sulfur content by percent weight on a dry basis. This information can be obtained from the fuel dealer.

Maximum Hourly Firing Rate - Provide the burner's maximum hourly firing rate in gallons of fuel oil or cubic feet of natural gas. This information can be obtained from the equipment manufacturer.

Maximum Annual Consumption - Provide the maximum anticipated annual fuel usage rate in gallons of fuel oil or cubic feet of natural gas.

Units – Provide the unit of measure used for the subject fuel, gallons or cubic feet.

Part V: Other Type of Processing Plant Only

Processing Plant Description - Describe the type of processing plant and the equipment used.

Type of Material Processed - Describe the type of material processed.

Production Rate of Material Processed Information

Maximum Hourly Rated Capacity - Provide the maximum production rate of the material processed in tons per hour, taking into account the maximum design hourly processing rate of each subunit that makes up the plant. This information can be obtained from the equipment manufacturer.

Maximum Annual Production - Provide the maximum anticipated annual production in tons per year.

Burner Information

Burner Maximum Rated Capacity - Provide the burner's maximum hourly design heat input in MMBTU/hour. This information can be obtained from the equipment manufacturer.

Fuel Type - Provide the type of fuel to be burned by the burner (e.g., No. 2 fuel oil, natural gas, etc.).

% Sulfur – Fuel oil only - Provide the maximum sulfur content by percent weight on a dry basis. This information can be obtained from the fuel dealer.

Maximum Hourly Firing Rate - Provide the burner's maximum hourly firing rate in gallons of fuel oil or cubic feet of natural gas. This information can be obtained from the equipment manufacturer.

Maximum Annual Consumption - Provide the maximum anticipated annual fuel usage rate in gallons of fuel oil or cubic feet of natural gas.

Units – Provide the unit of measure used for the subject fuel, gallons or cubic feet.

Part VI: Attachments

This section offers a checklist of all the attachments necessary to complete this application. Not all attachments may be applicable to the application. Where the checklist states "**IF APPLICABLE**", your particular situation will determine if the attachment is required.

Check the appropriate box by each attachment being submitted as verification that all applicable attachments have been submitted. Please label all attachments as referenced in the permit application form and these instructions and be sure to include the name of the applicant as indicated on the application form.

Attachment E208-A: Process Information and Flow Diagram, REQUIRED

Submit a process flow diagram indicating all related equipment, air pollution control equipment and stacks, as applicable. Identify all materials entering and leaving each such device indicating quantities and parameters relevant to the proper operation of the device. Indicate all monitoring devices and controls.

Attachment E208-B: Manufacturer Information, REQUIRED

Submit copies of the manufacturer specification sheets for the unit, the air pollution control equipment and the monitoring systems.

Attachment E208-C: CGS section 22a-196 Plot Plan, IF APPLICABLE

Submit a plot plan showing the linear distance from the asphalt concrete facility to any hospital, nursing home, school, area of critical environmental concern, watercourse or area occupied by residential housing. Such distance shall be measured from the outermost perimeter of such facility to the outermost point of such zones. (CGS section 22a-196)