



## ***Facts about* NSPS for Grain Elevators**

In an effort to regulate new sources of air pollution and ensure that those sources pollute less than older sources, the U.S.

Environmental Protection Agency (EPA) has put forth the New Source Performance Standards (NSPS), affecting a variety of new or modified equipment and facilities.

In part, the performance standards place limits on emissions and require performance testing, recordkeeping, reporting, and monitoring. This fact sheet examines the performance standards affecting grain storage facilities, as found in NSPS subpart DD, Standards of Performance for Grain Elevators, Code of Federal Regulations (CFR), Title 40, Part 60, Sections 60.300 to 60.304.

### **What is Subpart DD?**

The subpart DD standards of performance are a set of requirements governing the storage of grain at any grain elevator or grain terminal elevator.

### **What is meant by the terms “grain storage elevator” and “grain terminal elevator”?**

A grain storage elevator is any grain elevator with a permanent storage capacity of one million bushels or more, that is located at any wheat flour mill, wet corn mill, dry corn mill (for human consumption), rice mill, or soybean extraction plant.

A grain terminal elevator is any grain elevator with a permanent storage capacity of more

Attached to this fact sheet is a completed, generic Form CD-01. If you are a permit applicant for a grain elevator subject to NSPS Subpart DD, you may use this attached generic CD-01 to complete your permit application. Since the attached CD-01 represents a generic facility, you may need to modify it to represent your actual facility.

than 2.5 million bushels, except those located at animal food manufacturers, pet food manufacturers, cereal manufacturers, breweries, and livestock feedlots.

### **Does Subpart DD apply to my facility?**

Standards in subpart DD apply to any grain terminal elevator or grain storage elevator (as previously defined) for which construction, modification, or reconstruction was started after August 3, 1978.

### **What portions of a grain elevator are subject to Subpart DD?**

The DD standard of performance applies to truck, barge, railcar, and ship loading and unloading stations; grain dryers; and all grain handling operations.

### **Do I have to conduct any performance testing for Subpart DD?**

Yes. Within 60 days after the affected facility reaches the maximum production rate at

which it will be operated, but not later than 180 days after the initial start-up of the facility, the owner or operator must conduct performance test(s) and furnish the MPCA with the written results. Also, the Commissioner may require additional tests.

Affected facilities that have already conducted performance testing should not have to repeat them, but affected facilities that have neglected to conduct required performance tests should do them as soon as possible.

The testing has to be conducted using EPA Reference Method 9 or Reference Method 5, as appropriate.

## Is there anything else I should know about the NSPS regulations?

If you are subject to Subpart DD, or any other subpart of the NSPS, you are automatically subject to the NSPS General Provisions. The General Provisions describe the performance testing, recordkeeping, reporting, and monitoring provisions that apply to every NSPS affected source. The NSPS General Provisions are found in Subpart A of 40 CFR § 60.

The MPCA has a fact sheet on the NSPS General Provisions. If you would like a copy of the fact sheet, contact the Air Quality Document Coordinator at the number listed at the end of this fact sheet.

## What emission limitations are specified in Subpart DD?

The following emission standards of particulate matter apply to each of the listed affected facilities:

Affected Facility	Emission Limit
Column dryer with column plate perforation exceeding 2.4 mm diameter	not greater than 0% opacity
Rack dryer in which exhaust gases pass through a screen filter coarser than 50 mesh	not greater than 0% opacity
truck unloading station	<ul style="list-style-type: none"> <li>fugitive emissions not greater than 5% opacity</li> <li>process emissions not greater than 0% opacity and 0.01 gr/dscf</li> </ul>
railcar unloading station	<ul style="list-style-type: none"> <li>fugitive emissions not greater than 5% opacity</li> <li>process emissions not greater than 0% opacity and 0.01 gr/dscf</li> </ul>
railcar loading station	<ul style="list-style-type: none"> <li>fugitive emissions not greater than 5% opacity</li> <li>process emissions not greater than 0% opacity and 0.01 gr/dscf</li> </ul>
truck loading station	<ul style="list-style-type: none"> <li>fugitive emissions not greater than 10% opacity</li> <li>process emissions not greater than 0% opacity and 0.01 gr/dscf</li> </ul>
barge or ship loading station	<ul style="list-style-type: none"> <li>fugitive emissions not greater than 20% opacity</li> <li>process emissions not greater than 0% opacity and 0.01 gr/dscf</li> </ul>
grain handling operation	<ul style="list-style-type: none"> <li>fugitive emissions not greater than 0% opacity</li> <li>process emissions not greater than 0% opacity and 0.01 gr/dscf</li> </ul>

## What changes can I make to my grain elevator that are not considered modifications under NSPS?

The following physical or operational changes are not by themselves considered modifications of an existing facility:

- The addition of gravity loadout spouts to existing grain storage or grain transfer bins.
- The installation of automatic grain weighing scales.
- Replacement of motor and drive units driving existing grain handling equipment.
- The installation of permanent storage capacity with no increase in hourly grain handling capacity.

For complete information regarding NSPS modifications, please read the General Provisions of NSPS (40 CFR § 60, Subpart A) or the fact sheet, available from the Document Coordinator.

## Although I am subject to Subpart DD, am I still eligible for a Registration Permit?

If the sum of the Potential to Emit (PTE) of all emission units at your facility is below the levels for pollutants shown in the following table, you may qualify for an Option A Registration Permit:

<u>Pollutant</u>	<u>Tons Per Year (TPY)</u>
PM	100
SO <sub>2</sub>	50
VOC	100
a single HAP	10
Combined HAPs	25
PM <sub>10</sub>	25
NO <sub>x</sub>	100
CO	100
Lead	0.5

If the PTE for any one pollutant from all emission units at your facility is above the levels shown in the table above, you may still be eligible for an Option D Registration Permit if the total actual emissions for the previous 12 months from all emission units is below the thresholds listed in the following table:

<u>Pollutant</u>	<u>TPY</u>
PM	50
SO <sub>2</sub>	50
VOC	50
a single HAP	5
Combined HAPs	12.5
PM <sub>10</sub> (attainment area)	50
PM <sub>10</sub> (nonattainment area)	25
NO <sub>x</sub>	50
CO	50
Lead	0.5

## Who can I call if I have questions?

For more information contact any of the following:

Permit Technical Advisor:  
(651)282-5844  
(800)646-6247

Document Coordinator:  
(651)282-5843

TTY: (651)282-5332  
(800)657-3864

MPCA Mailing Address:  
520 Lafayette Road North  
St. Paul, MN 55155-4194

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## **GENERIC CD-01 FORM FOR GRAIN ELEVATORS SUBJECT TO SUBPART DD**

The attached sample CD-01 form has been developed to assist permit applicants who are subject to New Source Performance Standards Subpart DD in filling out form CD-01 of the permit application package. This form lists the requirements of subpart DD as required in the CD-01 form. If you are an owner or operator of such a facility, you should review Subpart DD and then the requirements listed in this form to determine which requirements apply to your facility. After you have made your determination, you should transfer the appropriate requirements from this form to *your* facility-specific CD-01 application form. Since this form is generic, it may contain requirements that do not apply to your facility. Please note that the information listed in italics is to help you determine whether a limit applies to your facility. The italics information should not be transferred to your CD-01 form. Please indicate on your CD-01 form if the applicable requirement applies to a stack/vent (SV), emission unit (EU), or fugitive emission source (FS) or your entire facility.



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ion	5b)	5c)
	Requirement	Requirement Type
	<i>For column dryers with perforations greater than 2.4 mm diameter, or rack dryers with screen filter coarser than 50 mesh:</i> <b>Opacity: Not to exceed 0 percent opacity</b>	
1)	<i>For equipment other than grain dryers:</i> <b>Total Particulate Matter: Less than or equal to 0.01 gr/dscf from a stack or control equipment</b>	
2)	<i>For equipment other than grain dryers:</i> <b>Opacity: Not to exceed 0 percent opacity from a stack or control equipment</b>	
	<i>For fugitive emissions from truck unloading stations, railcar unloading stations, or railcar loading stations</i> <b>Opacity: Less than or equal to 5 percent opacity</b>	
2)	<i>For fugitive emissions from grain handling operations</i> <b>Opacity: Not to exceed 0 percent opacity</b>	
3)	<i>For fugitive emissions from truck loading stations</i> <b>Opacity: Less than or equal to 10 percent opacity</b>	
4)	<i>For fugitive emissions from barge or ship loading stations</i> <b>Opacity: Less than or equal to 20 percent opacity</b>	
1)	<i>For barge or ship unloading stations</i> <b>Unloading leg must be enclosed from the top (including the receiving hopper) to the center line of the bottom pulley and ventilation to a control device shall be maintained on both sides of the leg and the grain receiving hopper.</b>	
2)	<i>For barge or ship unloading stations</i> <b>The total rate of air ventilated shall be at least 32.1 actual cubic meters per cubic meter of grain handling capacity.</b>	